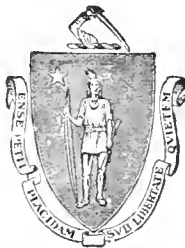


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THE AMERICAN FLORIST



America is "the Prow of the West," there may be more comfort in midships, but we are the first to... 35.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—JOHN BURTON, Philadelphia, Pa., president; J. W. C. DEAKE, Asheville, N. C., vice-president; WM. J. STEWART, 79 Milk Street, Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The eighteenth annual meeting will be held at Asheville, N. C., August 19-22, 1902.

THE AMERICAN CARNATION SOCIETY.

Annual convention at Brooklyn, N. Y., February, 1903. ALBERT M. HERR, Lancaster, Pa., secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Asheville, N. C., August 29, 1902. EDWIN LONSDALE, Chestnut Hill, Pa., Sec'y.

AMERICAN ROSE SOCIETY.

Annual meeting at call of executive committee. LEONARD BARRON, 136 Liberty St., New York, secretary.

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The Convention Programme.

The preliminary programme for the eighteenth annual convention of the Society of American Florists, to be held at Asheville, N. C., provides for the opening session at the Auditorium at 3 p. m., on Tuesday, August 19. The address of welcome on behalf of the city and the Board of Trade will be delivered by A. S. Barnard. The annual address of the president and the reports of secretary, treasurer, state vice-presidents and committees will follow. Later in the afternoon the judges of the trade exhibits will prepare their report. In the evening the president's reception will be held in the parlors of the Battery Park Hotel, with music and refreshments.

On the morning of Wednesday, following the judges' report, the subject "Developing Our Resources" will be discussed under the following sub-headings: "The Needs of the Commercial Florist in the North," by Fred. R. Mathison, Waltham, Mass.; "Remarks on the Bulb Situation," by Wm. R. Smith, Washington; "Possibilities in Bulb Culture in the South," by Prof. W. F. Massey, Raleigh, N. C. At this meeting the place for next year's convention will be selected and officers nominated.

The bowling contest will take place on the afternoon of Wednesday, and in the evening J. K. M. L. Parquhar, of Boston, will give an illustrated lecture on the growing, packing and shipping of foreign bulbs and plants for the American trade.

The subject for discussion Thursday morning will be "Marketing Cut Flowers," the wholesale and retail phases of the question being presented by Edgar Sanders and George W. Wienhoeber, of Chicago. Then the election of officers will take place, followed by action on two proposed amendments to the by-laws, both relating to auxiliary societies. One of these amendments is proposed by C. W. Ward and E. G. Hill and the other by Wm. J. Stewart and Edwin Lonsdale.

On Thursday afternoon there will be meetings of the Hail Association, the Chrysanthemum Society of America and the American Carnation Society. On the same afternoon there will be a shooting contest between teams representing the S. A. F. and the city of Asheville. In the evening J. D. Carmody, of Evansville, Ind., will discuss "The Humorous Side of the Florists' Business," and Dr. C. P. Ambler, of Asheville, the proposed Appalachian forest preserve.

Friday morning will be devoted to a

trip to Overlook Mountain and in the afternoon a carriage drive will be taken through Biltmore as guests of the Asheville Board of Trade.

Park and Outdoor Art Association.

The sixth annual meeting of the American Park and Outdoor Art Association will be held at Boston, August 5 to 7. The sessions are to be held at the beautiful new hall of the Massachusetts Horticultural Society and a most attractive programme has been arranged.

At the morning session of the opening day the business meeting of the association and auxiliary will be held. In the afternoon there will be an address by Dr. Charles W. Eliot, president of Harvard University, who will discuss "Popular Utilization of Public Reservations." J. N. Hallock, D. D., of New York, will talk on "The Influence of Beautiful Surroundings on Children." The addresses for the evening are "State Forest Reservations," by Mira Loyd Dock, of Harrisburg, Pa.; "School Garden Movement," by Dick J. Crosby, Washington, D. C.; "Water an Effective Factor in Municipal Art," by Albert Kelsey, Philadelphia.

Wednesday morning is to be devoted to an "experience meeting," the leading feature being brief addresses outlining the work of the various national associations engaged in civic improvement. In the afternoon there will be a meeting of the Woman's Auxiliary and a session for park commissioners addressed by W. B. de las Casas, Chas. E. Stratton, Geo. H. Cox and others. In the evening there will be an address on "Civic Improvement Work," by Hon. John DeWitt Warner, of New York, and J. Horace McFarland will tell of "The Forward Movement in Harrisburg."

On the morning of the third day there will be parallel business sessions of the association and the Woman's Auxiliary. In the afternoon there will be parallel sessions of the park commissioners and the school garden section. The former will be addressed by Bryan Lathrop and James Jensen, Chicago; C. C. Lancy, Rochester; J. A. Ridgeway, Minneapolis; S. A. Foster, Des Moines, and others. Leading the informal discussion on school gardens will be H. D. Hemenway, Hartford; W. A. Baldwin, Hyannis, Mass.; Ellen M. Tower, Lexington, Mass.; Geo. A. Townsend, Jr., Dayton, O.; Geo. H. Knight, New York; J. W. Spencer, Cornell University; Geo. T. Powell, Briar Cliff Manor, N. Y., and others. The conven-

tion will conclude with an evening session with the following programme: "Public Beauty and Good City Government," C. K. Woodruff, Philadelphia; "Relation of Parks to City Plan," Sylvester Baxter, Boston; "What is Municipal Art?" by Charles M. Robinson, Rochester.

A feature of the convention will be the exhibitions connected with it. At Horticultural Hall there will be an exhibition of maps and photographs of parks and landscape designs, an exhibition of photographs of school gardens especially collected by the Department of Agriculture, an exhibition of designs for artistic bill boards and an exhibition of the current literature of outdoor art. At the Public Library there will be a special exhibition of photographs of famous parks and gardens and of the literature of landscape architecture. At the Public Gardens there will be a special exhibition of tropical and sub-tropical plants, of conifers and hollies. At the Appalachian Mountain Club there will be an exhibition of photographs of mountain scenery and of views in the parks about Boston.

The committee is also preparing a long list of the attractive and inexpensive excursions that may be taken in and about Boston. Members will register for these at the time of the convention and members of the entertainment committee will accompany the parties and act as guides. Meanwhile, the following pleasant trips are suggested for the convention days.

Tuesday, visit to Museum of Fine Arts, Public Library and Public Gardens, only a moment's walk from Horticultural Hall.

Wednesday, drive through the parks as guests of Boston Park Commission.

Glimpses of Boston Park Scenery.

LONGWOOD BRIDGE.

This bridge connects the town of Brookline with Boston over the beautiful water course of Muddy river, once an eyesore worthy of its name but made beautiful by the genius of Frederick Law Olmsted. The bridge was opened three years ago. It is a beautiful 100-foot span of natural seam-faced Rockport granite. The church, the tower of which appears in the distance, is a replica of Colechester church in England. The pavilion shown in another illustration is situated on the riverway, close to Longwood bridge. It is built of Rockport granite with Dutch tiled roof. It affords a fine view up and down the Riverway and is a favorite resort for bicyclists. The river at this point is colonized by wild mallard ducks.

VIEW IN THE FENS.

The site of the Back Bay Fens was once a low, boggy salt marsh, over much of which the tide ebbed and flowed. The water has been now confined to a winding course which is fed by salt water from Charles river at every tide. About fifteen inches of new water is taken in at every tide, entering by an automatic gate at Brookline and being let off by another similar contrivance at Charlesgate. The poplars seen in the photograph reproduced were among the first trees planted on the reclaimed territory. They are appropriate, there being insufficient room for spreading trees, and they harmonize well with the surroundings.

ELLCOTT ARCH.

The circuit drive crosses this bridge, leading from the tennis house to the

now eighty-two in operation in the department. The courts are cared for by the park department, which also furnishes poles but the players are expected to furnish their own nets, balls, and so forth. Everything else, such as baths, is free.

BRIDGE AT FRANKLIN PARK.

This bridge spans a part of Scarborough pond, an artificial body of water which is colonized by wild fowl, such as mallard, black, wood, pintail, teal, and so forth. The parkway crosses the bridge. The banks are clothed with viburnums, cornuses and azaleas, and the island in the center of the pond is planted with willows.

JAMAICA POND.

This beautiful natural sheet of water is situated in Olmsted Park, Jamaica Plain. It was formerly a water supply for Boston. It comprises an area of seventy-two acres and in places is over fifty feet in depth.

POINTS OF INTEREST.

Some of the additional points of interest in Boston and vicinity may be listed as follows:

HISTORICAL.

Bunker Hill	King's Chapel
Central Burying Ground	King's Chapel Burial Ground
Concord and Lexington	
Copp's Hill Burying Ground	Liverpool Wharf
Eliot Burial Ground	Massacre, location of
Emancipation Statue	Old Corner Bookstore
Eric Statue	Old North Church
Faneuil Hall	Old South Church
Franklin Birthplace	Old State House
Granary Burial Ground	Shaw Monument
Homes of Longfellow, Lowell and Holmes	Somerville Powder House
Hancock Inn	Washington Elm

INSTITUTIONS AND BUILDINGS.

Agassiz Museum	Navy Yard
Art Museum	North Union Station
Boston Athenaeum	Perkins Institute for the Blind
Bussey Institution	Public Library
City Hall	Quincy Market
City Hospital	South Terminal Station
Court House	State House
Harvard University	Stock Exchange
Horticultural Hall	Symphony Hall
Institute of Technology	Tremont Temple
Masonic Temple	Wellesley College
New England Conservatory of Music	

PUBLIC GROUNDS

The Common	Public Garden
BOSTON PARK DEPARTMENT.	
Franklin Park	Wood Island Park
Arnold Arboretum	Charlestown Heights
Olmsted Park and Riverway	Marine Park
The Fens	Chestnut Hill
Commonwealth Avenue	Franklin Field
Charlesbank	Castle Island
	Numerous play grounds

METROPOLITAN PARK SYSTEM.

Comprising the following reservations in thirty-eight neighboring cities and towns all within a radius of thirteen miles from the State House:

Acres	Miles Long
Blue Hills..... 4,837.96	King's Beach..... .69
Middlesex Fells 3,127.97	Revere Beach..... 2.71
Stony Brook..... 163.72	Winthrop Shore..... 1.32
Beaver Brook.... 58.35	Quincy Shore..... .2
Hart's Hill..... 23.69	Nantasket Beach... 1.02
Hemlock Gorge.. 23.11	Blue Hills Parkway 2.28
Charles River Banks..... 562.84	Middlesex Fells Parkway..... 4.60
Mystic River Banks..... 289.44	Revere Beach Parkway..... 5.24
Neponset River Banks..... 928.83	Mystic Valley Parkway..... 2.90

CEMETERIES.

Mt. Auburn	Forest Hills
Mt. Hope	
HARBOR EXCURSIONS.	
Gloucester	Plymouth
Nahant	Provincetown
Nantasket	Salem Willows

BATH, ME.—Jos. M. Trott has been appointed receiver for the late firm of J. H. Ramsey & Company, dissolved by the death of one of the partners, and the business of the Kennebec Nurseries will be carried on by him for the present, under the management of P. M. Olm and Robt. Sutherland.



LONGWOOD BRIDGE AND MUDDY RIVER, BOSTON PARK SYSTEM.

Trip to Cambridge and visit to Harvard University.

Thursday, visit to Revere Beach, a great public bathing beach, reached by electric cars.

Friday, Paul Revere trip to Concord and Lexington by electric car. Fells Reservation trip by train and carriage. Charles River trip, by electric cars and launches.

The president of the American Park and Outdoor Art Association is Edward J. Parker, of Quincy, Ill., the secretary, Warren H. Manning, Boston.

tennis grounds. The house contains lockers and shower baths for men and women. The bridge is built of boulders set in cement, with the pockets filled with loam in which are planted rhubies, celandines and Euponymus radicans principally, with a few alpine plants.

THE TENNIS GROUNDS.

Tennis is exceedingly popular with the frequenters of the Boston parks and grows more so every year. There are forty-five courts in the section shown in the photograph reproduced and there are



A GLIMPSE OF THE BACK BAY FENS, BOSTON PARK SYSTEM.

WITH THE GROWERS.

HENRY A. DREER, RIVERTON, N. J.

This is the place for inspiration. One can scarcely visit this large establishment and be conducted about by that great plantsman who is director general without adding considerably to his knowledge and absorbing some of Mr. Eisele's enthusiasm. No matter how often a visit is made, there always seems to be something new or a matter of interest that had been overlooked before. This can easily happen, as many visits are necessary to know all the merits of the place.

At the time of my last visit the grand annual clean-up had just been finished. Do not think for a moment that there is a chaotic condition from this time on until next July, for this is not the case; the place is always as well kept and orderly as it is possible to be where there is so much moving of stock, packing for shipment and other changes incidental to the business of such a large concern.

At this time there did not seem to be anything out of place in the houses and about the grounds the same order was prevalent everywhere. Mr. Eisele explained that while they try at all times to have things looking ship-shape, for sake of economy as well as for appearance, the last week of June is given to getting every part of the place in the best possible order, as it is much easier to take account of stock when plants are all straight in the rows and the rows of equal length. As in many other large places each house, or range of houses, or separate department, has its foreman, or is given in charge of some one who is held responsible and as a rule such heads take a pride in each keeping his charge up to the mark. Stock-taking occupies the first one or two days in July, one day generally sufficing to do the work, so perfect is the system.

It is difficult to say which part of the greenhouses or grounds was the most interesting, but probably the several houses of the new *Pandanus Sanderi* should receive first mention, as this sterling novelty is occupying considerable of their attention. It is not to be sent out until 1903, when a large stock will have

been worked up and it will be offered at a popular price, so that all may get in on the ground floor if they so desire. The stock is looking very well and holding its own with the old *P. Veitchii*, a block of which is in the same range.

A novel plan for securing bottom heat under cuttings was being used in this range. Double burlap was hung around the sides of a table underneath which was placed an oil stove such as is used to keep frost out of the house in an emergency. This kept up a gentle bottom heat which was regular and easily controlled and will no doubt be found very useful at seasons before the regular fires are going and after they are out.

In the fern houses that grand variety, *Cybotium Scheidei*, is to be seen in large quantities and in most excellent condition. This is a great acquisition to the list of decorative plants for florists' use and, while it will not stand as much knocking around as the *kentia*, it is much tougher than it looks and will stand abuse even better than the popular Bos-

ton fern. As a finish to a decoration it has no equal and its use for this purpose is rapidly growing in the large cities.

A fine batch of *Adiantum Farleyense* was coming on. Mr. Eisele says they nearly always have orders for more than they can supply of this stock. Out in the frames where most of the small stock is grown on during the summer, the inventory showed over 300,000 which are destined to grace dinner tables the coming winter.

Near this summer colony of ferns a large range of about 60,000 feet of the Dietsch patent short-roof greenhouses is going up, to be used during the winter for the fall importation of azaleas. Their trade in these plants is increasing rapidly and it was necessary to have a place to store them for spring delivery. With these facilities they will be able to deliver their Easter stock in the exact condition desired, which is so important to all concerned.

In the palm ranges the stock never looked better. Tens of thousands each of *kentias*, *arecas* and *latanias* in various sizes were to be seen and from the 2-inch to the 12-inch, and even larger sizes, they displayed a vigor that must have been gratifying to those in charge. A great many young cocoses are coming on, several houses of them. They make this a feature, as it fits in nicely with fern orders. When asked about it Mr. Eisele said he does not favor sowing each seed in a pot by itself, as some do, to avoid the loss in removing the young plants. Mr. Eisele thinks that the seed does not come up regularly enough to warrant this plan and prefers planting the seeds in 6-inch pots, about twenty-five together.

In the grounds outside the water lily beds attract the most attention. Although a comparatively recent addition to the stock, the demand has been most satisfactory and is increasing rapidly. Under the care of Mr. Tricker, who has charge of this department and who is the foremost expert in this line in the country, the stock has improved greatly. All the varieties of merit have been added and a number of Mr. Tricker's own seedlings, which are very attractive. A number of new ponds have been constructed, occupying about half an acre, and are filled with stock to be grown on. The exhibition pond next the greenhouses



ELLIOTT AROH, FRANKLIN PARK BOSTON.

is now almost at its best, with its great leaves of the victorias covering almost half the surface.

The fifty and more acres of perennial and herbaceous plants would take a day to themselves if one was to do them justice. There were several acres of young hollyhocks coming on for next spring's delivery. The young stock is very susceptible to a blight but by a liberal use of slug shot as soon as it was noticed the trouble was overcome.

The herbaceous phloxes were a glow of color and we were assured are gaining greatly in popularity. Here was a large block of petunias of the strain that has made the firm famous. They are wonderfully beautiful from any point of view. They are first taken from the seed pans and put into pots. This is done to guard the little ones which usually got left when transplanted from boxes and these little fellows, Mr. Eisele says, are generally the best varieties. As the Scotch gardener used to say to his apprentices "Mind the wee ones; the wee ones are aye the best."

I must not forget the cannas, with their bright showy flowers. It is a pity that they do not carry better, for they would be invaluable as cut flowers. Mr. Eisele is of the opinion that cut flower artists do not give near the attention they should to this outdoor class of stock, as much of it would be found very valuable for their work.

ROBERT KIFT.

CHRYSANTHEMUMS.

THE BLACK APHIS.

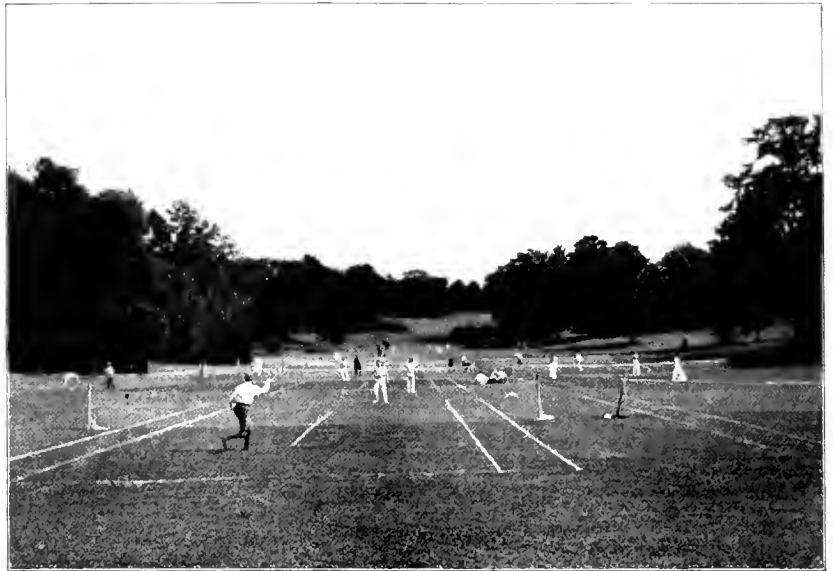
Now is the time of black aphid on chrysanthemums. A sure, safe and cheap remedy is a half pound bar of Ivory soap dissolved in a pail of boiling water, adding three pails cold water and applying in a fine spray, at once, while warm. It kills all the aphides or red spiders it touches, never hurts foliage, even that of violets, and is equally effective for mildew on roses, even a badly affected Crimson Rambler outdoors. E. O. ORPHE.

SEASONABLE NOTES.

Plants set out about June 1 by this time have the beds well filled with roots. They are making a vigorous growth and to maintain this they will need every encouragement. If planted in the regulation bench of six inches of soil, the beds should be given a mulch of well rotted cow manure. The material should be made as fine as possible and spread evenly, to the depth of about one inch. If thoroughly rotted manure cannot be obtained, it is safest to mix some soil with it, about one part to three of manure. Before putting on the mulch go over the beds and loosen the surface of the soil. After applying the mulch water it well. We sometimes give a dressing of either wood ashes or bone meal when mulching the beds but this should be governed by the amount in the soil or the quantity used at planting time.

This is the season when chrysanthemum growers have all their work laid out, especially if other things have a claim on their attention, but if one expects to reap success his chrysanthemums must not be neglected. They will need to be securely staked to insure against crooked stems. Every grower has his own opinion about the way his plants should be tied up but our preference is for the cane stake, about four and one-half feet in height, the plants being tied with raffia.

Another important part of the work is



THE BOSTON PARK DEPARTMENT MAINTAINS EIGHTY-TWO TENNIS COURTS.



A GLIMPSE IN FRANKLIN PARK, BOSTON, MASS.

to keep the lateral shoots removed, also all buds forming at this time, allowing the side shoot to grow on. Many varieties are very persistent in forming buds at very close stages of growth, notably most of the early varieties, also Ivory and the Vivand-Morel family. These, therefore, need extra watching. Some varieties also send up a bud that is deceiving, more like a growth than bud. Mrs. Elmer D. Smith, Golden Wedding and Wm. H. Chadwick we find do this.

The plants need plenty of water just now and must not be allowed to dry out. Ample syringing is also essential, with all the ventilation possible day and night and no shading whatever.

Late varieties, and where the object is to grow late propagated stock, planted close, for medium-sized flowers, should be put into their permanent quarters without delay. Choose clean, vigorous stock. They can be planted six inches apart, or even less, each way and will make nice average blooms for cheap work.

C. W. JOHNSON.

Father Terry's Best Work.

Many a patient investigator and creator of new plants, by plentiful use of printers' ink, has been held up to the admiration of the world as a benefactor, and he has deserved it. But many as worthy have toiled long and patiently and are almost unknown. H. A. Terry is one of these. He lives in the quiet little town of Crescent, Iowa, about ten miles north of Council Bluffs. He is now about 77 years of age and has spent years in developing hardy plums for the west and northwest and has given us about fifty varieties. But I think his grandest achievement is the creation of a large family of peonias. He has given the world over ninety new ones, all of them of merit and some of superior value.

About thirty years ago Mr. Terry secured the finest peonias he could find anywhere and then commenced the work of propagation by seed. He had a good basis and took plenty of time and has succeeded. I have visited him several times and have been deeply interested in



JAMAICA POND, OLMSTED PARK, JAMAICA PLAIN, BOSTON MASS.



ON THE RIVERWAY, A FAVORITE SPOT WITH BOSTON BICYCLISTS.

the man and his work and have seen his new creations in the height of their loveliness.

The Bride is a dainty white flower. I have tested it several years and am highly pleased with it. Princess of Wales is white, mottled with rose tints. Prince of Wales is deep crimson, edged white, full double in clusters.

Now here is one lack we have, of a pæonia committee to whom names can be referred. Kelway & Son, the great English growers, have the same names for entirely different flowers and to avoid confusion the names of the originators should be prefixed, as Terry's Prince of Wales. We find elsewhere the same confusion. Thurlow has Madam Breon, a deep crimson. Others describe it as pink.

Juno is another of Mr. Terry's choice ones, fiery crimson. Hercules, LaReine, Morning Star and Mrs. Rudd are all good. Some that he originated have gone out of his hands. I think the beautiful and fragrant James Vick is one. The Queen, an immense white, very early, is

another which is not on the list but which he brought to light years ago.

Thus this noble old man will leave behind him a monument of beauty and when he has gone thousands of lovely and charming flowers will give silent praise to his memory. C. S. HARRISON.

Ornamental Species of Asparagus.

There are now many distinct species and varieties of the evergreen asparagus, and some are quite old introductions, but it was not until *A. plumosus nanus* was put into commerce that they attracted much attention as commercial plants. Now, however, several varieties are grown most extensively for market, and both as pot plants and for cutting from they are much appreciated. It is the variety generally grown, *A. plumosus nanus*, that finds most favor, but there is some confusion with regard to the name. I am reminded of this by seeing the illustration in the *AMERICAN FLORIST* for May 31, under the name of *A. Comorensis*. I have seen the strong variety

named *Comorensis* in this country. Seedlings vary very much, and cultural conditions make considerable difference in the appearance. Grown in light sandy soil and frequently divided, the tall growing variety becomes dwarfed. Going back to my first acquaintance with these, the variety with the flat, frond-like branches was called *plumosus nanus*, and that which is now coming into commerce as *Blampiedii* as *plumosus*. On comparing plants of *Blampiedii* with a large number of seedlings I had under my care I found they were identical. *Sarriensis* is another name given to the same variety. From the variations I have seen among the large number of seedlings which have come under my notice, I am led to believe that they are all natural varieties of one species.

Asparagus tenuissimus is a distinct species and one of the prettiest, and deserves to be more extensively grown. It is curious that this may be readily propagated from cuttings, while it seems impossible to get the varieties of *plumosus* by the same means.

Asparagus Sprengeri.—This is coming much more into favor than when first introduced. Though not quite so light as the foregoing, the long drooping sprays are very effective, and they last so well, and being nearly hardy is another point in its favor.

Asparagus virgatus.—This is an older introduction, having been first introduced about forty years ago, but it is not generally known. Grown under favorable conditions it makes a most elegant plant, just the sort of thing to use among flowering plants to give a little relief without obstructing the view.

Asparagus dellexis is another distinct and useful species having long, slender, wiry stems; this is sometimes confused with *A. decumbens*, but this is deciduous and of no value as a market plant. All of these referred to may be grown under cooler treatment than is generally supposed. A change from heat to cold is damaging, and none of them do well under the shade of other plants. A light, open position, a regular temperature, rich soil and careful attention to watering are the main factors in successful culture; and when cut for market they should be packed dry in air-tight boxes. —*Metropolitan in Hort. Advertiser.*

Pennsylvania Horticultural Society.

The usual monthly meeting of the Pennsylvania Horticultural Society was held at Horticultural Hall, Philadelphia, July 15, John McCleary presiding. The usual display of outdoor cut flowers for the Bodine prizes took place and resulted in strong competition and good displays, both from the quality of exhibits and arrangement of same. Many tables were occupied in this class and many interesting subjects were seen. John G. Gardner exhibited a number of perennial phloxes, both standard varieties and seedlings. Among the most notable were Wm. Robinson, Snowflake, Independence, Le Siecle, Epopee, Carran de Ache, Cocqueliot and several promising seedlings. Potatoes and lettuce were in competition for the Michell prizes.

The address of the evening was by John Thatcher, describing what he saw around Boston in a recent visit to that city. Mr. Thatcher's remarks were listened to attentively and there appear to be many things worthy of adoption. Boston seems to lead in many matters horticultural. She may well feel proud of the Arnold Arboretum and the progressive-

ness and originality of many private owners. Planting in masses of permanent and annual beds, Mr. Thatcher observes, is practiced very extensively and the effects created thereby make a lasting and favorable impression on the mind.

The awards for outdoor cut flowers, fifteen varieties, were, first, John McCleary; second, Wm. Kleinheinz; third, Ernest Schreiber. For lettuce, first, Thos. Holland; second, Thomas Long. For potatoes, first, John McCleary; second, Thomas Long. For frilled tuberous begonias, first, F. Canning. A certificate of merit was given to John G. Gardner for perennial phloxes and special mention went to Victor Holmes for Kentucky Wonder snap beans and double sunflowers. FRANCIS CANNING.

Crops That Gather Nitrogen.

George C. Watson, of Philadelphia, has been investigating the subject of nitrogen-gathering crops and with other information received the following communications:

I have not had very good success with cowpeas as a green manure, but I think this was partly my own fault in planting too early, as the peas failed to come up good. What few came were poor and quickly got smothered in weeds. Still, I believe they are a good crop to plow under. JOHN BURTON.

In answer to your inquiry about my using crimson clover for a nitrogen gatherer would say that I do so every year, but in conjunction with cowpeas and not in competition with them. I sow the peas about this time (June 17), plow them under in September and sow in crimson clover, which I in turn plow under when in blossom the following spring to seed to peas again. I like this method, not only because I get two crops of nitrogen gatherers in a year, but I think the repeated plowings keep the grubs from the soil, as I never have them in such ground. I copied this method from Wm. Munro, foreman for Robt. Scott & Son, when he was with me.

J. HENRY BARTRAM.

The Climbing Dahlia.

This is the name that has been applied to a new and remarkable climber closely related to the dahlia. It is a native of Costa Rica and was first introduced to the British Royal Gardens, Kew, a few years ago. It has since found its way into a few gardens, and there is no doubt when it becomes better known it will be a popular plant. The climbing stems attain a length of twelve feet or more under favorable conditions and are supported by means of the tendril-like stalks of the deep green leaves. These may be described as ternate or three-lobed, each lobe being pinnately cut, the outline of the entire leaf being more or less heart-shaped or triangular. When grown in the open air the flower heads appear from the end of August and continue until destroyed by frost. Each flower-head is two and one-half to three inches across, having bright orange-scarlet ray florets, surrounding a bunch of yellow florets in the center. In fact, the flowers are not unlike some single forms of dahlia or of *Cosmos bipinnatus*.

When first introduced to gardens, the climbing dahlia was treated as a warm-house plant, owing, probably, to the fact that it came from Costa Rica. Experience, so far, however, has proved that it

is not only hardy out of doors during the summer months, but also that it is a charming creeper for covering a south wall. As might be expected, the stems and foliage are not proof against a few degrees of frost, nor will the roots retain their vitality out of doors without good protection. The plant flourishes in ordinary good garden soil and may be increased by stem cuttings in gentle heat in spring, like dahlias, or from seeds sown under similar conditions. W.

Cool Weather at Asheville.

While in most sections of the country the weather just now is excessively hot and uncomfortable, that at Asheville appears to be the reverse—cool and



W. A. HAMMOND

enjoyable. In the *Asheville Gazette* of July 22, for example, we find the following item: "The audience at Riverside Casino last evening was rather larger than usual, even for an opening night. Overcoats and wraps were much in evidence."

Haemanthus Katherinae.

There are several species of haemanthus known to botanists, and a good many are to be found in cultivation. Only a few of the more showy kinds, however, like *H. coccineus*, *H. Lindenii*, *H. magnificus*, *H. multiflorus* (or *Kalbreyeri*), *H. Natalensis* and the subject of the present note, can be regarded as general favorites. The distinct character of the foliage and the large umbels of starry flowers render them, when well grown, very conspicuous objects in the greenhouse and anyone interested in bulbous plants should certainly give a few of the haemanthuses a trial.

I recently saw a grand specimen of *H. Katherinae* in blossom in a private garden. The large distichously arranged leaves, with wavy margins, were eighteen to twenty-four inches long, narrowed into a short stalk at the base and being deeply channeled down the center. The fleshy scape, about two feet high and quite an inch thick at the base, sprung up from the base of the bulb and bore an umbel, eight to nine inches across, of about fifty bright red, starry flowers, with golden yellow stamens poised on the top of deep crimson filaments. This species will remain in flower from November till

about the end of January in a greenhouse. It flourishes in turf loam, leaf mould and sand, and is readily increased by the offsets from the bulbs. W.

Coming Exhibitions.

[Secretaries are requested to supply any omissions from this list.]

BOSTON, MASS., September 11-14, 1902.—Annual exhibition of plants and flowers Massachusetts Horticultural Society. Robert Manning, Sec'y, Horticultural Hall, 300 Massachusetts avenue.

BOSTON, MASS., November 6-9, 1902.—Chrysanthemum show Massachusetts Horticultural Society. W. P. Rich, Sec'y, Horticultural Hall, 300 Massachusetts avenue.

CHICAGO, ILL., Nov. 11-15, 1902.—First annual exhibit of Chrysanthemum Society of America and twelfth annual exhibition Horticultural Society of Chicago, to be held jointly. E. A. Kaest, Assistant Secretary, 5700 Cottage Grove avenue, Chicago.

KANSAS CITY, MO., November 3-8, 1902.—Flower show, Convention Hall Directors, Kansas City, Mo.

LENOX, MASS., October 23, 1902.—Fall exhibition Lenox Horticultural Society. F. Herremans, Sec'y.

LOUISVILLE, KY., November 12-15, 1902.—Chrysanthemum exhibition, Business Women's League. H. Nanz, superintendent, Louisville, Ky.

MADISON, N. J., November 6-7, 1902.—Seventh annual flower show Morris County Gardeners' and Florists' Society. C. H. Atkins, Sec'y, Madison, N. J.

MARSHALL, TEX., November 13-14, 1902.—Annual flower show East Texas Flower Association. W. L. Martin, Sec'y, Marshall, Tex.

NEW YORK, N. Y., October 30-November 6, 1902.—Annual exhibition New York Florists' Club. John Young, Sec'y, 51 W. Twenty-eighth street.

PHILADELPHIA, PA., November 11-15, 1902.—Annual autumn exhibition Pennsylvania Horticultural Society. David Rust, Sec'y, Horticultural Hall, Broad street below Locust, Philadelphia.

PROVIDENCE, R. I., November 13-14, 1902.—Chrysanthemum exhibition Rhode Island Horticultural Society. C. W. Smith, Sec'y, 27-29 Exchange street, Providence.

SAN FRANCISCO, CAL., August 14-16, 1902.—Summer exhibition Pacific Coast Horticultural Society. Wm. Eldred, mgr., 1518 Mason street, San Francisco.

TARRYTOWN, N. Y., November 11-13, 1902.—Fourth annual exhibition Tarrytown Horticultural Society. Edw. W. Newbrand, Sec'y, Tarrytown, N. Y.

Advice From Fra Albertus.

"If the concern where you are employed is all wrong and the Old Man a curmudgeon, it may be well for you to go to the Old Man and confidently, quietly and kindly tell him that he is a curmudgeon. Explain to him that his policy is absurd and preposterous. Then show him how to reform his ways and you might offer to take charge of the concern and cleanse it of its secret faults.

"Do this, or if for any reason you should prefer not, then take your choice of these: Get out or get in line. You have got to do one or the other—now make your choice.

"If you work for a man, in heaven's name work for him!

"If he pays you wages that supply you your bread and butter, work for him—speak well of him, think well of him, stand by him and stand by the institution he represents.

"I think if I worked for a man I would work for him. I would not work for him a part of the time, and the rest of the time work against him. I would give an undivided service or none.

"If put to the pinch, an ounce of loyalty is worth a pound of cleverness.

"You cannot help the Old Man so long as you are explaining in an undertone and whisper, by gesture and suggestion, by thought and mental attitude, that he is a curmudgeon and his system dead wrong. You are not necessarily menacing him by stirring up discontent and warming envy into strife, but you are doing this: You are getting yourself upon a well-greased chute that will give you a quick ride down and out."

FLORISTS WILL GO TO DIXIE.

WHEN the wise florist plans his journey for Dixie his first thought will naturally be as to where he can join one of the large parties of his fellow craftsmen who will arrive in Asheville, N. C., on the morning of August 19. No one who has attended a recent convention of the S. A. F. needs be told that one of the most enjoyable features of the whole affair will be the railway journey through a new and wonderful country in the company of a band of care free pleasure seekers, many of them on the only outing they allow themselves each year. The Asheville convention, more than any in recent years, affords the opportunity for these big special trains for a thoroughly enjoyable ride. The trip is a long one and the railroad fare so very low that it, in itself, is an inducement to the formation of large and friendly parties. Most of those from the north who are going will join one of these special trains, either at Cincinnati or Washington, on the afternoon of Monday, August 18.

The Cincinnati train of Pullman sleepers will leave at two o'clock via the Queen and Crescent railroad, for its run of 442 miles. It will carry all those from the north, Pittsburg, Buffalo, Canada, Detroit, Cleveland, Chicago, St. Louis and smaller intermediate cities, who will reach Cincinnati sometime that forenoon.

The Washington special will pull out Monday afternoon at five, having on board the parties from Baltimore, Philadelphia, New York and New England, as well as the two and threes from many other places.

The Chicago party will leave at 8:30 p. m., Sunday, August 17, via the Big Four. A special train will be run if the reservations of berths warrant. All the west and northwest, from Milwaukee, St. Paul, Omaha and Denver, is expected to join the Chicago party. The Chicago cars go through to Asheville.

St. Louis will have a \$20 fare and a special sleeper leaving Sunday night and reaching Cincinnati to join the big train.

Detroit will set forth Sunday night, via the Michigan Central, reaching Cincinnati Monday morning.

Cleveland, Pittsburg and Buffalo will also get to Cincinnati before noon Monday. They have not yet decided on routes; those intending to travel with either party would better write the

president of that particular Florists' Club.

The New York party will take train at 10:10 a. m. Monday on the Pennsylvania railroad to join the Philadelphia contingent.

Philadelphia, re-enforced by New York, will take the 12:29 p. m. train on Monday, August 18, for Washington, whence all will travel by special train.

A PROGRESSIVE VIRGINIAN ESTABLISHMENT.

After the Asheville convention many whose first visit it is will scatter for a

good health. To-day his place consists of twenty-eight acres of land and his range of glass covers 200,000 square feet. Besides a number of smaller houses there is one remarkable range, a row of thirty-one houses side by side, each house 22x200 feet and thoroughly modern in every particular. A shed fifteen feet wide and 550 feet long passes down the center of this range, carrying the heating pipes.

The place is heated by two boilers of 150 horse-power each, so valued that either or both may be operated as occasion may require. The fuel is soft coal and in Richmond it costs \$3.10 per ton. At the boiler an 8-inch steam pipe starts down the long shed, feeding the 2-inch coils in the houses. Of course the main is reduced in size as it progresses and house after house is taken off. All the pipe in the shed is covered with asbestos to economize heat and the steam is returned to the boiler by an automatic pump. A steam pressure of fifty pounds is carried on the boilers, controlled by an automatic damper, and an 8-inch automatic reducing valve keeps the pressure in the heating pipes steady at one pound.

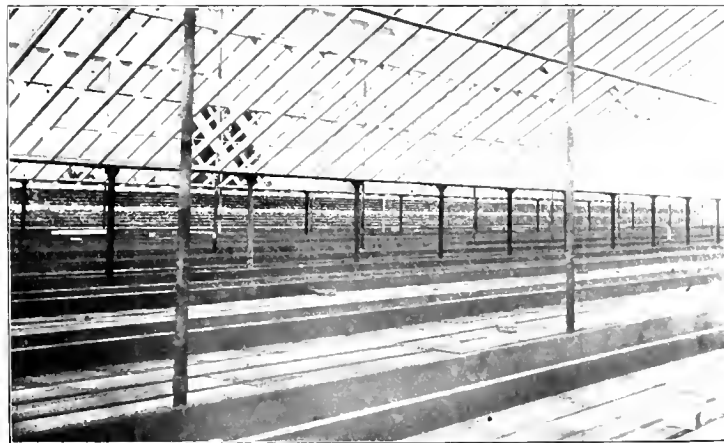
The water supply for this big establishment is in a well fifteen feet in diameter and thirty feet deep which has never been known to fail. There is a tank of 10,000 gallons capacity in which liquid manure is made and pumped to all houses by steam. The stock grown is principally cut flowers, carnations and roses, violets, chrysanthemums and the various seasonable specialties.

One of the accompanying illustrations shows three new brick walled houses, 22x200, which Mr. Hammond is putting up. They are on the plans adopted by the large growers for the principal northern markets, where space and light are the essentials. The iron gutters shown are the pattern made by Diller, Caskey & Company, successors to Jennings Bros. The upper illustration shows Mr. Hammond's residence, with a glimpse of the greenhouses, and on the opposite page is a portrait of Mr. Hammond himself. He will be at the convention and glad to see visitors at his place.

There are many other interests to repay one for a visit to the vicinity of Richmond, not only places horticultural, but of historical association which will cause them to endure in memory and literature long after the lapse of time has obliterated the works of man.



HOME OF W. A. HAMMOND, RICHMOND, VA.



MODERN HOUSES BUILDING BY W. A. HAMMOND, RICHMOND VA

closer inspection of the floriculture of the south. At Richmond, Va., these investigators will find the largest range of greenhouses in that section and, indeed, one of the largest in the country. It is the establishment of W. A. Hammond and its rapid upbuilding from a very modest beginning shows a progressive spirit and a masterly grasp of the business situation which would be a credit to the shrewdest member of the craft in the whole north. In fact few of the great places of the north have been developed more quickly.

Mr. Hammond started in business in 1887 with one acre of land and a greenhouse 20x100. His only capital was

Chicago.

LITTLE BUSINESS ENOUGH TO MAKE WHOLESALERS HUSTLE TO PROCURE SHIPPING STOCK.—ALL QUALITIES SADLY DETERIORATED.—CARNATION CROP PRACTICALLY OFF FOR THE MOMENT.—OUTDOOR STOCK MOVING VERY SLOWLY.—AN ACCIDENT.—GROWERS BUSY BENCHING STOCK.—THE CLUB PICNIC.—NOTES AND VISITORS.

The market is still very quiet but there is quite a little skirmishing for stock to fill out of town orders, for roses were never poorer and the cut of young Beauties has deteriorated remarkably with nearly all growers in the last week. Probably this market was never more bare of Beauties of whatever grade than in the past week. The result has been that good average values have been obtained. Tea roses have, it would seem, got down to the lowest notch. Both Brides and Bridesmaids have been very scarce and poor for some days past, Meteor pretty good, Kaiserin scarce, Golden Gate most plentiful and Liberty good, but the latter has to be cut very tight to be serviceable and the buds are very small in consequence. Carnations are almost out of the market for the moment; practically everyone is neglecting the old stock in the work of replanting the houses which have been cleared out. Asters are beginning to come in more plentifully and are good considering what they have had to go through this season, but the rains have put a quietus on sweet peas. Water lilies are again beginning to come in; they have been literally covered with water and out of sight. Gladioli are very abundant but not extraordinarily good; they are decidedly slow sale. Business takes a spurt now and then and cleans up the market pretty well on auratum lilies, but there are still quantities of them coming in.

Edward E. Pieser, son of Sam. Pieser, the North Clark street florist, and nephew of E. E. Pieser, of Kennicott Brothers Company, met with a very serious accident July 24, falling from the platform of the Metropolitan Elevated railway while returning from the ball game. Both shoulder blades and his left forearm were broken but his ultimate complete recovery is expected. The lad is 14 years of age and at Polyclinic Hospital on Chicago avenue, is hardly yet able to tell how the accident occurred.

The Florists' Club will hold its annual picnic at Bergman's Grove, Riverside, on August 12 and a big time is expected. The grounds are easily reached by electric cars from the Garfield Park branch of the Metropolitan elevated. There will be suitable prizes for numerous sports and a large attendance is assured. Most of the stores will close for the day.

At Joliet the Chicago Carnation Company has its new rose houses all planted and the stock doing well. The carnations are now being benched. Mr. Hartshorne says that while a few plants in the lower part of the field have been lost, the percentage is small and the average of the stock is better than he ever had it before.

Wictor Brothers have their roses all replanted, that is, all except the six 250-foot houses of Beauties which are to be carried over for another year. Although this is the firm's first season with chrysanthemums, there never was a finer looking lot of plants than theirs.

Leonard Kill was at New Castle last week and says that all the growers there have things in fine shape. Reinberg & Weiland have their place all planted, to tea roses and Beauties, no carnations

being grown this year although they have some good plants in the field.

Weber Brothers are drying off their roses preparatory to carrying them over another year. They cut some of the very best Brides and Bridesmaids the market saw last season and they are not throwing out a single plant.

E. C. Amling is receiving some very fine Rudbeckia Golden Glow, but it doesn't sell, except now and then to a storekeeper who wants an armful for his window because it's cheap.

Among the solid element which will be of the Asheville excursion party will probably be Peter Reinberg, Henry Wictor, John Muno and Adam Zender.

John Muno has planted up those of this carnations which were on low ground. The rest of his stock is on high, sandy soil and will be left out a little longer.

E. A. Kanst will attend the annual convention of the American Park and Outdoor Art Association at Boston next week.

Peter Reinberg has benched five houses of Mrs. Lawson carnation, two of them the biggest houses on the place.

The Rothschild funeral on Wednesday gave Fleischman, Friedman and others some good orders.

Miss Jessie Ludlow, of Vaughan's Seed Store, is ill with diphtheria.

A. L. Randall is on a trip to New York. Visitors: J. A. Valentine, Denver, Col.; Otto Speidel, Oconomowoc, Wis.; John Kalisch and Edward Kalisch, of Wm. Kalisch & Sons, St. Louis; H. H. Frey, Lincoln, Neb.; John Peterson, Omaha.

Philadelphia.

BUSINESS TIDE AT LOWEST EBB.—ASTERS RULE THE MARKET.—LITTLE OTHER GOOD STOCK.—THE PRICES.—NEW PETUNIAS USEFUL.—RELATED MARKET PROJECT NOW RECEIVING SERIOUS CONSIDERATION.—COMMISSION MEN FIXING UP.—THE RIBBON BUSINESS.—NOTES.

Asters now hold the boards and it is almost asters or nothing. They are very fine and there is a good assortment of colors. The light and dark purples help out nicely for funeral wreaths. Prices range from 75 cents to \$1.50 per hundred. It is a great pity that the stems foul so soon; there seems to be no help for it. There are a few carnations about but they are very poor and hardly worth the name, except a few Hills and Crockers, which sell for \$1.50 per hundred. Kaiserin and Carnot, with a few La France, are about the only roses worth mentioning. The few Beauties to be seen are very poor. Roses range from \$3 to \$6 per hundred. The double fringed white petunias are great for set work and sell at from 50 cents to 75 cents per hundred. Trade in the stores is very light, it seeming to be the very duller part of the season.

The market question is being pushed again and we understand that the time is now considered ripe. Well, the time was ripe fifteen years ago and it must be well on toward decay by now. Thousands of dollars have been lost to the growers and the dealers have been put to great annoyance and inconvenience all this time because some half dozen men stood in their own light and antagonized the project whenever it was proposed. There is not now near the necessity for a piece of this kind that there was fifteen years ago. Then there were scarcely any commission houses worth the name. Now one large house handles more flowers daily than came into the city from all the growers at that time. In the mean-

time most of the large cities have established markets and they are successful to a degree and pay, in addition to the great benefits they are to the growers and dealers, handsome dividends to those lucky enough to hold the stock.

S. S. Pennock is making improvements, the principal addition being the fitting up of a large room in the second story to give the ribbons a chance to branch out. The success of this department goes to show what can be done by intelligent and careful handling and a proper appreciation of the wants of the trade. The ribbon business has broken out in a new spot, as M. Rice & Co., who have long wanted to take up this line, have secured the services of "Jack" Turnbull, formerly with S. S. Pennock, and are laying in a stock that is to be second to none. Although this firm has been in its building only two years, they have outgrown their quarters and have annexed two stories of the adjoining building.

We paid a flying visit to the Westcott establishment the other day. John, the redoubtable, was off to his Barnegat club house with several friends on a fishing trip. His brother and partner, Wm. H. Westcott, was holding the place down in great style, however, and we never saw it looking better. Everything was in apple-pie order and the prospects are excellent for fall houses of choice stock this fall.

Eugene Bernheimer is now nicely settled in his new location, 11 South Sixteenth street. He is now on a principal thoroughfare and has a nice, light basement, much like the Twenty-eighth street stores in New York. Everything is painted white inside and the place presents a very cheerful appearance.

A great gloom has been cast over the entire craft by the unfortunate and untimely death of young John Burton. It was a sad ending of a pleasure trip.

Chairman Watson says that the names of the Asheville party are coming in lively and everything points to a large delegation from this city. K.

Boston.

TRADE STILL VERY QUIET AND NO IMMEDIATE PROSPECT FOR IMPROVEMENT.—SUPPLIES AMPLE FOR THE MODEST DEMAND.—GOOD SHOW.—NICE PARTY FOR CONVENTION TRIP.—FIGHT ON THE BEETLE.—SYMPATHY FOR PRESIDENT BURTON.—NOTES.

Midsummer stillness in the flower trade is broken only by the regularly recurring exhibitions at Horticultural Hall and the more or less frequent arrival of some tourist from other climes, seeking rest and recreation in the cool sea breezes of the New England coast. The weather has been decided enough in its frigidity to satisfy the most critical visitor as to the proximity of the north pole, but nevertheless the season keeps well in advance of the average as to date of outdoor bloom, the principal effect of the low temperature and frequent rains being the longer continuance of the flowering period and the more sturdy quality of the flowers coming to market daily. The quantity received at present is not heavy but fully as heavy as the needs of the buyers will justify. Prices are on a summer level and will remain about stationary, no doubt, until some decided influence is felt, such as the full tide of the aster cut or the crop of Japan lilies. Renovating is going on in a greater or less extent in the various flower marts. Many familiar faces are missing from their accustomed posts for, no matter

how good a vacation resort Boston may be for others, the native is not satisfied unless he gets away somewhere and experiences a change of scenery, if nothing else.

The exhibition last Saturday was a small one but furnished the necessary sensational interest, in the fine hydrangea shown by Mr. Walsh, which were awarded a silver gilt metal and for which a very brilliant future is predicted. W. J. Clemsen, Ed. Powell gardener, staged a splendid collection of hardy herbaceous plants and special collections of sweet peas and phloxes. Blue Hill Nurseries, George Hollis, E. L. Lewis and other regular exhibitors were also well represented. The mushroom display of the Mycological Club was very large and attracted an enthusiastic crowd of students.

A vigorous fight is on to keep in check the elm leaf beetle. Now that the habits of this disgusting pest are generally known and the virtues of Bowker's Disparene as a protection against it are recognized it is possible to forestall it and this is just what the park department has been doing with gratifying success. Some trees that were entirely defoliated last year are in good clean condition as a result of early and thorough spraying.

The arrangements completed for the reception and entertainment of the Park and Outdoor Art Association visitors next week give assurance of a very enjoyable and instructive time. For the park officials who are expected, the preparations for showing them Boston's great public reservations are especially elaborate. H. P. Kelsey is chairman of the introduction committee and Gen. F. H. Appleton of the committee on entertainment.

As the time draws near for the Asheville trip notice of intended participation is received from one after another who are not general attendants at these conventions and it now seems assured that New England will be fairly well represented when the roll is called. One party is being organized to go by the sea route via Norfolk.

The sad news of the bereavement that has come to the home of President Burton and in almost equal degree to the home of Edwin Lonsdale in the sudden taking away of young Mr. Burton has filled the hearts of a host of Boston friends with sorrow. The event has cast a gloom over us all.

J. W. Newman, formerly at 46 Brattle street, has opened a very finely appointed and well located store at 37 Washington street.

Mr. and Mrs. Alex. Wallace are spending the week in Boston.

St. Louis.

FLORISTS ENJOY A DAY IN A GROVE.—WINNERS OF THE SPORTING EVENTS.—GROWERS AND RETAILERS BUSY REPAIRING.—TRADE DULL AND STOCK IN LIGHT SUPPLY.

The florists' picnic was held at Priester's Grove on Thursday of last week and a large number were present. The weather was ideal for a picnic although a few drops of rain did fall and stop the ball game after the first inning. The sporting events were well contested. The prize winners were in the order named: Little girls' race, Miss Ammann, Miss Gutzman; boys' race, Master Carrick, Charles Cuendet; ladies' race, Mrs. J. W. Dunford, Mrs. F. M. Ellis; men's race, W. F. Hirt, Oscar Kuehn; growers' race, J. F.

Ammann, E. W. Guy; ladies' bowling, Mrs. Klaus, Mrs. E. Weber; men's bowling, E. W. Guy, J. J. Bencke; tug of war, J. F. Ammann's team. In the latter case the prize was a box of cigars and was shared with the defeated team of E. W. Guy. Boating and dancing furnished amusement for those that did not participate in the other events.

The wholesale market is not oversupplied with carnations this week but the few that are coming in do not bring more than \$1.50 per hundred for the best, principally Triumph and Flora Hill. Roses are a little more plentiful but are of low quality. Beauties are not overplentiful. Asters are rather small but sell at from 50 cents to \$1.50 per hundred. There is no market for lily of the valley though good stock is offered. Smilax is very good.

C. C. Sanders is busy putting up a new 120-foot show house. Mr. Sanders rebuilt several of his houses this spring and will take down one more in the near future. He has built a large wagon shed, large enough to drive in with a big wagon. He is thinking of putting up a brick office building next year. The benched chrysanthemums, potted cyclamens and other stock all looks good.

Fred. Meinhardt, Mrs. Ayers, the Koenig Floral Company, Geo. Waldbart and Aug. Kuntz are busy renovating their stores.

R. J. Mohr has left the employ of the Plant Seed Company.

R. J. M.

New York.

TRADE COLORLESS AND STOCK OF SUMMER QUALITY.—BEAUTIES THE ONLY GOOD ROSES.—OUTDOOR FLOWERS PLENTIFUL.—NOTES AND VISITORS.

The wholesale market is featureless. There are large quantities of short-stemmed roses coming in, from young planted stock, but the only really good material available is American Beauty, of which the supply is fair and the sales satisfactory. There are heavy receipts of summer stock of the usual lines. Sweet peas are plentiful and of excellent quality. Asters are increasing in quantity daily.

Charles Schenck returned Thursday with a good coat of tan acquired in the Thousand Islands of the St. Lawrence. He reports having had a splendid time.

Visitors: F. C. Stevens, Bermuda; J. C. Vaughan and A. L. Randall, Chicago.

Indianapolis.

FLORISTS OF THE STATE HAVE SUCCESSFUL OUTING.—PROFITABLE ASTER CROP.—A VARIETY OF PERSONAL DOINGS.—NOTES AND VISITORS.

The recent outing of the State Florists' Association was a great success; everybody seemed to enjoy it immensely. The attendance was so unexpectedly large that the ice cream supply gave out a little bit too soon. Among the amusements most enjoyed by the ladies was a steamer ride up the river. The center of attraction for the men was the base ball game. There was a Bertermann nine and the other side consisted of all the other base ball enthusiasts. It was a very lively game, which resulted in a score of 25 to 12 in favor of the "mixture." Success was due to John Hartje, who pitched a fine game.

Philip Conway is coining money out of his aster crop. He has them planted outside, and as the season was very favorable, it has proven a great success. Those with asters inside the houses find it

difficult to compete in prices with Mr. Conway.

Mr. Kaufman, a German horticulturist, spent ten days with his uncle, H. Junge. Mr. Kaufman was enroute for the west, inspecting horticultural establishments.

The Indianapolis Flower and Plant Company is completing two houses, which will make them a total area of 40,000 feet.

Carl Sommenschmidt and Ed. Bertermann and family will leave for Buffalo, Detroit and other places in a few days.

It is reported that L. Geiger has gone out of business. His place will hereafter be continued by Martin Nelson.

John Bertermann and family have gone to Elkhart Lake and other northern resorts for four weeks.

Mr. and Mrs. A. Wiegand are on a trip to Yellowstone Park.

Visitors: Harry D. Edwards, from Newport, Ky.; Mr. Hauswirth, Chicago; Mr. Elverson, New Briton, Pa.; H. Thaden, Atlanta, Ga. H. J.

Columbus, O.

VARIOUS JOTTINGS OF THE DOINGS OF GROWERS AND RETAILERS.—SWEET PEAS A PROFITABLE CROP.—FUNERAL WORK MAKES BUSINESS.

At the Maurice Evans place everything is found in apple-pie order, as usual, notwithstanding the fact that Ed. Evans is not altogether satisfied with his young rose stock, claiming it is not up to the usual standard. Mrs. Maurice Evans, who was very sick at the time of her husband's death, is very much improved and no doubt will soon be about again.

In spite of the excessive wet weather the aster crop is still looking well and quite a few are now being brought to market. Sweet peas are about done for. While these were sold low this season, they proved a very profitable crop for those who grew white and light pink extensively.

C. A. Roth has returned from the west. He reports having had a pleasant as well as a profitable trip and is well pleased with the outlook for winter crops of carnations about Joliet, Ill., from which course he obtains a great deal of his stock.

The past week was a profitable one for most of us, as there was quite a bit of funeral work and everybody had his share of it. CARL.

Paterson, N. J.

LITTLE DOING IN A TRADE WAY.—SOME PEOPLE READY TO QUIT.—VARIOUS NOTES.

Joseph Towell is still confined to his home and during the past two months he has been in bed. The business is being conducted by his son, Harry, who is going to grow smilax, Asparagus plumosus and A. Sprengerii in greater quantity than ever.

Florist Ed. Secery has been selected to represent the Paterson Park Commission, of which he is a member, at the annual convention of the American Park and Outdoor Art Association at Boston.

There is not much doing at present and stock is not over plentiful. The city is once more beginning to look like itself, many new buildings are going up in the buried districts.

Hoffman, of Albion Place, has offered his place for sale. He has been sick all the past winter and and is going to get out of the business.

Mrs. J. Kirberg, who conducts a retail store, is tired of the florist business and has offered her place for sale.

SHUK CITY.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements on all except cover pages.
10 Cents a Line, Agate; \$1.00 per inch.
Cash with Order.

No Special Position Guaranteed.

Discounts are allowed, only on consecutive inser-
tions, as follows—6 times, 5 per cent; 13 times,
10 per cent; 26 times, 21 per cent;
52 times, 30 per cent.

Cover space sold only on yearly contract at
\$1.00 per inch, net, in the case of the two
front pages, regular discounts apply-
ing only to the back pages.

The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines only.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

Our Special Convention Number will
be issued August 16. Please send your
advertisement early.

The names of the flowers forwarded
by "J. S." are *Asclepias tuberosa* and
Lilium Philadelphicum.

LEADING growers of peonies report
that some good orders are booked and
that there will again be large plantings
this fall.

THIS year's S. A. F. convention, because
of its location and the low railroad fare,
will attract many of the craft who are
not regular attendants.

THE second annual exhibition of the
National Sweet Pea Society of England
was held in London July 15-16 and
proved even more successful than the
first one, held last year.

FREDERIC W. TAYLOR, acting chief of
horticulture at the St. Louis World's
Fair, called at this office during the week
and stated that very satisfactory progress
is being made in his department.

PRESIDENT BURTON lost one of his sons,
a very promising young man, by drown-
ing last week. We tender our sincere
sympathy to the sorrowing family and
feel that the entire trade does likewise.

Society of American Florists.

STATE VICE-PRESIDENTS.

It is most desirable that members
should express their preference as to the
selection of the local vice-presidents to
represent their respective states for the
coming year. It is the duty of each state
vice-president (or in his absence some one
who represents him) to call together the
members present from his state at the
convention, for the purpose of electing a
vice-president. If this is not attended to
it devolves upon the president to make
the appointment according to his best
judgment, and if such appointment should
be not entirely satisfactory the responsi-
bility rests solely with those who failed
to attend to the duty at the proper time.

WM. J. STEWART, Sec'y.

A New Volume.

With this issue we commence a new
volume which we hope to make even
more attractive and valuable than any
already published. During the past year
we have divided the customary annual
volume, making two half-yearly volumes.
This was done because of the unhandy
proportions which the former had
assumed. Our first half-yearly volume
commenced with the issue of August 3,
1901, and concluded with that of Janu-
ary 25, 1902. The second commenced

with our issue of February 1, 1902, clos-
ing with last week's number, that of July
26. The former contained 1,024 pages
and the latter 1,056, a grand total of
2,080 for the year, or sixty-four more
pages than the preceding annual volume.
Both of these half-yearly volumes will be
bound soon and ready for delivery at \$2
each.

Hotels of Asheville.

The following Asheville hotels are rec-
ommended as desirable and convenient
at rates quoted, American plan:

Battery Park, per day.....	\$3.00 to \$4.00
Swannanoa, per day.....	2.50 to 3.00
Berkeley, per day.....	2.10 to 3.00
The Manor, per day.....	2.10 to 3.00
Glen Rock, per day.....	2.00

Rainfall at Chicago.

Chicago is the center of a large area
over which there has been unusually
heavy rainfall all spring. The exact
situation is set forth in the following
table of the U. S. Weather Bureau, giving
in inches the precipitation for the past
four months compared with the same
period for the past four years:

Period	1902	1901	1900	1899
April.....	2.26	.33	1.02	.14
May.....	5.08	2.18	3.59	4.35
June.....	6.45	2.43	2.06	2.71
July.....	5.78	4.25	4.64	6.66
Total.....	19.57	9.19	11.31	13.86

Greenhouse Building.

Westport, Conn.—Fillow & Banks one
house.

Fryeburg, Me.—H. Tarbox, one house.

Marblehead, Mass.—E. Lefavour, carnation
house.

Stockbridge, Mass.—F. Aymar, one
house.

Dorchester, Mass.—The Franklin King
estate, house 30x150.

Carlisle, Pa.—John B. Lindner, two
houses 30x300.

DeHaven, Pa.—J. L. Wyland, house
18x130.

Carlstadt, N. J.—Jacob Ullmann, house
30x80.

Castle Shannon, Pa.—W. J. Campbell,
house 20x100.

The American Chrysanthemum Exhibition.

CHANGE OF DATE.

The date of the above exhibition, to be
held under the joint auspices of the
Chrysanthemum Society of America and
the Horticultural Society of Chicago, at
the Art Institute, Chicago, was first set
for November 4-8, but has now been
changed to November 11-15 inclusive.
This is the first exhibition attempted by
the national society and the arrange-
ments made for it by the local society
are most satisfactory. The main exhibi-
tion hall is sixty feet wide by 220 feet
long and thirty feet high, with an annex
40x80 feet. The conference hall—a beau-
tiful and commodious chamber—in the
same building can be secured for meet-
ings and discussions as may be found
necessary. More delightful and appropri-
ate surroundings for the great chrysan-
themum renaissance of America could
hardly be imagined and the building is
located in the very best section of the
city for the accommodation of visitors of
every class and from every direction.
The preliminary list of premiums has
been out for some time and copies of
same may be had by addressing Edwin
Lonsdale, Sec'y, Chestnut Hill, Philadel-
phia, Pa., or E. A. Kamst, assistant sec-
retary, 5700 Cottage Grove avenue,
Chicago.

Piping a Range.

ED. AM. FLORIST:—I am building a
range of three Dietsch short-span con-
nected houses 14x50 for carnations and
wish advice as to piping. The houses
run east and west, gutters seven feet
high, walls protected except on the east.
There is a lean-to 6x50 feet with a two-
foot wall on the south side; a shed 15x56
shelters the west ends, an office 14x22, a
greenhouse 14x18 and one 10x14 pro-
tect the north side. I do not wish to
heat the office with the apparatus that
runs the houses. I have a No. 16 Hitch-
ings corrugated fire box boiler capable of
handling 1,000 feet of 4-inch pipe and
have 650 feet of the pipe and all fittings
on hand. How shall I arrange the
piping? What is the best packing and
cement for the joints? L. L. F.

The three carnation houses can be
readily heated by running two 4-inch
flow pipes along the outer walls of each
of the outside houses, carrying them
across the end and with each feeding
two 4-inch returns. This will be sufficient
to give four 4-inch pipes in each house.
If it is not possible to carry the pipes
across the doors, use one flow and one
return on each side of each house. For
the lean-to, 6x50 feet, one 4-inch pipe
will be hardly enough except for violets
and pansies, but two 2½-inch would
answer for 50'. For the other houses
use one foot of pipe to four of glass.

While joints made of iron filings and
similar material are most durable, a very
satisfactory joint can be constructed
from oakum and Portland cement in
alternate layers, when the runs are short.
Even then care is needed to provide for
the expansion and contraction of the
pipes, lest the joints be pulled apart.
Failures with this kind of joint often
result from allowing the cement to set
too quickly, but this can be avoided if
the joints are covered with damp soil or
sawdust for a week or two. L. R. T.

Trouble With a Boiler.

ED. AM. FLORIST:—We have two boilers,
side by side, one eighty horse-power,
the other 120 horse-power. The small boiler
stands between the larger one and a
range of six houses. The flow from the
large boiler is 3½ inches, a 4-inch main
continuing after it passes the smaller
boiler. A 3½-inch return enters both
boilers. There is a valve between the
main feed pipe and each boiler. When
the large one is fired heavily it gains
steam on the gauge and the coils in the
last two houses choke up with water.
Then there is a hard kicking in the return
where it enters the large boiler. It seems
to us that the flow pipe from the large
boiler does not furnish relief for the steam
generated and the return being the same
size, 3½-inch, takes the force from the
boiler instead of from the other end of the
main. How shall we remedy the diffi-
culty? Will a 4-inch flow do it? G. H. S.

If a 120 horse-power boiler has only a
3½-inch steam pipe it is not strange that
the pressure rises when fired heavily. A
boiler of this size will handle 12,000 to
15,000 square feet of radiation and
should have for this radiation a 6-inch
pipe, at least for low pressure heating.
If carried at forty pounds pressure and
reduced in the coils, as might be desirable
under many conditions, a 4-inch main
would answer. The cause of the flood-
ing of the returns and the pounding may
be due to the fact that there is more
radiation than can be properly supplied
through the small main, or that the

boiler is too high to get a good return of the water, or, as is probably the case, to both. If this surmise is correct it will be necessary to put in a steam trap, among which the Morhead is one of the best for the purpose, in addition to increasing the size of the main. Even then the pressure will naturally rise when firing heavily, unless there is a very large amount of radiation. L. R. Taft.

OBITUARY.

JOHN FROST.

John Frost, a much respected citizen of Erie, Pa., died on Monday, July 28, at the age of 46 years. Mr. Frost was born in Kauzin, Germany, where at the age of 13 he began working for a greenhouse establishment, continuing there until 1889, when he came to America and established himself in the retail florist business at Erie. Mr. Frost had been sick for about six months. He was well thought of by those in the trade and leaves to mourn his death his father, four sisters and two brothers.

D. T. CURTIS.

D. T. Curtis, for many years known in horticultural and seed trade circles in Boston as a member of the firms Curtis & Cobb, Curtis, Cobb & Washburn and Curtis & Bowditch, died at his home in Dorchester, Mass., on July 26, after a long and painful illness. Mr. Curtis was 87 years of age. He retired from business about fifteen years ago. He was for many years an active worker in the Massachusetts Horticultural Society and retained his interest in its exhibitions as long as he was able to attend.

JOSEPH W. NORTH.

Joseph W. North, the St. Louis retail florist, died July 20 at his home in Kimmswick, Mo., after a brief illness. Mr. North has been prominent in his line in St. Louis for many years. He was born in England 62 years ago, and removed to Bridgeport, Conn., in early boyhood. He served in the Union cause during the civil war, and after the war went to St. Louis and established himself in business with greenhouses at Kimmswick. He was a member of St. Louis Commandery No. 1, and of Moolah Temple, Mystic Shrine. He leaves a widow and four children.

JOHN BURTON, JR.

John Burton, Jr., son of John Burton, of Chestnut Hill, Pa., president of the S. A. F., was drowned on Friday, July 25, while canoeing with his brother, Alfred, on the upper Delaware river, near Lackawaxen, a point about fifty miles above the Delaware Water Gap. Mr. and Mrs. Burton and two daughters, his sons John, Jr., and Alfred Burton, his eldest son, and wife, were all stopping at the Gap. On Wednesday Alfred and his brother went to a point about 100 miles up the river with the necessary outfit and, hiring a canoe, started on a trip down. At night they camped in the woods or put up at a farm house. All went well until Lackawaxen was reached on Friday noon, when in shooting the rapids here the boat was overturned and both were thrown out. They were both good swimmers, however, and managed to get hold of the boat and floated along with the current without any thought of danger. Finally, as the banks seemed close, John said to Alfred, "You hold on to the boat and work her in and I will swim ashore and run down the bank and meet you," and when last seen by his brother John was making good progress

toward the bank. Alfred after floating along about half a mile farther managed to edge the canoe in and, getting a footing, pulled the boat up on the bank. Opening a bundle, which was still in the boat, wrapped in oilcloth for just such an emergency, he changed his wet suit for a dry one, in the meanwhile keeping a lookout for his brother. Getting no answer to his calls and seeing nothing of him he became alarmed and with what help he could summon in this somewhat lonely place he exhausted every effort to find the body. Mr. Burton, who had gone to Philadelphia Friday morning, was telegraphed for and on arrival immediately offered \$500 reward for the recovery of the body. It was not, however, until the following Tuesday afternoon, although parties were continually dragging the river, that it was found, and then had to be brought to the surface by means of dynamite. It is presumed that John overestimated the strength of the current and received a blow on the head, by coming in contact with a rock, that dazed him or rendered him unconscious, as he was quite a good swimmer and capable of keeping afloat for a considerable time. The deceased was 22 years of age and very popular with all who knew him. He was engaged with his father and was very much interested in the business. The sad accident has cast a gloom over the community and the heartfelt sympathy of all in the trade here and throughout the country will go out to Mr. Burton and his family in their bereavement. The funeral took place privately Wednesday afternoon, July 30.

K.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—Young married man wants position as rose grower; private or commercial. 11 years' experience. Address R. G., care American Florist.

SITUATION WANTED—To take charge; roses, carnations, etc.; married; references. State wages. Address W. M. KIRKHAM, Hunt's Hotel, 148 Dearborn St., Chicago, Ill.

SITUATION WANTED—By a German, 30 years old, married; 16 years' experience. First-class rose and carnation grower; also general stock. Best references. Please state wages. Address A. R. 101, Boonton, N. J.

SITUATION WANTED—In western state only, by experienced florist, as working foreman or grower of first-class stock. Successful propagator and grower of roses, carnations and general stock. Permanent place with fair wages looked for. WESTERN, care American Florist.

WANTED—Greenhouse men; steady work; will pay good wages. With or without board. Address R., care American Florist.

WANTED—Florist, single, German, middle age, with good reference to grow cut flowers and pot plants. MRS. GEO. WALDBAUER, Saginaw, Mich.

WANTED—Two young men to work in greenhouses—Roses and carnations. State wages wanted with board. Address COLE BROS., Box 577, Peoria, Ill.

WANTED—Rose growers and helpers; also one man that understands growing chrysantheums. The highest wages and steady work. BASSETT & WASHBURN, Hinsdale, Ill.

WANTED—Young lady for retail store. State experience if any and salary wanted. Good home and steady employment to right party. Address N. R., care American Florist.

WANTED—Married man, experienced in general greenhouse work. Steady employment to right man. State experience and wages expected. C. G. ANDERSON & Co., Red Oak, Iowa.

WANTED—A young man who understands something about orchid and fern growing. State where last employed and wages wanted, with board. Address J. M. GASSER Co., Euclid Ave., Cleveland, O.

WANTED—Experienced grower of Beauties and roses, able to take charge of range of houses and turn out first-class stock. Good wages to man with acceptable references. Married man preferred. Address H., care American Florist.

WANTED—A bright, ambitious young man with experience in a hardy plant and shrub nursery. Must be a good packer, capable of taking charge of packing house during packing season. Address, stating wages desired, J. W. ELLIOTT, Springdale, Pa.

WANTED—A working foreman to take charge of 22,000 square feet of glass, where first-class roses and carnations are grown, also one house of poinsettia; also one assistant. State age and wages expected, with board and washing. Apply to JOHN L. WYLAND, De Haven, Pa.

WANTED—Four boys, 17 to 20 years, as helpers or assistants in rose and carnation sections. Pay according to ability, from \$10 to \$20 per month and board. Apply at store, 37 Randolph St., Chicago, or to greenhouses at Morton Grove situated 14 miles from Union depot, on C. M. & St. P. R. R. POEHLMANN BROS. Co., Morton Grove, Ill.

FOR SALE—10,000 feet 10x12 glass, 80 hotbed sash and two 9-foot water back boilers. R. J. DONOVAN, 701 Granville Ave., Chicago.

FOR SALE—Well established greenhouse business, 12,000 feet of glass; steam heat, 100 miles from Chicago, INDIANA, American Florist.

FOR RENT—A prosperous retail and wholesale business; new houses complete; 15,000 feet of glass, 16x24; one acre of land and dwelling; rent \$60 per month; opposite Woodmere cemetery gates; one mile from Detroit, Mich. Address ANTON KAER, Woodmere, P. O., Mich.

FOR SALE OR LEASE—In a city of about 50,000 population, a well established greenhouse plant of 25,000 feet of glass, good dwelling, barn and everything complete. Will sell on easy terms or rent as long as parties want, but parties leasing same must buy stock. Don't answer unless you mean business. B. J., care Am. Florist.

FOR RENT—At Frederick, Md., greenhouses in complete order, 192x20, 63x18, 107x11, boiler room 60x18, equipped with No. 8 Furman boiler, small heater and all necessary pipes; large mushroom pits, stable, two acres of ground; dwelling for rent in immediate neighborhood; coal, manure, labor cheap, city water; no stock on hand. Rent \$300 per annum, half payable in advance every six months. Ill health of owner compelled retirement from successful business; principally vegetables under glass and mushrooms for Washington and New York. Address HENRY TRAIL, Frederick, Md.

For Rent or Sale Greenhouse

(about 7,000 feet of glass), dwelling and stable, Evanston, Ill., two blocks from C. & N. W. station. Good established trade direct from greenhouse. Rent reasonable. Address 1127 CHURCH ST., EVANSTON, ILL.

FOR SALE.

Now offered for sale, our entire plant, greenhouses, land, stock and business; thirty years established and under one management; nearly 25,000 feet of glass; products all sold retail; three-fourths income from cut flowers and floral work; whole place rebuilt in last ten years; the largest greenhouse place in northwest New England; a fine steady trade; books open. Desire to retire from active business reason for selling. For terms, write or visit

ELLIS BROS., Keene, N. H.

NOTICE

—OF—

STOCKHOLDERS' MEETING.

CHICAGO, July 19, 1902.

Stockholders of the American Florist Company:

You are hereby notified that the annual meeting of the Stockholders of the American Florist Company will be held in the Battery Park Hotel, Asheville, N. C., Wednesday, August 20, 1902, at 3 o'clock p. m. for the purpose of electing directors and officers for the ensuing term, and for the transaction of such other business as may come before the meeting.

J. C. VAUGHAN, Pres.
M. BARKER Sec'y.

Dallas, Tex.

RAINS FAVORABLE TO FIELD GROWN STOCK.—MANY COMPOSTS FOR CARNATIONS.—DOINGS OF RETAILERS.—TRADE LIGHT.—TREE PLANTERS.

Otto Lang has moved into his new store on Main street and has much more room now, also a far better location. He is a hustler and is fast coming to the front. He has closed a year's contract for the plant decorations for the Oriental Hotel. It requires quite a stock of palms to do this work and Mr. Lang has more than doubled his stock for this purpose.

The Haskell Avenue Floral Company is busy getting composts ready for carnations. They have four separate composts, all prepared differently, some heavy, some light, to be used for different varieties. The propagation of roses is also now on, and four benches 150 feet long are nearly ready for potting off. These benches will be filled three times more this season. The field-grown stock is the best they have ever had.

The ladies of Oak Cliff, a suburb of Dallas, have offered \$50 as a prize to the one having the best kept yard. The prize will be given next May. They have also organized a tree club and have planted large numbers of shade trees during the past summer. It is a commendable movement.

Texas is having plenty of rain now and the stock outdoors is fast coming to the front. Trade is rather quiet, with little doing outside of funeral work, and not much of that. Good flowers are scarce.

W. P. Hiebert is busy putting in a new hot water boiler and building a new potting shed. LONE STAR.

Lowell, Mass.

BUSINESS AT ITS LOWEST EBB.—LITTLE STOCK COMING IN.—WHITE COMMANDS GOOD PRICE.—PERSONAL DOINGS OF VARYING INTEREST.

With the end of July in sight, business is at a standstill and the supply of flowers, such as it is, is more than enough to meet the demands. Joost carnations are now about the size of buttons and this week will finish them up. Asters have made their debut and are welcome, especially the whites, since white carnations are very scarce. Carnot and Kaiserin are the only roses that are available, but they are in good shape. Water lilies are a noticeable shortage this year.

Peter McManamon returned home last week from a very enjoyable vacation in Canada. He was on the steamer Cumberland when she was struck, in Boston harbor, by another steamer, causing her to sink in a few minutes.

This has been a good season for the Crimson Rambler. Some very fine specimens have been seen and have caused a good many orders to be booked for spring delivery.

A. Roper's seedling carnation, Fair Maid, must be profitable, for he is getting \$4 per hundred for them and cannot supply enough.

For the past two weeks the weather has been very wet and the growers are complaining of injury to the stock outdoors.

C. F. Mills, who is located on upper Merrimac street, has closed his store for the summer.

M. A. Patten, of Tewksbury, is contemplating the convention trip. A. M.

ITHACA, MICH.—David Kleinhaus is removing his greenhouses to a lot across the street from his present location.

McKELLAR & WINTERSON CO.

Supply Everything Used by Florists, Nurserymen, Gardeners, Seedsmen..... Cemeteries, Parks, Etc.

HEADQUARTERS on CUT-FLOWERS

45-47-49 Wabash Ave.

Telephone Main 1129. ...CHICAGO

Wholesale Flower Markets

MILWAUKEE, July 31.

Roses, Beauty, med, per doz.	1.00@	1.57
" " short "	.50@	.75
" Liberty.....	6.00@	8.00
" Bride, Bridesmaid.....	2.00@	4.00
" Meteor.....	2.00@	4.00
" Golden Gate.....	2.00@	4.00
" Perle.....	2.00@	4.00
Carnations.....	1.0 @	2.00
Sweet peas.....		.15
Adiantum.....	75@	1.00
Smilax.....	12.00@	15.00
Asparagus.....		65.00
Common ferns.....		.25

PITTSBURG, July 31.

Roses, Beauty, specials.....	15.00@	20.00
" " extras.....	10.00@	12.00
" " No. 1.....	4.00@	6.00
" " No. 2.....		2.00
" Bride, Bridesmaid.....	1.00@	4.00
" Meteor.....	1.00@	4.00
Carnations.....	.55@	1.57
Asters.....	.75@	1.50
Lily of the valley.....	2.00@	3.00
Harrisil lilies.....	5.00@	10.00
Gladioli.....	1.0@	3.00
Sweet Peas.....	.20@	.50
Smilax.....	8.00@	10.00
Adiantum.....	.75@	1.00
Asparagus.....	35.00@	40.00

CINCINNATI, July 31.

Roses, Beauty.....	10.00@	20.00
" Bride.....	2.00@	3.00
" Bridesmaid.....	2.00@	3.00
" Meteor.....	2.00@	3.00
" La France.....	3.00@	4.00
" Kaiserin.....	3.00@	4.00
Carnations.....	.75@	1.50
Asters.....		1.50
Gladioli.....	3.00@	5.00
Lily of the valley.....	3.00@	4.00
Sweet peas.....	.20@	.25
Asparagus.....		50.00
Smilax.....		12.50
Adiantum cuneatum.....		1.00
Common ferns.....		.15

St. Louis, July 31.

Roses, Beauty, short stem.....	3.00@	12.00
" Bride, Bridesmaid.....	2.00@	4.00
" Golden Gate.....	2.00@	4.00
Carnations, ordinary.....	.75@	1.50
" choice.....		1.00
Asters.....		1.00
Gladioli, Tuberoses.....	2.00@	3.00
Ismene lilies.....	4.00@	5.00
Lily of the valley.....	3.00@	4.00
Sweet peas.....	.15@	.25
Smilax.....	12.50@	15.00
Asparagus Sprengeri.....	1.00@	1.50
" Plumosus.....	1.00@	1.50

"Fumigation Methods"

BY PROF. JOHNSON.

Every Grower needs this book..... Price \$1.00

AMERICAN FLORIST COMPANY, 324 Dearborn Street,CHICAGO.

E. H. Hunt,

WHOLESALE.....

Cut Flowers

THE "OLD RELIABLE,"

76 Wabash Ave., CHICAGO.

Poehlmann Bros. Co.

Wholesale Growers of

Cut Flowers

and Dealers in

All telegraph and telephone orders given prompt attention. 35-37 GREENHOUSES: Randolph Street, Morton Grove, Ill. CHICAGO, ILL.

The Cincinnati Cut Flower Co.,

437-439 Main St. WHOLESALE FLORISTS. CINCINNATI, O.

Consignments Solicited. Special Attention Given to Shipping Orders.

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Michigan Cut Flower Exchange.

Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around. BRONZE GALAX, \$1.00 per thousand.

26 Miami Ave., DETROIT, MICH.

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Frank M. Ellis, WHOLESALE FLORIST,

1316 Pine Street, ST. LOUIS, MO.

CONSIGNMENTS SOLICITED.

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Pittsburg, Pa.

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Business Methods

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Bassett & Washburn
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Wholesale Dealers and
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GREENHOUSES: HINSDALE, ILL.

WIETOR BROS.
Wholesale
Growers of **Cut Flowers**
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given prompt attention.
51 Wabash Avenue, CHICAGO.

FRANK GARLAND,
Wholesale
Grower of **Cut Flowers**
SPECIAL ATTENTION
GIVEN TO HARDY CUT **FERNS**
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Wholesale
Grower of **Cut Flowers**
Choice American Beauties.
We will take care of your orders at
reasonable prices. Prompt attention.
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Grower and Wholesaler of Cut Flowers.
600,000 FEET OF GLASS.
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51 Wabash Ave., CHICAGO, ILL.

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Wholesale Grower
and Shipper of **Cut Flowers**
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TELEPHONE CENTRAL 3598. All telegraph and
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Wholesale Florists.
457 Milwaukee St., MILWAUKEE, WIS.

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M. L. HENDERSON, OF LAURELBRANCH,
N. C., is located in the Mountains of North Carolina,
where he has as fine galax as grows in the world and will
furnish you with green and bronze at 50c per 1000. Cash on delivery.

ELECTROS...
For Catalogue Purposes.
WE have a large assortment of strictly high-class halftones of
which we can supply electros suitable for catalogue illustration.
If you need anything in this way, state your requirements and
we will submit proofs of the illustrations in stock.
Price for cash only 15 cents per square inch.
THE AMERICAN FLORIST CO.,
324 Dearborn St., CHICAGO.

E. C. AMLING,
The Largest, Best Equipped and Most Centrally Located Wholesale Cut Flower House in Chicago.
All Flowers In Season.
During July and August, we close at 5 p. m.
Long distance 'Phones 1977 and 1999 Central.
32-36 Randolph St. CHICAGO, ILL.

PRICE LIST.

BEAUTIES.

34-inch stems, per doz.,	\$2.00
20 " " " "	1.50
16 " " " "	1.00
12 " " " "	.75
6 to 8-in, " per 100	\$4.00 5.00

Per 100

Brides.....	\$2.00	4.00
Maids.....	2.00	4.00
Meteors.....	2.00	4.00
Gates.....	2.00	4.00
Carnations.....	1.00	1.50
Callas, per doz., 1.00	1.25	
Auratum, per doz., 1.00	1.25	
Gladiolus, per doz., 25c to 35c		
Asters.....	1.00	1.50
Valley, select.....	4.00	5.00
Asparagus plumosus, per stg.,		.50
" Sprenger.....	2.00	4.00
Galax.....	1.25	.15
Ferns.....per 1000, \$1.00,		.15
Adiantum.....	.50	.75
Smilax.....per doz., 1.00	1.25	

Prices subject to change without notice

J. A. BUDLONG
37-39 Randolph Street, CHICAGO.
Roses and
Carnations
A Specialty.....
WHOLESALE
GROWER of **CUT FLOWERS**

Wholesale Flower Markets
CHICAGO, August 1.

Roses, Beauty, 24-inch stems	2.00
" " " 20 " " "	1.50
" " " 15 " " "	1.00
" " " 12 " " "	.75
" " " 6 to 8 " " "	per 100 4.00@ 5.00
" Bride, Bridesmaid.....	2.00@ 4.00
" Meteor.....	2.00@ 4.00
" Perle.....	2.00@ 4.00
" Golden Gate.....	2.00@ 4.00
Carnations.....	1.00@ 2.00
Asters.....	1.00@ 1.50
Gladiolus.....	2.00@ 3.00
Lily of the valley.....	4.00@ 5.00
Harrisii.....	6.00@10.00
Auratum, per doz., 1.00@1.25	
Callas per doz., 1.00@1.25	
Cattleyas.....per doz.	6.00
Sweet peas.....	.15@ .25
Asparagus, per string,	.50
Adiantum.....	.50@ .75
Common ferns, per 1000, 1.00	.15
Galax leaves, per 1000.....	\$1.25 .15
Smilax.....per dozen	1.15@ 1.50

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Cut Flowers,
51 WABASH AVENUE,
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WHOLESALE FLORISTS and
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Prompt returns on all consignments.
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Send for weekly price list and
special quotations on 1000 lots.

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CHICAGO'S RELIABLE
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CUT FLOWERS,
59 Wabash Ave., Chicago.
SEND FOR WEEKLY PRICE LIST.
WHOLESALE FLORISTS

GALAX Bronze or green, 75c per
1000, in 2 0/3 lots or over;
single 100, \$1.00. Fern,
Fancy, \$2.50 per 1000; Fern, Dagger, \$1.50 per 1000.
Leucothoe Sprays, bronze and green, assorted sizes,
\$1 per 100. Green sheet moss, \$2.50 per bbl. bag.
L. J. KRESHOVER,
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Telephone call, 597 Madison Square.
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F. F. BENTLEY, Manager,
Wholesale Commission Florists
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Consignments solicited.....

Extra Fine VALLEY
During the summer, \$1.00 to \$5.00 per 100.
H. N. BRUNS,
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**Chicago Carnation
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Reach all
the Trade.

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During July and August will be open from 7:30 A. M. to 6.00 P. M. Saturdays, close at 1.00 P. M.

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15 PROVINCE STREET.

FANCY and DAGGER FERNS
75 CENT @ PER 1000.

BRONZE OR GREEN GALAX \$1.00 PER 1000.

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ELECTRO OF THIS LEAF, POSTPAID, \$1.25.

American Florist Co.,
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Boeron, July 30

Roses, Beauty, extra	10.00@20.00
" " medium	5.00@ 8.00
" " culls	.50@ 2.00
" Queen of Edgely	10.00@16.00
" Bride, Bridesmaid, Meteor, extra	.50@ 2.00
" Kaiserin Carrot	4.00@ 6.00
" 3.00@ 6.00	
Sweet peas	.05@ .10
Carnations	.25@ 1.00
Asters	1.00@ 2.00
Lily of the valley	2.00@ 4.00
Lilies	3.00@ 5.00
Adiantum	.75@ 1.00
Asparagus	50.00
Smilax	15.00@ 20.00

PHILADELPHIA, July 31.

Roses, Tea	3.00@ 4.00
" " extra	5.00@ 6.00
" Beauty, extra	20.00@25.00
" " firsts	8.00@20.00
" Queen of Edgely, extra	20.00@25.00
" " firsts	10.00@15.00
Carnations	1.00@ 1.50
Lily of the valley	3.00@ 4.00
Asparagus	20.00@25.00
Smilax	10.00@15.00

BUFFALO, July 31.

Roses, Beauty	6.00@35.00
" Br'de Bridesmaid, Meteor	4.00@ 7.00
Carnations	1.00@ 2.00
Sweet peas	.25@ .50
Lily of the valley	3.00@ 4.00
Smilax	15.00@20.00
Adiantum	1.00@ 1.50

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HARDY Cut Dagger and Fancy Ferns.
A No. 1 quality \$1 per 1000.
Brilliant Bronze and Green Galax, \$1 per 1000, in 5, 10 Clots.
Laurel Festooning, 4, 5 and 6¢ per yard. Orders by mail, telephone or telegraph promptly attended to. Discount on large orders. L. D. telephone 2618 Main.

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PRICE 15 CENTS POSTPAID.
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During July and August store will be open from 7 a. m to 6 p. m.

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ORCHIDS, ROSES, CARNATIONS, VALLEY.

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Choice Carnations. Selected Roses.

Traendly & Schenck

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New York, July 30.

Roses, Beauty, select	15.00@25.00
" " medium	5.00@12.00
" " culls	.50@2.00
" Bride, Bridesmaid	.50@6.00
" Liberty, Meteor	1.00@5.00
" Testout, Kaiserin, Carnot	1.00@5.00
Carnations	.25@1.00
Lily of the valley	1.00@2.00
Callas, Lilies	3.00@5.00
Sweet peas, per 100 bunches	1.00 2.00
Cattleyas	25.00@40.00
Smilax	8.00@10.00
Aspidistra	.50
Asparagus	35.00@50.00
" Sprengeri, per doz. bun.	2.00@3.00

RELIABLE AT ALL SEASONS.

Best Flowers.

REASONABLE PRICES.

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Largest Grower of... Cut Flowers in the West.

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WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

ONION seed prospects in Connecticut are good, but the crop is not yet out of danger.

CONTINUED drought in growing districts makes present outlook for good crop of tuberose and caladium bulbs unfavorable.

FRED. H. HUNTER, with the Cox Seed Company, San Francisco, and Miss Dorothy Miller were married at Salinas, Cal., July 21.

NEW ORLEANS, LA.—At the recent liquidation sale of the stock and fixtures of the Eichling Seed and Nursery Company, it is stated that C. W. Eichling purchased some of the stock and will continue business at the old stand.

VISITED CHICAGO: Jesse E. Northrup, of Minneapolis, Minn.; G. C. Thompson, representing R. & J. Farquhar & Company, Boston, Mass., returning from the Wisconsin pea fields; W. Atlee Burpee and wife, returning from the Pacific coast.

C. H. REED, of the Amzi Golden Company, Birmingham, Ala., will leave home in a few days to join his wife and family, who are spending the summer at Milwaukee and Lake Geneva, Wis. He will stop off at Chicago to call upon the trade.

MUSCATINE, IA.—Continuous rains and cold weather have injured the crops in this section very much. Tomatoes are nearly a failure; egg plants and peppers are looking healthy, but they are too late to make a large crop of seed; melons will not be over half a crop.

The Bermuda Lily Situation.

The Bermuda lily bulb crop turned out larger than expected. Favorable weather conditions produced good healthy growth of foliage which ripened down well and the entire crop is remarkable for plumpness and substance. Considerably more have been harvested than could have been anticipated till digging time but whether there will be ultimately any material surplus of bulbs is not yet known, as when our informant left Bermuda last week harvesting was not completed. The healthy growth referred to would fairly justify the confidence that there may be less trouble than formerly from diseased plants under forcing conditions.

Holland Seed Crops.

A Holland firm of growers sends the following report, dated last month, on the condition of the seed crops:

In a general way much of the seed crops of such biennial vegetables as cabbages and swedes was lost before the winter owing to the drought which prevailed last autumn, accompanied by insects. The winter itself did comparatively little harm, but the spring, especially the month of May, has been so continually cold that everything was quite backward, a condition which has changed for the better since fine weather set in. The stand of cauliflower is good but it is yet too early to judge of the crop. What was safely carried through the winter of white, red and savory cabbages and brussels sprouts developed well and promise middling crops. Only



LOVING CUP PRESENTED TO THE RETIRING PRESIDENT BY THE MEMBERS OF THE AMERICAN SEED TRADE ASSOCIATION.

a few plants of borecole were saved, so that we expect a small crop. Turnips as a whole stood the winter well and look promising. The stand of swedes is very good; kohlrabi is a middling crop; mangel-wurzels, beets, sugar beet, carrots, parsnips and scorzonera promise a good crop. Much cornsalad was sown and the stand is good. Some of the radishes have suffered from insects but the rest of the crop looks promising. The stand of Spanish radish, onion and garlic is good; celeriac middling; parsley and borage very good; chervil an average crop; spinach a little backward but stand good; peas look very well; English beans have a promising appearance; dwarf and runner beans have just started growing and look well.

The continual cold weather during May more or less interfered with most of our crops, but particularly those of the flower seeds. Although most items were backward for a long time, many sorts have recovered since favorable weather set in, so that as a whole present prospects are pretty good. The stand of antirrhinum, calliopsis and campanula is good; some plantations of candytuft have suffered badly from insects but otherwise the stand is good; centaurea and convolvulus look promising. The stand of dianthus, eschscholtzia, gypsophila, heli-chrysum and lobelia is good; mimulus very good. The stand of mignomette is uneven and the crop will be hardly middling. A great many of the myosotis were lost in the drought the preceding winter, but those that were carried through look pretty well. Nasturtium are a little backward, but the stand is very good; nemophilas, papavers, petunias, rhodanthes and Phlox Drummondii are promising. Virginian stocks have been partially hurt by insects, but those that were not so injured look satisfactory. It is too early yet to judge of the crop of the sweet peas. The stand of

ten-week stocks is very good; verbenas and violas look promising; wallflowers very good.

San Francisco.

TRADE BEGINS TO AWAKEN FROM THE SUMMER SOLSTICE.—BIG CROWDS COMING IN AUGUST.—MANY PERSONAL AND OTHER DOINGS OF NOTE.

For the month of July business has been very poor, as is usually the case, but it has commenced to pick up a little the last week and from now until the middle of October it will be good. People are returning from the country and the Knights of Pythias meet here the middle of August, with almost 100,000 visitors from the east. The stores will put on their best array and then there will be the fruit and flower show in the Ferry building.

At the last meeting of the Pacific Coast Horticultural Society nine new members were elected, bringing the membership up to 150, with many more applications in view.

E. W. McLellan, of Burlingame, has changed his city wholesale quarters to a more convenient and airy store a block further down the street.

F. Abie has gone on a three months' visit to Switzerland. He is suffering from lung trouble, from which he hopes to find relief.

Clark Brothers, of Fruitvale, are building another house 20x100, making eight houses in all.

T. H. Stevenson has returned from his visit to England. GOLDEN GATE.

GROTON, MASS.—Mrs. Low is about to open a school of horticulture at her place, Lowthorpe. Miss Louise Miller, who was last year at the Briarcliff school in Westchester, New York, is to be one of the teachers.

Our Pansies, Cannas and Roses received gold medals at the Omaha Exposition in 1898 and the Pan-American Exposition in 1901.



MASTERPIECE.

VAUGHAN'S "INTERNATIONAL"

Received the only reward for Mixed Pansies at the World's Fair. It is to-day better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence, as all the florists who saw or used it can tell you. Price per oz., \$10.00; 1/2 oz., \$5.00; 1/4 oz., \$1.50; trade pkt., 50c.

VAUGHAN'S "GIANT MIXTURE."

This mixture is specially made by us from all the separate colors of Giant Trimardeau, the Giant Bugnot and Cassier and several special strains which cannot be had any other way. If your trade demands large flowers there is no better mixture. Price, 1/4 lb., \$14; 1/2 oz., \$4; 1/8 oz., 60c; 1d. pkt., 25c.

VAUGHAN'S PREMIUM MIXTURE.

Embraces all the varieties of the Fancy German Sorts. We have sold this mixture for the past 16 years and it has given general satisfaction. Per pkt., 25c; 1/4 oz., 80c; 1/2 oz., \$3.00; oz., \$5.50.

IMPROVED GERMAN MIXTURE.

This is a mixture of three strains from different German growers, and is made up mostly of separate colors, with a sufficiently large percentage of white and yellow. Per large pkt., 25c; 1/2 oz., 40c; 1/4 oz., 60c; oz., \$2.00.

BELLIS OR DOUBLE DAISY.

VAUGHAN'S	Trade Pkt.	Oz.
Mammoth Mixture.....	1-16 oz., 15c	\$25
Mammoth White.....	1-16 oz., 4c	.25
Mammoth Pink.....		.25
Double Extra Choice, mixed, 1/8 oz., 4c	.15	\$2.50
Fine mixed.....	1/8 oz., 25c	.10 1.50
Albus Plenus, double white.....	1/8 oz., 3 c	.15 2.00
"Longfellow," dark pink.....	1/8 oz., 35c	.20 2.50
"Snowball," double white.....	1/8 oz., 35c	.20 2.50

MIGNONETTE, TRUE MACHET.

The seed we offer produces dwarf, vigorous plants of pyramidal growth, with very thick, stout flower stalks. Finest in every way for florists' use and for pots. We have tested this with several of the fancy named strains and always with results favorable to our seed. Trade pkt., 10c; 1/2 oz., 25c; oz., 50c; 2 ozs., 75c; 1/4 lb., \$1.25.

CINERARIA VAUGHAN'S COLUMBIAN MIXTURE. A mixture of the best English and German strains, unsurpassed. Pkt. (1000 seeds) 50c; 3 pkts. \$1.25.

CINERARIA HYBRIDA, LARGE FLOWERING, white, blood-red or crimson, double white or best double mixed, each, per trade pkt., 50c.

CALCEOLARIA HYBRIDA, choicest mixture, pkt. 50c. 10 PER CENT discount on flower seed orders amounting to \$2 and over for Cash with order.

"Vaughan's International" Primrose Mixture.

Unquestionably the best mixture of Chinese Primroses. It contains the largest variety of the best selling colors. Flowers large, beautifully fringed, borne in large clusters well above the rich green leaves. Pkt. (250 seeds) 50c; 5 pkts. (1250 seeds) \$2.00.

CHINESE PRIMULA, Chiswick Red; Alba Magnifica, white; Blue, Pink, Striped. Each, per pkt. of 250 seeds, 50c; 1000 seeds, \$1.75.

DOUBLE CHINESE PRIMULA, white, pink, red or mixed, per pkt. 50c.

VAUGHAN'S SEED STORE, 14 Barclay Street, New York. 84-86 Randolph St., Chicago.

ESTABLISHED 1802

THORBURN'S SEEDS

FREESIAS, CALLAS, LILIUM HARRISII, ETC., ETC.

If our trade bulb list has not been received, we shall be glad to send it on application.

J. M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

CINERARIA GIANT PRIZE, pkt., 5c.
 CALCEOLARIA GRANDIFLORA, pkt., 50c.
 PRIMULA CHINESE FRINGED, pkt., 50c.
 CYCLAMEN Giganteum, 100 s. 75c; 1000, \$6.
 PANSY SUPERB MIXTURE, oz., \$5 00.

W. G. BECKERT, Allegheny, Pa.

ASPARAGUS PLUMOSUS

3-inch strong, \$5.00 per 100.

SMILAX, 2-inch, strong, \$1.50 per 100.

BONE MEAL. Best in the market for Florists' use, \$3.50 per 200 lb. bag.

ALBERT M. HERR, Lancaster, Pa.

When writing to any of the advertisers on this page please mention the American Florist.

JUST ARRIVED!

First Consignment of

French Bulbs.

WE CAN SUPPLY FOR IMMEDIATE DELIVERY:

WHITE ROMAN HYACINTHS, finest quality bulbs, 12 to 15 cm. in circumference, \$3.00 per 100; \$26.00 per 1000.

NARCISSUS PAPER WHITE GRANDIFLORA, \$1 per 100; \$9 per 1000.

CALLAS—We can offer an unusually fine stock of these for delivery early in August at the following low prices, viz:

Extra quality bulbs, 1 1/4 to 1 1/2 inches diameter, \$5.00 per 100; \$40.00 per 1000.

Selected bulbs, 1 1/2 to 1 3/4 inches diameter, \$6.00 per 100; \$50.00 per 1000.

Mammoth bulbs, 1 3/4 to 2 inches diameter, \$8.00 per 100; \$70.00 per 1000.

Exhibition bulbs, 2 to 3 inches diameter, \$10.00 per 100.

LILIUM HARRISII—Finest selected bulbs, 6 to 7 inches in circumference, case 350 bulbs for \$17.50; in less quantities, \$6.00 per 100.

Finest selected bulbs, 7 to 9 inches in circumference, case 200 bulbs for \$20.00; in less quantities, \$11.00 per 100.

LILIUM LONGIFLORUM, (Bermuda grown)—Bulbs 7 to 9 inches in circumference, case 200 bulbs for \$20.00; in less quantities, \$11.00 per 100.

BERMUDA BUTTERCUP OXALIS, 75c per 100; \$6.00 1000.

F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, N. Y.

IF IN NEED OF

Brides, Bridesmaids and Golden Gates

Strong 3 1/4-inch pot plants, drop me a line. No better plants offered anywhere. Price \$6 per 100.

S. S. SKIDELSKY,
 703 NORTH 16TH ST., PHILADELPHIA.



SMILAX

Fine, large, strong plants, ready to run, \$1.50 per 100; \$13.00 per 1000. They will please you.

TRUST CASH, PLEASE.
C. HUMFELD,
 CLAY CENTER, KAN.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. IJGENFRITZ, Ptos.; D. S. LAKE, Vice-Ptos.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

In the search of foreign fields the nurseryman should not overlook his home market.

Many nurserymen are going into landscape architecture, finding it a considerable aid to their business.

WILLIAM PITKIN, of Rochester, says that of all the nursery stock grown in New York seventy-five per cent is sold outside the state.

The Illinois Central Railroad Company is preparing to set out eighty acres of catalpa trees near Duquoin, Ill. The company has a number of such tracts of catalpas, producing post and tie timber.

Texas Nurserymen's Association.

The Texas Nurserymen's Association met at College Station July 17, with a large attendance. Much interest was manifested and good reports were presented from all parts of the state, showing large crops of fruit, large supplies of salable nursery stock and a demand which promises to consume everything available. E. W. Kirkpatrick, of McKinney, is president of the association, J. S. Kerr, Sherman, secretary.

Cleveland.

RAINS RESULT IN RUIN OF FIELD STOCK.—ASTERS AND CARNATIONS SUFFER MOST.—STOCK SCARCE AND OUTSIDE ORDERS GO UNFILLED.—PERSONAL DOINGS AND OTHER NOTES.

Unless weather conditions change the outlook for the average florist hereabouts is not very encouraging. The continuous wet weather has wrought havoc with the outdoor flowering stock. Asters are a failure and carnations are suffering. Stem rot has made its appearance and from present indications it will be a repetition of last season's disaster. Indoor planting of all kinds has been delayed beyond the limit, as it is impossible to get soil in condition. Those who were fortunate enough to get their rose stock planted before the deluge will certainly reap the benefit this fall. All kinds of flowers are scarce. The wholesalers are turning down scores of out of town orders daily. Anratum and speciosum lilies are in large supply but there is no great demand for them. Gladioli are becoming plentiful. Sweet peas are scarce, the rains having drowned them out. A few early dahlias are in evidence. Roses are nil.

The club at its last meeting decided to hold another picnic during the latter part of August or the first week in September. The following committee was appointed to select a suitable place: H. A. Hart, Isaac Kennedy, John C. Kelly and J. C. Andrews. This is to be an old-time outing and the expense will in all probability be borne by the club exchequer. Asheville and the convention was the chief topic of conversation at the meeting. The delegation from here will number anywhere from eight to twelve. The miserable weather we have had for the past two months has retarded operations to such an extent that a number of the growers find it impossible to get away even for a week. We all hope a good showing will be made. And we are

confident those who attend will never regret it, as North Carolina is undoubtedly the garden spot of America.

The club held a picnic out at Euclid Beach Park, Tuesday of last week, and had a fairly enjoyable time. Boating, bowling, dancing and drinking pop and pink lemonade were the chief features of enjoyment. The park is strictly "dry," hence the eagerness of members to hold their outing there.

Charley Graham has returned from a two weeks' vacation on the farm, where he spent most of his time speeding his trotter. Charley, besides being a hustling florist, holds the enviable reputation of being the champion indoor baseball pitcher of Cleveland.

Andrews Brothers say this has been one of the worst seasons they have ever experienced for berry growing.

The Grant-Wilson Company reports a very prosperous season in its new quarters.

Visitors: Will Schulz, Youngstown, O.; J. A. Shaw, New York; H. Thaden, Atlanta, Ga. Echo.

Cincinnati.

FLORISTS ENJOY AN OUTING.—MOST SUCCESSFUL IN THE HISTORY OF THE SOCIETY.—LARGE ATTENDANCE AND FINE PROGRAMME OF AMUSEMENTS.—BUSINESS THE BEST EVER RECORDED FOR MIDSUMMER.—VARIOUS NOTES OF LOCAL INTEREST.

The florists' outing on Thursday of last week was one of the most enjoyable affairs the society has ever had. The base ball game between the young blood florists was a dandy, as the score, 7 to 6, would indicate. It was a warm contest and "Billy" Rodgers, who acted as umpire, had his troubles, but was master

of the situation. The young ladies' running race was also worthy of mention. Miss Pfeiffer, of Newport, was the winner. The other contests, such as sack races, egg and spoon races, and so forth, were all very good and brought out a great many participants. The tug of war between the married men and single men looked to be a cinch for the single men, but it was impossible for the bachelors to budge the benedicts. Upon investigation, however, it was found that the married men had the end of their rope tied to a post and the decision was awarded to the single men. "Tom" Jackson's team won the bowling contest and Jackson himself won the individual prize, \$5, for the highest score. Too much credit cannot be given "Ben" George for the services rendered in arranging the outing, assisted by Messrs. Murphy, Rodgers and Rudolph. Norwood Inn Park is an ideal place for such a picnic.

The past month was the best July from a business standpoint in the history of this city. All florists, without exception, unite in saying this. The flowers received the past week have improved wonderfully in quality. Gus Meier is sending in some first-class Brides and Bridesmaids. J. A. Peterson is right in it on asters and George & Allan's lily of the valley is also very good. Some very good carnations are received from Michigan and gladioli and other outdoor flowers are plentiful.

Will Murphy says carnations in the field were never better. He is going to put his new one, Murphy's White, on the market the coming season. It is one of the best received in this market.

The Fall Festival Association has sent a notice to the florists that it will give \$500 in premiums this year, provided the florists get up a suitable display.

D.

NURSERY STOCK

At Wholesale.

We grow largely of Ornamental Trees, Shrubs, Vines, etc.

Large stock of Elms, Maples, Lindens, Poplars, etc.

25,000 Clematis Paniculata, 1, 2, 3 and 4 years.

10,000 Honeysuckle, 2 and 3 years.

5,000 English Ivy, pots, 1, 2 and 3 years.

SEND FOR SPECIAL PRICES.

THADDEUS N. YATES & CO., Germantown, Philadelphia, Pa.

Park Architects and Dealers

will find whatever they want in the

Holland Nurseries, DeBilt near Utrecht HOLLAND.

SPECIALTIES ARE: Conifers, Evergreens, Hardy Shrubs, Lilacs, Ornamental Trees, Fruit Trees in different forms, Azaleas, Rhododendron Ponticum and Hybridum.

Please send list of your wants and write for general catalogue. We will make you special offers. Write to

GROENEWEGEN & ZON, De Bilt, near Utrecht, Holland.

B. W. DIRKEN,

Oudenbosch, Holland.

ORNAMENTAL AND FOREST TREES A SPECIALTY.

Conifers, Evergreens, Hollies, Etc.

*** Prices on Application.

Strawberry Plants.

FROM POTS. Well established young plants of Clyde and Wadfield, (both immense croppers), for planting now and in August. Warranted to produce a full crop of the finest berries next spring. Price 50c per doz.; \$3.00 per 100. P. S.—100 planted now will give an ordinary family all they can use.

F. A. BALLER, BLOOMINGTON, ILL.

LAUREL HILL Nurseries.

F. BRUNTON
Manager

Importers and growers of Choice Hardy Perennials. Native Trees, Shrubs, Specimen Evergreens. We grow large quantities of Iris, Paeonias, Tritomas, Phlox, Delphiniums; stock is perfectly hardy, true to name. Send for Special Catalogue of New Hardy Alpine Iris, now in the press. STOCKBRIDGE, MASS., U. S. A.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

THE
Asheville
Number



To Be Issued
August 16,
1902.



FOR many years the **American Florist** has issued one of its Special Numbers prior to each annual convention of the Society of American Florists. These Special Numbers have become so well known for their fine printing and illustrations, for their valuable trade text and for the business bringing qualities of the well displayed special advertisements, that it is unnecessary to dwell upon these matters. The Special Numbers are looked forward to by thousands of subscribers, read, preserved and re-read. Advertisers hear from them for months.

The **Asheville Number**, to be issued August 16, will, in many interesting features, excel even the Buffalo Number of a year ago. It will reach practically everyone in the trade in the United States and Canada whose business is worth consideration; also leading foreign houses.

Advertisements in body pages will be taken at our ordinary rates, namely \$1 per inch, \$30 per page of thirty inches, with the usual discounts on time contracts. Advertisements on second, third and fourth **SPECIAL COVER PAGES** (printed on heavy toned paper) \$30 per page, net.

In order that you may be given the best possible position and display, please **mail your advertisement now.**

**AMERICAN FLORIST
COMPANY,**

324 Dearborn St., Chicago, U. S. A.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

The Chicago Florists' Club picnics August 12. The committee has a number of fine prizes for the athletic and other contests.

NATICK, MASS.—The aggregation from the Boston Flower Market came out here again last Saturday and once more walloped the local base ball team to the tune of 18 to 12. One of their number was badly hurt by a blow from the ball, sustaining a cut in the face which required the attention of the surgeon.

At Flatbush.

At the Flatbush alleys, Thursday, July 31, Louis Schmutz made his first appearance since his recent severe injury and was cordially received. Following is the score:

Player	1st	2d	3d
Dailledouze, P.	133	127	97
Riley	197	156	170
Schmutz	123	148	114
Raynor	113	157	88
Dailledouze, H.	128	123	111
Mellis	162	117	118
Woche	113	132	123
Stewart	101	100	111

Philadelphia Gardeners' Cricket League.

Wolruh met Wootton on Saturday, July 26, at Wootton, the estate of G. W. C. Drexel, Bryn Mawr, Pa., and received a severe drubbing, being completely out-

played in every department of the game. The score follows:

WOOTTON.

S. Hammond not out	30
J. Hirsch b Archfield	3
W. Burnett b Archfield	2
G. Cummings b Blackman b Gardner	12
W. Walters b Thatcher	3
T. Long b Thatcher	1
G. Hollingsworth h c and b Blackman	1
W. Buchanan b Thatcher	1
J. Dennis b Gardner	9
J. Brown b Gardner	3
T. Cummings c Gardner b Blackman	0
C. Thompson c Fowler b Blackman	0
Extras	8
Total	73

WOLRUH.

J. Blackman b Hammond	5
T. Archfield c Hirsch b Hammond	0
G. Gardner c and b Hammond	1
J. Hirsch c Cummings b Hammond	0
A. Harding b Hollingsworth	2
F. Cannon b Hammond	0
J. Doids b Hammond	0
J. Cullen b Hollingsworth	1
T. Kerr b Hollingsworth	1
M. Roberts not out	3
W. Fowler c Burnett b Hammond	0
Extras	3
Total	16

F. C.

At Philadelphia.

There was a red hot time on the alleys last Thursday, July 24. It was a game between those who won places on the Asheville team and those who failed. The tie between George Craig and George Watson in the contest for sixth place was bowled off in the afternoon on the Elks' alleys, Watson winning out, 446 to 424. With the exception of Eimerman, who took Starkey's place, he being unable to bowl, the full Asheville team was up. There was a great deal of good-natured bantering, particularly by the Harris boys, but the Asheville boys laughed and

held their own for the first two games and led then by seventy-three pins. The third game, however, made a change, as the Harris boys set a very warm pace and fairly smothered the Asheville's and made them look like the proverbial "30 cents." They had to break the alley record for one six-man game to do it, making 1,108 the last game, which takes some of the sting out of the defeat. The score follows:

ASHVILLERS	1st	2d	3d	T'1
Moss	175	148	175	498
Anderson	143	166	147	456
Kilt	171	221	193	586
Robertson	116	133	107	356
Watson	114	164	110	378
Eimerman	173	168	189	530

Totals	892	1001	911	2804
HARRISHS	1st	2d	3d	T'1
Harris	116	152	193	468
Westcott	146	139	213	498
Gibson	121	148	161	430
Polites	183	182	183	548
Adelberger	135	141	171	447
Connor	178	169	187	534
Totals	879	938	1108	2925

K.

MERIDEN, CONN.—Edwin T. Dunne, of West Main street, has discontinued business.

SALT LAKE CITY, UTAH.—Trade is very quiet. The new Florists' Society is planning a big picnic.

UTICA, N. Y.—F. J. Baker has just finished two new houses which will be devoted to fern growing. He now has seventeen houses, all in good, modern condition, and a total of 25,000 feet of glass.

INNERKIP, ONT.—On the afternoon of July 14, a severe hailstorm passed over this city, breaking more than 1,500 panes of glass in Fred. Mitchell's greenhouses. Hailstones were measured and found to be over an inch in diameter.



THE ST. LOUIS FLORISTS ON A PICNIC. PHOTOGRAPH BY OSCAR C. KUEHN.

(See St. Louis news letter, page 9.)

Lilium Harrisii.

PACKED BY OUR OWN GROWERS.



SPECIAL FORCING SIZES

6 to 7-INCH This grade can be depended on for more uniform growth when forced, avoiding much shifting and rehandling of plants.
\$5.00 per 100; \$18 00 per case of 333 Bulbs.

7 to 8-INCH This is another uniform size, producing more blooms and saving a good margin over cost of regular 7 to 9 size. We are the first to offer this valuable grade assorted as above.
\$8 00 per 100; \$19.00 per case of 250 Bulbs.

We have a Full Stock of the Regular Grades

5 to 7-inch, 400 in case; 7 to 9-inch, 200 in case; 9 to 11-inch, 100 in case.

Now on dock and ready for shipping. Prices on quantity quoted on application. Customers wanting late dug bulbs can still be supplied. We have a few thousand all sizes which we will dig and pack on special orders in thousand lots at quoted rates. Delivery in two weeks.

VAUGHAN'S SEED STORE

14 Barclay Street, NEW YORK. 84-86 Randolph St., CHICAGO.

WM. LARZELERE & CO.

(Established 1866.)

Custom House Brokers

Licensed under U. S. Laws.
 Notaries Public authorized to administer Customs declarations.

PHILADELPHIA: 126 South 4th St.
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With correspondents in principal ports of the U. S. and Europe. All matters relating to Customs laws attended to on both Imports and Exports. Information given as to classification and values, and method of shipping goods to and from the United States. Florists can save time and money by consulting us in writing or person at our Philadelphia or New York offices.

Orders booked now—delivery in September—for my Nephrolepis Fern

"ANNA FOSTER"

Small plants, \$25.00 per 100; larger plants prices on application.

L. H. FOSTER, 45 King St., Dorchester, Mass.

Latania Borbonica

For growing on, fine plants, 3-inch pots, \$6.00 a hundred.

J. B. HEISS, The Exotic Nurseries,
 DAYTON, OHIO.

All The Best CARNATIONS

Orders booked now for fall delivery.

SEND FOR PRICES.

Rotted cuttings and young plants all out.

GEO. HANCOCK & SON,
 GRAND HAVEN, MICH.

ROSES FOR WINTER FLOWERING

PERLES, BRIDES, MME. HOSTE, 3-inch pots, \$6.00 per 100.
 IVORY, American Rose Co.'s Stock, \$9.00 per 100.
 BEAUTIFULS, CONTIERS, SAFRANO, GOLDEN CATES.

GRAFTED IVORY, American Rose Co.'s Stock, \$18.00 per 100.
 GOLDEN CATE, very fine, \$12.00 per 100.
 BRIDESMAID, 3 1/2-inch pots, \$12.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

Import Freight Agents Delaware, Lackawanna & Western Railroad Co. at New York, N. Y.

ENERGY. ECONOMY. DISPATCH.

F. B. VANDEGRIFT & CO.,

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NEW YORK Office, 66 Beaver Street | Telephone, 928 Broad. | A. B. C. Code Used | Cable Address, Vangrift. | CHICAGO Office, 315 Dearborn St. | Phone, Harrison 840.

A FEW GOOD THINGS YOU WANT.
KENTIA Belmoreana and Forsteriana, also Arca Lutescens, 3 plants in a pot, extra clean and well grown plants, 2 1/2, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
REX BECONIA, 2 and 3-inch, \$1 and \$6 per 100.
BOSTON FERN, \$1, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.
FERN, Cordata Compacta, 2 and 3-inch, \$4 and \$10 per 100.
ASPARACUS Plumosus, 2-inch, \$5; 3-inch, \$8 Sprengeri, 2 inch \$3; 3 inch, \$5, per 100.
DRACAENA INDIVISA, 3, 4 and 5-inch, \$6, \$10, \$25 per 100.
ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100.
 A full line of the best bedding **CERANIUMS** for stocking up, 2-inch, \$3; 3-inch, \$5 per 100.
SMILAX, Vinca Var., Campbell Vio'ets, Lobelia, Coleus, Alternanthera, Ageratum, Scarlet Sage, Lemon Verbena, Giant Alyssum, 2-inch, \$2; 3-inch, \$4 per 100.
 Let me price your wants. Cash or C. O. D.
 GEO. M. EMMANS, NEWTON, N. J.

ONION SETS—NO MORE OF THEM.
Sow my Hardy White Onion.
 SEND FOR CIRCULAR.
 BEAULIEU, the Pansy Man, WOODHAVEN, N. Y.

Chrysanthemum...

TIMOTHY EATON, well-rooted cuttings, \$2.25 per 100. Sample 2 1/2 for 50 cts., express prepaid. Plants, \$3.00 per 100, express not prepaid. All healthy and strong.

Geraniums...

1,500 S. A. Nutt, 500 La Favorite, from 2 1/2 and 2-inch pots, mostly 2 1/2-inch, large per cent in bloom or bud, ready shift, \$1.50 per 100; \$14.00 per 1000.
 Unrooted cuttings of S. A. Nutt, 70 cents per 100; \$5.00 per 1000. Cash with order.

DES MOINES PLANT CO.,

38th St., Des Moines, Iowa.

SMILAX 2-inch, \$1.00 per 100.

ROSES Brides and Maids, 2-inch, \$2.00 per 100; \$18.00 per 1000.

McALLISTER & COMPANY, Balavia, Ill.

Pittsburg.

LITTLE DOING IN A BUSINESS WAY.—MORE STOCK THAN DEMAND.—DOINGS OF THE GROWERS.—IMPROVEMENTS IN ORDER.—PERSONAL MOVEMENTS.—VACATIONS.

The volume of business is much less than for the preceding week. The supply of roses is more than equal to the demand. Liberty is the best rose we get. Kaiserin, Bridesmaid and Bride are better than they were a month ago. Asters are an important factor. Beauties are worthless. Auratum lilies are very fine. Carnations are inclined to be small, sleepy and of poor color.

John L. Wyland, of De Haven, will erect a new carnation house 18x130 feet and a new potting shed. He is now sinking a gas well and expects to find gas at 2,000 feet. He is going to try his luck with poinsettias, for there is a splendid market for them. Mr. Wyland's peach crop, which was so very large last year, will be a complete failure.

W. J. Campbell, of Castle Shannon, is a very successful grower of gladioli. He has one acre of them under cultivation and intends embarking in the business of cut flower growing as soon as he winds up some business that demands a great deal of his time at present. He has the material at hand for a house 20x100 feet.

C. Betscher, of Canal Dover, Ohio, has introduced several new colors and shades of gladioli, which were exhibited at the Pittsburg Cut Flower Company's during the week. Augusta, Mrs. Le Mons, Grand Rogue and Dr. Parkhurst are among the best.

A severe hail storm passed over Greensburg and surrounding country Thursday night of last week. Wm. Cronack, of Irwin, reports his loss to exceed \$200.

John Bader sent a letter from London stating that he was having the time of his life. He was preparing to proceed to Germany.

The August meeting of the Pittsburg and Allegheny Florists' Club has been declared off.

"Bob" Herron, of Lam & Company, will spend the next two weeks in the country.

"Billy" Hall and family depart Saturday for Niagara Falls, to be absent two weeks.

Harry Dillenuth, of Dunlop's, Toronto, spent three days in Pittsburg last week.

Charles Koenig continues to send in some exceptionally fine Kaiserins.

E. L. M.

Burbank's Shasta Daisy

3-inch, \$15.00 per 100.

Burbank's Shasta Daisy seed, 1902, 25c per 100; \$2.00 per 1,000; \$18.00 per 5,000; \$30.00 per 10,000.

Asparagus Plu. Nanus, extra fine, 2½-inch, \$5.00 per 100.

Prices given on Carnation Plants.

EXPRESS PREPAID.

CALIFORNIA CARNATION CO.
LOOMIS, CAL.

SMILAX

2-inch, strong, 75c per 100.

SPRENGERI, 2-inch, strong, \$1.50 per 100.
2½-inch, strong, \$2.00 per 100.

M. J. COVENTRY, Fort Scott, Kan.

Please mention the American Florist when writing.



ARECA LUTESCENS, per doz.—2¼-inch, 75c; 3 ½; 3¼, \$2; 4, \$3.
KENTIA BELMOREANA, doz.—2¼-in., \$1.50; 3, \$2; 3¼, \$3; 4, \$3.60.
KENTIA FORSTERIANA, per doz.—2¼-in., \$1.50; 3-in., \$2; 3½-in., \$3; 4-in., \$4.
LATANIA BORBONICA, per doz.—2¼-in., 60c; 3-in., \$1; 6-in., \$7.20; 7-in., \$10; 8-in., strong, \$18.
PANDANUS VEITCHII, per doz.—5-in., \$12; 6-in., \$18; 7, \$30; 8, \$42.
NEPHROLEPIS BOSTONIENSIS, per 100—3-in., \$8.00. Per doz.—5-in., \$3; 7-in., \$9; 8-in., \$12; 9-in., \$18; 10-in., \$24.
ASPARAGUS PLUMOSUS NANUS, 2-in., \$1 per 100; 3 in., \$8 per 100.
ASPARAGUS SPRENGERI, per 100—2-in., \$3; 3-in., \$8; 4-in., \$12; 5-in., \$15.
ARAUCARIA EXCELSA, 4-in., \$8 per doz.
FERNS FOR DISHES, Etc., \$3 per 100.
FERN BALLS, well furnished with leaves, \$3 to \$5 per doz.

The GEO. WITTBOLD CO.

1657 Buckingham Pl., Chicago.

B. & A. SPECIALTIES

ENGLISH MANETTI.....\$12.00 per 1000
FRENCH MANETTI.....\$10.00 per 1000

ASK FOR FALL CATALOGUE NOW READY.

BOBBINK & ATKINS, Rutherford, N. J.

Asparagus P. Nanus

2-inch pots, \$4.00 per 100. 25 at 100 rates.
C. rriage prepaid. Cash.

Pansy Seed

'902 GIANT OF CALIFORNIA.

\$4.00 per ounce, ¼ ounce at same rate.

Loomis Floral Co.
LOOMIS, CAL.

Clean, Strong Stock

READY NOW FOR SHIPMENT.

LATANIA BORBONICA, 4-inch, \$20.00 per 100.
" 5-inch, \$30.00 per 100.
KENTIA FORSTERIANA, 5-inch, \$75.00 per 100.
" 6-inch, \$100.00 per 100.
POINSETTIAS, 2½-inch, \$6.00 per 100.
BEGONIA REX, 12 varieties, \$2.50 per doz.; \$16 per 100.
" FLOWERING, 2½-inch, \$5.00 per 100.
SMILAX, 2-inch, \$2.00 per 100.
FUCHSIAS, no rust, 10 var., stock, 3-in., \$6 per 100.
Long stemmed For-Got-Me-Not, 3-inch, \$6 per 100.
BRIDES, MAIDS and PERLES fine stock, 2½-inch, \$3.00 per 100.
CYPERUS, 4-inch, \$10.00 per 100.

REMIT WITH ORDER

C. H. FREY, LINCOLN, NEB.

PAEONIAS FOR FALL..

10 distinct, best kinds, \$10.00 per 100.

Poels Narcissus, dbl. & sgl., home grown, \$5 a 1000.
Clematis, large flowering, \$2.50 per doz.; \$16 per 100.

SMILAX

A few hundred fine heavy plants, one year, \$3 per 100.

F. A. BALLER, Bloomington, Ill.

BEGONIA GLOIRE DE LORRAINE,

2¼-inch pots, \$15.00 per 100.

Write for prices on large lots. Stock guaranteed absolutely free from disease.

THOMAS ROLAND, Nahant, Mass.

If you write to any advertiser anywhere mention the paper in which you saw the ad. Both publisher and advertiser will like you better for it.

'Mums

We can still furnish the following varieties from 2½-inch pots. Thrifty young plants, well established, ready for immediate shipment. Our selection of standard varieties, early, midseason and late, \$20.01 per 1'0"; \$12.00 per 500. Reduction from list on large orders.

WHITE. Per 100	WHITE. Per 100
T. Eaton.....\$4.00	Geo. S. Kalb.....\$2.50
Ivory.....3.00	M. Mouch.....2.50
Willowbrook.....3.00	Mrs. J. Jones.....3.00
Nellie Pickett.....4.00	Queen.....3.00
Polly Rose.....3.00	Mrs. H. Weeks.....3.00
Niveus.....3.00	Mlle. Lucie Faure 3.00
Mayflower.....3.00	
YELLOW. Per 100	PINK. Per 100
Col. D. Appleton \$1.00	Orizaba.....\$5.00
Philadelphia.....5.00	Mary Hill.....4.00
Robt. Halliday.....3.00	Lady Playfair.....2.50
Golden Wedding . 4.00	Xeno.....3.00
R. H. Pearson. 6.00	Maud Dean.....4.00
Yellow Mayflower 3.00	Yansriva.....6.00
Mrs. E. D. Smith. 4.00	V.-Morel. ....4.00
October Sunshine. 3.00	Adele.....3.00
Mrs. J. Whildin. 2.50	Lady Harriett.....4.00
Liberty.....4.00	J. K. Shaw.....3.00
Eclipse.....4.00	Glory of Pacific. 3.00
Modesto.....3.00	Red and Bronze.
E. Daill-douze.....3.00	G. W. Childs.....4.00
H. A. Parr.....2.50	Intensity.....4.00
Majr Bonnaillon. 3.00	John Pickett.....6.00
Nagoya.....3.00	Lady Anglesly.....4.00

H. WEBER & SONS, Oakland, Md.

Primroses

CHINESE, single mixed, fine.....\$2.00 per 100
FORBESI, "Baby".....2.00
OBCONICA Grandiflora, ready Aug. 10 2.00
Asparagus PLUMOSUS, 2-in. pot. 3.50
Asparagus SPRENGERI, Aug. 20... 2.00
CARNATIONS, 500 each F. Hill, E. Crocker and 50 G. Angel, field-grown 4.00
PANSY SEED, ready in Aug., oz., \$4.00.
CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

ROBT. CRAIG & SON, Roses, Palms

and Novelties in Decorative Plants.
Market and 49th Sts., Philadelphia, Pa.
Please mention the American Florist when writing

Dreer's Offer of Cibotium Schiedei



ARAUCARIA EXCELSA GLAUCA.

5-inch pots, 8 to 10 inches high, 2 tiers.....\$.75 each
 6-inch pots, 12 inches high, 2 to 3 tiers..... 1.00 each
 6-inch pots, 15 inches high, 3 tiers..... 1.25 ea h
 7-inch pots, 18 inches high, 4 tiers..... 1.50 each

If you have never tried this beautiful Fern in fine decorations or as a house plant, you should become acquainted with it at once. Its points of merit are so many that you cannot afford to be without it. It possesses a graceful, delicate habit unlike any other plant and while its appearance is that of being very soft, it is really as hardy as any of the commercial Palms. We have a fine stock of it this season and offer heavy plants as follows:

5-inch pots, \$1.00 each; \$10.00 per dozen.
 7-inch pots, 1.50 each; 18.00 per dozen.
 9-inch pots, 3.00 each; 36.00 per dozen.

The 7 and 9-inch pots are beautifully finished plants, suitable for decorative work.

Special Offer of Araucarias.

We have in stock about twelve thousand Araucarias, on which we are in a position to offer special values. It will pay you to procure your next winter's supply now and not only gain the benefit of the summer's growth, but also cheap transportation rates, as these plants can be safely shipped by fast freight during the summer months.

ARAUCARIA EXCELSA.

5-inch pots, 8 to 10 inches high, 3 tiers.....\$.50 each
 6-inch pots, 10 to 15 inches high, 3 to 4 tiers..... .75 each
 6-inch pots, 16 inches high, 4 tiers..... 1.00 each
 6-inch pots, 20 inches high, 4 to 5 tiers..... 1.25 each
 7-inch pots, 24 inches high, 4 to 5 tiers..... 1.50 each

ARAUCARIA ROBUSTA COMPACTA.

6-inch pots, 10 inches high, 2 to 3 tiers..... \$1.25 each
 6-inch pots, 12 inches high, 3 tiers..... 1.50 each

HENRY A. DREER, 714 CHESTNUT STREET, PHILADELPHIA, PA.

CHRYSANTHEMUMS.

Nice young stock from 2 1/2-inch pots,
\$2.50 PER 100.

Mrs. J. Jones, Alice Byron,
 Glory of Pacific, Col. D. Appleton,
 Mrs. H. Robinson, Yel. Fitzwygram,
 Yellow Jones, Modesto,
 Pres. Smith, Lavender Queen,
 Vivand-Morel, Nagoya,
 Marion Henderson, Yanariva,
 Geo. S. Kalb, Mrs. E. D. Smith,
 Mrs. S. T. Murdock, Xeno,
 And many Other Standard Varieties.

NATHAN SMITH & SON, Adrian, Mich.

GERANIUMS

The following strictly high grade varieties, true to name all from 2 1/2-inch pots: **JEAN VIAUD**, (the pink novelty), \$3.00 per 100; **DUTCHESS OF ORLEANS**, (the variegated wonder), \$3.00 per 100. S. A. Nutt, Beate Poitevine, Francis Perkins, E. G. Hill, Mme. Bruant, Mme. Jaulio, Athlete, L. P. Morton, Thos. Meehan, Kelway and others, \$2.00 per 100; \$18.00 per 1000.

SMILAX.

We are headquarters for smilax and can supply any quantity. Fine plants from 2 1/2-inch pots, ready for planting \$1.35 per 100; \$10.00 per 1000.

The W. T. Buckley Plant Co., Springfield, Ill.

**Carnations, Geraniums
 Cannas, Etc.** Prices quoted upon application.

The Cottage Gardens, Queens, L. I.

HERRON....

Carnation Grower,

OLEAN, N. Y.

Please mention the American Florist when writing.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.

PALMS.

KENTIA BELMOREANA, 2 1/2-inch pots, \$8.00 per 100.
 " " 3-inch pots, \$15.00 per 100
 " " 24 to 28 in., fine bushy plants, \$1.25 each; \$15.00 per doz.
 " " 30 to 32 in., perfect condition, \$1.75 each; \$20.00 per doz.
ARECA LUTESCENS, 3-inch pots, (3 plants in pot), \$12.00 per 100.
 " " 6-inch pots, (3 plants in pot), 24 inches high, \$70.00 per 100.

FERNS from 2 1/2-inch pots.

PTERIS TREMULA, a large stock of this in excellent shape, short stocky plants ready for shipment. Always in good demand from any size pots, \$2.50 per 100.
PTERIS Adiantoides, Pteris Cretica Albo-Lineata, Pteris Alexandrae, Pteris Ouvrardi, Pteris Serrulata, each, \$2.50 per 100.
ONYCHIUM JAPONICUM, \$3.00 per 100.
ADIANTUM PUBESCENS, \$3.00 per 100.
 Good assortment of **FERNS**, our selection of varieties, \$20.00 per 1000.

ASPARAGUS.

PLUMOSUS, 2 1/2-inch pots, \$4.00 per 100; 3-inch pots, \$6.00 per 100.
SPRENGERI, 2-inch pots, \$2.50 per 100; 2 1/2-inch pots, \$3.00 per 100.
DRACÆNA GODSEFFIANA, 3-inch pots, \$1.50 per dozen.
MARANTA MASSANGIANA, 2 1/2-inch pots, \$3.00 per 100.

BARGAINS in Chrysanthemums and Fuchsias, named varieties, at \$2.50 per 100.

Ailamanda Williamsii.....\$4.00 per 100
 Acalypha Sanderli..... 3.00 per 100
 Russelia Elegantissima..... 3.00 per 100
 Vinca Variegata..... 4.00 per 100
 All good 2 1/2-inch plants.

The Conard & Jones Co, West Grove, Pa.

Please mention the American Florist when writing.

'Dryden'

Geranium, the finest of all bedders, 3 1/4-in. pots, \$6.00 per 100; 2 1/2-in., \$4.00 per 100. Cash please.

HENRY EICHHOLZ, Waynesboro, Pa.

Please mention the American Florist when writing.

Imperial Violet Plants

2 1/2-inch pots, grown for our own use.
 Good plants. \$2.50 per 100.

WISE BROS., East Aurora, Ill.

Please mention the American Florist when writing.

100,000 ASTER PLANTS

Simplex and Queen of the Market. New lot ready now, grown from the finest seed, at \$1.00 per 500; \$1.50 per 1000; 10,000 for \$12.50.

J. C. Schmidt, Bristol, Pa.

Please mention the American Florist when writing.

St. Paul.

OUTDOOR STOCK IN EXCELLENT SHAPE.—GOOD PRICES REALIZED.—FEW ROSES.—GOOD PROFIT IN SUMMER BLOOMS.—PERSONAL AND OTHER TRADE NOTES.

Along with the rest of the country we have had our deluge, but very little damage has been done. Outdoor flowers are abundant. N. C. Hansen is cutting millions of sweet peas of the finest quality imaginable, stems ten to twelve inches long and three to six blossoms on a stem. Haugen & Swanson are the aster kings this season and are bringing in thousands of fine blooms. R. C. Seeger is cutting some fine Beauties, which meet with ready sale. White stock is scarce, owing to the unusual demand for funeral flowers. All available stock is cleaned out each night and some orders are unfilled. This is an unusual condition for this season and may result in more stock being grown for summer cutting. With roses at \$4 to \$5 per hundred there is twice the profit in growing them for summer than there is in growing them in the winter for \$6 to \$8, with coal at \$4 to \$4.50 per ton. And carnations at \$1 per hundred in the summer are not grown at a loss either.

J. O. Zimmerman, of Pueblo, Colo., is sojourning in our midst. He notes a wonderful improvement in our city since his last visit nine or ten years ago.

Ludwig Anderson, formerly with Donaldson & Company, one of the best plantsmen in the state, has been engaged as foreman by Holm & Olson.

L. L. May & Company have received a carload of lumber from Chicago to be used in the erection of their new houses. FELIX.

CARLISLE, PA.—John P. Lindner, the shoe manufacturer, is building two carnation houses 30x300 feet and next spring will put up two houses of the same size for roses. Harvey E. Seitz, formerly with E. J. Bolanz, at Akron, O., will have charge. Mr. Lindner will also open a fine park near his greenhouses.

ASHEVILLE, NORTH CAROLINA.

'The Land of the Sky.'

The eighteenth annual meeting American Florists will be held at Asheville, August 19th to 22d, 1902.

A rate of **one fare for the round trip** has been made via Queen & Crescent Route and Southern Railway. Special train, composed of Pullman sleepers, will leave Cincinnati, Monday, August 18th, 2:00 p. m., via Queen & Crescent Route, and run through to Asheville via Southern Railway, arriving at Asheville next morning 7:00 o'clock.

Members will meet at Cincinnati and all go through together from there.

For sleeping car reservations and full particulars regarding rates, write

J. S. McCULLOUGH, W. A. BECKLER,
N. W. P. A., N. P. A., Queen & Southern Ry. Crescent Route.
225 DEARBORN ST. 113 ADAMS ST.
CHICAGO, ILL.

Carnations! Carnations!

The Best Field-Grown Stock. Every One a Choice Selected Plant.

	Per 100	1000		Per 100	1000
Mrs. Thos. W. Lawson.....	\$6.00	\$50.00	Bon Homme Richard.....	\$5.00	\$45.00
Flora Hill.....	5.00	45.00	America.....	4.00	35.00
White Cloud.....	5.00	45.00	Jubilee.....	4.00	35.00
Geo. H. Grene.....	5.00	45.00	Mrs. F. Joost.....	4.00	35.00
Glacier.....	5.00	45.00	Daybreak.....	4.00	35.00
Morning Glory.....	5.00	45.00	Gen. Gomez.....	4.00	35.00

Order Quickly. Plants reserved for later shipment if desired. Terms Cash.

H. W. BUCKBEE, ROCKFORD SEED FARMS, FOREST CITY GREENHOUSES, ROCKFORD, ILL.

Cut Gladiolus Spikes

of the **HIGHEST QUALITY**, in lots of from **100 to 100,000**. Pink, scarlet, crimson, white, light, yellow, blue, lavender and heliotrope; in fact, almost every shade imaginable.

Write for prices and particulars, stating your requirements.

ARTHUR COWEE, "Meadowvale Farm," Long Dist. 'Phone, BERLIN, N. Y.
U. S. Representative and Grower of **GROFF'S HYBRIDS**.

Watch this space for bulb advertisement later.

Society of American Florists

National Convention,

AUGUST 19th to 22nd, 1902,

ASHEVILLE, NORTH CAROLINA.

For this convention the "Big Four Route" (C. C. C. & St. L. Ry.) will sell tickets August 16, 17 and 18, good for return leaving Asheville not later than August 25, at **one fare for the round trip** from all "Big Four" stations. (\$20.00 round trip from Chicago.)

Florists' Special train will leave Chicago 8:30 p. m. Sunday, August 17th, running via "Big Four" to Cincinnati, thence via the Queen & Crescent and Southern Railways. Monday forenoon will be spent in Cincinnati, sight-seeing, etc., leaving there at 2 p. m. on the Florists' Special. Every florist should make a big effort to attend this convention, the first to be held in the beautiful Southland.

For berths in sleepers from Chicago or Cincinnati, and further information call on, or address E. F. WINTERSON, President Chicago Florists' Club, 45 Wabash Avenue, or J. C. TUCKER, Gen'l. Not. Agt. "Big Four", 234 S. Clark Street, Chicago.

ROSES to Plant

Well-grown stock, clean and vigorous.

AMERICAN BEAUTIES, 3-inch.	Per 100	Per 1000
Special reduced price to close out.....	\$6.00	\$55.00
PERLES, very nice, 3-inch.....	5.00	50.00
GOLDEN GATE, 3-inch.....	5.00	50.00
BRIDES, 3-inch.....	5.00	45.00
BRIDES, strong, 2½x3-inch.....	3.00	

Special on 3,000 fine 3-inch METEORS, \$30.00 per 1000; \$3.50 per 100. All choice strong plants. 1000 rate given on 250.

W. H. GULLETT & SONS, Lincoln, Ill.

- 5,000 SMILAX, extra to close.
- 500 HIBISCUS, in 2½ to 4-inch.
- 5,000 SPRENGERI, 2 to 6 inch.
- 5,000 PLUMOSUS, 2 to 5-inch.
- BOSTON FERNS, 4 to 10-inch.

Let us book your order.

GEO. A. KUHL, Pekin, Ill.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

FUMIGATION METHODS

By PROF. W. G. JOHNSON

Formerly State Entomologist of Maryland

A Practical Treatise and timely work on cheap and effective means of destroying insect pests and other vermin in various places. This work is the outcome of practical tests made by the author, together with the experiences of others, and is one of the most important books published this season and is much needed at this time. It will be of particular interest to

FRUIT GROWERS AND NURSERYMEN owing to the widespread prevalence of the notorious San Jose scale. Hydrocyanic acid gas is the only practical remedy for the destruction of this pest and is being used more extensively than ever before by nurserymen and fruit growers. The perfection of the apparatus for fumigating young orchard trees is outlined in this work. The methods can be easily applied in orchards and nurseries for many dangerous pests at very small cost. The writer is considered the best authority on this subject in this country and has left nothing undone to make this the most complete work of the kind ever published.

GARDENERS AND FLORISTS

have found that vegetables and flowers cannot be grown under glass without frequent fumigation for the destruction of insect pests. Hydrocyanic acid gas has solved this problem. The methods of procedure are fully described and every detail is given for generating and applying the gas.

MILLERS AND GRAIN DEALERS

have been looking forward to the publication of this work, as hydrocyanic acid gas has been found one of the most important materials for clearing mills and warehouses of insects. The subject of carbon bisulphide for fumigating mills and elevators containing grain in storage is also thoroughly considered. To this trade the work is indispensable and transportation companies have found it of great value for the fumigation of cars, ships and other inclosures infested with vermin.

FARMERS OF THE COUNTRY

have here fully described a simple, easy remedy for gophers, prairie dogs, squirrels and other animals in the ground, and rats and mice in any inclosure.

COLLEGE AND STATION WORKERS

will find it an up-to-date reference work on this subject. It is complete in every respect and is the only work of the kind ever published. It is written in a popular non-technical style, profusely illustrated, handsomely bound, covering 250 pages, price, post-paid, \$1.00.

AMERICAN FLORIST CO.

324 Dearborn St. CHICAGO, ILL.



RAFFIA NATURAL COLORED
VAUGHAN'S SEED STORE,
CHICAGO and NEW YORK.

Storekeepers

Extra fine blooming **CYCLAMEN PLANTS** for a change in your window at \$18.00 per 100; \$2.50 per doz. Cash or C. O. D.

Asparagus Plumosus, 3-inch pots, at \$7.00 per 100.
C. WINTERICH, DEFIANCE, OHIO.

IVORY, or White Golden Gate.

TRUE STOCK

Strong 4-inch pot plants, \$6.50 per 100; \$60.00 per 1000.

Strong 2 1-4-inch pot plants, \$3.00 per 100; \$25.00 per 1000.

W.A. Hammond

107 E. Broad St., Richmond, Va

REVISED LIST OF

ROSES ON HAND

July 22, 1902, at **GEO. A. KUHL'S,**
Pekin, Ill. Write him.

	2x2½	2½x3	3x3
METEORS.....	650	275	
BRIDES.....	2400	875	
MAIDS.....	850	150	475
KAISERINS.....		10.0	
PERLES.....		7.0	
BEAUTIES.....	850	1200	
LIBERTY.....	925		
GOLDEN GATE.....	6.0	425	75
LA FRANCE.....	150		
BELLE SIEBRECHT.....	180	300	
SOUPERT.....	50		

Miss Louise Faber

The Longest Stemmed
and Most Fragrant
Carnation in Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink, similar to a well colored Bridesmaid rose and average 2½ inches. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for Jan. delivery.

FICK & FABER, SAN MATEO, CAL.

CARNATION Plants.

If you want some first-class field-grown plants, send for quotations to

Michael Winandy, Corner Devon Ave. and N. Robay St., CHICAGO.

VIOLETS

Dorsett's Single from 4 in. pots, \$15.00 per 100. Imperial, Marie Louise and Swanley White, from 3-in. pots, first-class stock, at \$4 per 100.

ROSES from 4-inch pots, \$8.00 per 100. BRIDES, MAIDS and METEORS.

Crabb & Hunter, Grand Rapids, Mich.

SPECIALTIES

ROSES, from 3-inch pots. **CARNATIONS,** for all delivery, **CHRYSANTHEMUMS,** **SMILAX, VIOLETS.**

In Best Varieties

Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.

Please mention the American Florist when writing.

FIELD-GROWN CARNATION Plants.

	Per 100	Per 1000		Per 100	Per 1000
4,000 DAYBREAK.....	\$4.00	\$35.00	4,000 G. H. Crane	\$5.00	\$45.00
4,000 CHAPMAN.....	4.00	35.00	1,000 MACEO.....	5.00	45.00
1,000 McGOWAN.....	4.00	35.00	1,000 ELDORADO.....	5.00	45.00
4,000 WHITE CLOUD.....	5.00	45.00	2,000 IRENE.....	6.00	50.00
4,000 FLORA HILL.....	5.00	45.00	5,000 Guard'n Angel	6.00	50.00

Plants in good health. Order now and have them reserved for you in the field.

KENNICOTT BROS. CO.

WHOLESALE COMMISSION FLORISTS, 42-44 Randolph St., CHICAGO.

FLORISTS' ROSES

FOR WINTER FORCING.

All nur 2½-inch stock has been shifted from 2-inch pots. Our rose plants are all grown for the trade (we do not grow cut flowers), and such plants we claim are well worth more money than ordinary surplus stock:

	2½-in.	3½-in.
	Per 100	Per 1000
AMERICAN BEAUTY, 3-in., \$8.	\$8.00	\$12.00
BRIDESMAID.....	3.50	8.00
GOLDEN GATE.....	3.50	8.00
KAISERIN.....	5.00	12.00
METEOR.....	3.50	8.00
PERLE.....	4.00	10.00
BRIDE.....	3.50	8.00
IVORY, White Golden Gate.....	12.50	20.00
MRS. OLIVER AMES, 4-inch, per doz., \$10.00.		
BEDDING ROSES in large assortment, strong 2½-inch, per 100, \$3.00.		

Boston Ferns

BEST STOCK.

2½-in., per 100, \$5.00; 5-in., each 50c; 7-in., \$1.00.

Asparagus Plumosus, 2-inch pots, per 100, \$4.00.

Asparagus Sprengeri, 2-inch pots, per 100, \$3.00.

Smilax, per 100, \$2.50.

Chrysanthemums, large assortment, \$3 per 100.

Fern Balls in leaf, 7 to 9 inches, per doz., \$8.00.

Ferns for Fern dishes, best kinds, per 100, \$1.00.

Hibiscus Peachblow, 2½-inch pots, per 100, \$3.00.

Lemon American Wonder, 2½-inch pots, per 100, \$5.

Vaughan's Seed Store,

GREENHOUSES:
WESTERN SPRINGS, ILL.

84 & 86 Randolph Street, CHICAGO.
14 Barclay Street, NEW YORK.

WE HAVE ABOUT

2000 NICE BEAUTY PLANTS, 2 1-2 and 3-inch
.....pots...

Also about 1000 METEORS, 3-inch pots, cheap.

JOHN BURTON, Chestnut Hill, Phila.

Surplus Stock CHEAP.

Per 100
500 Golden Gate Roses, 3-in., strong.....\$5.00
600 Bride Roses, 3-inch, strong, 5.00
700 Bridesmaid Roses, 3-inch, strong..... 5.00
700 Baby Primroses, 2¼-inch, strong.... 2.50
400 Latania Borbonica, 3-inch pots, good
for growing on, will clean them out at 4.00
2,000 Kentias ¼ Belmoreana, 3-in. pots 10.00
Will make a very low price on the entire lot.
Walker & McLean, Youngstown, O.

Rose Plants.

BRIDE, 3 inch, \$4.00 per 100; \$35.00 per 1000.
BRIDESMAIDS, 3-in., \$4 per 100; \$35.00 per 1000.
Re-potted three times. Elegant stock. 250 at 1000 rate. Unknown parties cash with order.
BRANT & NOE, FOREST GLEN, CHICAGO.
Please mention the American Florist when writing.

Roses.

3,000 Maids in 3-in. pots at \$3.50 per 100; \$30.00 per 1000. **Good Strong, Healthy Plants.**

500 Adiantum Cuneatum

in 6-in. pots at \$25.00 per 100.

The F. R. Williams Co.
CLEVELAND, OHIO.

FIELD-GROWN Carnation Plants

at the following varieties:

ETHEL CROCKER, G. H. CRANE.

FLORA HILL, FRANCES JOOST.

Send for samples and prices; ready for planting.

JOHN WOLF, Savannah, Ga.

Please mention the American Florist when writing

Kalamazoo, Mich.

GROWERS BUSY GETTING IN SHAPE FOR FALL.—GOOD SEASON FOR OUTDOOR STOCK.—HOUSES REPLANTED.—A WEDDING.—NOTES.

G. Van Bochove & Brother are again at it, two additional houses 18x80, one for forcing and the other for cold storage purposes, being now in course of construction. As usual, these will be equipped with all the modern appliances and, from all appearances, will fill a long-felt want. Roses have not only been planted, but they have already made considerable growth, the young plants looking remarkably fine and vigorous. American Beauties will be grown in larger quantities than heretofore, the increased demand, both wholesale and retail, during the past season having been such that an additional house was a matter of necessity. Carnations in the field have never looked finer. Having been planted on high ground, the continuous rain did not seem to affect them. If anything, it seems to have quickened their growth, so that some varieties are already being lifted and housed.

At the Dunkley Floral Company's establishment things are in the pink of condition. Young roses are doing splendidly and carnations, both in the field, and the old plants in the houses, are all that a grower could possibly desire. I saw some Joost, Crocker and Flora Hill that would compare most favorably with stock grown in February. Mr. Kyle, the superintendent, will have considerable work during the next few weeks in making various repairs and improvements about the establishment.

John R. Van Bochove and Miss Wilhelmina Haugst were the central figures at a June wedding and have since received no end of congratulations.

Mrs. Dunkley, accompanied by her sons, is recuperating at a summer resort up the state, by the lake. NOMIS.

ROCHESTER, N. Y.—J. B. Keller Sons are busy rebuilding four old palm houses, the same buildings with which J. B. Keller started the business in 1875. The roofs are still sound, only the plates, gutters and posts needing renewal. None of the bars show signs of decay, though made of ordinary clean pine, but they were painted every second or third year. The ridge poles are very straight yet; 1 1/2-inch iron pipe was used to support them.

VEGETABLE Plants.

CELERY, White Plume and Giant Pascal, transplanted, \$1.20 per 1000. White Plume, not transplanted, \$1.20. Sample mailed for 5c stamp.

LUDWIG MOSBAEK, 85th St. near So. Chicago Ave., Chicago, Ill.

BAMBOO PLANT STAKES

For **Chrysanthemums**, etc., strong, 3/4 to 1/2-inch, 4 to 6 feet, per 400, \$2 50; per 1200, \$6.00. Cash with order.

C. H. JOOSTEN, Importer, 178 Chambers St., NEW YORK.

Watch This Space FOR FUTURE BARGAINS.

JOHN BROD, 349 West North Avenue, CHICAGO, ILL. Greenhouses, Niles Center, Ill.

Please mention the American Florist when writing.

AWARDED THE ONLY FIRST CLASS CERTIFICATE OF MERIT BY THE SOCIETY OF AMERICAN FLORISTS AT BOSTON MASS. AUG. 21ST 1890 FOR STANDARD FLOWER POTS.



WHILLDIN POTTERY CO.

JERSEY CITY LONG ISLAND CITY

PHILADELPHIA

Traveling Representative, U. CUTLER RYERSON, 108 Third Ave., NEWARK, N. J.

ESTABLISHED 1866 EMIL STEFFENS SUCC. TO N. STEFFENS AND STEFFENS BROS.



"BLACK DEATH" (POWDER) TO EAT THEREOF IS TO DIE.
BUG KILLER and FERTILIZER. Three years of unprecedented success wherever introduced all over the United States has proved "BLACK DEATH" to be a cheap and absolute annihilator of all insects, bugs or beetles that prey on vegetation, foliage and flowers. See what Peter Reinberg said in this paper, Feb. 8. Other strong endorsements sent on receipt of postal card.
 Western Sales Agency, 235 Franklin St., Chicago.
HANDLED BY SEEDSMEN. S. D. STRYKER, Agent.

WITTBOLDII FERNS

2 1/2-in., \$5.00; 3-in., \$8 00; 5-in., \$15.00.
 Bench plants all sold.

25 FINE RUBBERS

3 feet to 4 feet, \$1.00 each or the lot for \$70.

CASH PLEASE.

A. J. BALDWIN, NEWARK, O.

Orchids!

Arrived in fine condition: Cattleya labiata, C. Skinneri, C. Downiana, Oncidium varicosum Rogersii and Peristeria elata; also a fine lot of Anthurium Scherzerianum. Write for our illustrated, descriptive catalogue of orchids. Special list of freshly imported unestablished Orchids, just ready. Write for a copy.

LAGER & HURRELL, SUMMIT, N. J.
 Orchid Growers and Importers.

'MUMS! ROSES! SPECIAL!
 Col. Appleton, 2 1/4-inch, \$20.00 per 1000; rooted cutting, \$15.00 per 1000. Maj. Bonnaffon, 2 1/4-inch, \$18.00 per 1000; rooted cuttings, \$11.00 per 1000. Our selection in proper proportion of color, 2 1/4-inch, \$20 per 1000; rooted cuttings, \$12.00 per 1000. 100,000 2 1/4 and 3-inch Maids, Brides, Gates and Meteors. 25,000 2 1/4-inch Stevia and rooted cuttings, \$20 and \$12 per 1000.
 Printed price list furnished on application.
 Poeschlmann Bros. Co., Morton Grove and Chicago, Ill.

BEGONIA GLOIRE DE LORRAINE, Begonia Light Pink Lorraine,
 For July and Later Delivery, \$15.00 per 100; \$140.00 per 1000.
Edwin Lonsdale, Wyndmoor, near Chestnut Hill, Pa.

Please mention the American Florist when writing.

Araucaria Excelsa.

We control the American market of this splendid pot plant. Our houses are now full of them. May importation per steamers Nederland, Penland and Kensington. We sell plants raised from top cuttings only (no seedlings), at the lowest cash prices, as follows: Each
 5 to 5 1/2 inch pots, 3 tiers, 10 in. and above, 50c
 5 1/2-inch pots, 3 tiers, 12 in. and above, 60c to 75c
 6-inch pots, 4 tiers, 15 to 18 inches and above, 75c to \$1.00
KENTIA FORSTERIANA, 25 to 28 inches high, 5 leaves, 5 1/2-inch pots, 75c
KENTIA BELMOREANA, 20 inches and over, 5 leaves, 5 1/2-inch pots, 75c
FIGUS ELASTICA, 4 inches, 20c to 25c
BEGONIA, tuberous rooted 5-in. pots, \$1.80 per doz.
ASPARAGUS PLUMOSUS (only 300 plants in all), fine, large bushes, just beautiful, 2 years old, from 20 to 25 sprays, out of 5 1/2 to 6-inch pots, 20 cents.
 Cash with order, please. Mention if pots are wanted.

GODFREY ASCHMANN,
 WHOLESALE GROWER AND IMPORTER OF POT PLANTS.
 1012 Ontario Street. PHILADELPHIA, PA.

CYCLAMEN

Persicum Splendens Giganteum.

Finest strain in the world, in four true colors, well-grown plants, from 2 1/4-in. pots, \$1.00 per 100; \$35.00 per 1000. Extra selected, \$5.00 per 100; \$40.00 per 1000. From 3-inch pots, \$7.00 per 100; \$65.00 per 1000.

PAUL MADER, East Stroudsburg, Pa.
 Please mention the American Florist when writing.

Sigmund Geller
 Importer and Manufacturer of
FLORISTS' SUPPLIES

Complete Stock—New Goods—New Illustrated Catalogue Now Ready. Send for it.
 103 W. 28th St., near 6th Ave., NEW YORK.
 Please mention the American Florist when writing.

“Dunnite” for Roses

This is a formula for PREVENTING and REMEDYING BLACK SPOT ON ROSE PLANTS. Especially adapted to AMERICAN BEAUTY. If used as directed you will never suffer from BLACK SPOT or INSECTS on any of your ROSE PLANTS. ✿ This formula is the result of practical experience and careful study of many years. ✿ Write for prices and descriptive circular. ✿ ✿ ✿ ✿ ✿

Manufactured Only by

DUNNE & CO., Horticultural Supplies

Office and Salesroom, 54 West 30th St., NEW YORK.

WE DO NOT HESITATE TO ADVERTISE

TRADE MARK

“DUNNITE”

REGISTERED

It is a Grand Formula, Genuine and Pure, and will earn its own reward from every grower who uses it. DUNNE & CO.

WE NOW OFFER

“Chemicals”

for making LIQUID COMPOST. Dry powders all soluble in water. Composts cost less than 1/2c per gal. Correspondence invited.

EASTERN CHEMICAL COMPANY,
620 Atlantic Ave., Boston.



Invalid Appliance Co.,

MANUFACTURERS OF

COLUMBIA PLANT TUBS

(PATENTED)

“The kind that never fall apart.”

If your seedman doesn't handle them, order of us direct.

FACTORY AND OFFICE:
150-100 VEDDER ST., CHICAGO.
TELEPHONE NORTH 953.

THOSE RED POTS

“STANDARDS”

FULL SIZE AND WIDE BOTTOMS.

BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'FY,

HARRY BALSLEY, DETROIT, MICH.,

Rep. 490 Howard St.

WRITE

A. F. KOHR, 1521-23 N. LEAVITT ST.,

CHICAGO, ILL.,

FOR PRICES OF

Standard Pots

which for strength and porosity combined are the best on the market.

American Florists

♣️ ♣️ **Ads**

Always do business,
Week days and every day
Sundays and holidays,
All over the country,
At home and abroad.

STANDARD FLOWER POTS!

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in., in crate,	\$4.88	120 7-in., in crate,	\$4.20
1500 2 1/2 " "	5.25	60 8 " "	3.00
1500 3 " "	6.00	HAND MADE.	
1000 3 1/2 " "	5.00	48 9-in., in crate,	\$3.60
800 3 1/2 " "	5.80	48 10 " "	4.80
500 4 " "	4.50	24 11 " "	3.60
320 5 " "	4.51	24 12 " "	4.80
144 6 " "	3.16	6 16 " "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward N. Y.
OR AUGUST ROLKER & SONS, New York Agents,
31 Barclay Street, New York City.

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.



GEO. KELLER & SON,

MANUFACTURERS OF

FLOWER POTS.

Before buying write for prices.

351-363 Herndon Street,

near Wrightwood Ave., CHICAGO, ILL.

FLOWER POTS

ALL KINDS.

STANDARD POTS SPECIALTY

List and SAMPLES FREE.

SWANN'S POTTERY MFG CO.,

P. O. Box 78.

MINNEAPOLIS, MINN.



KELLER BROS.

213-15-17-19-21-23 Pearl St., NORRISTOWN, PA.

Manufacturers of Standard Flower Pots, red in color, equal to the best on the market; are 16 miles from Philadelphia, best of railroad connections. We give special attention to mail orders and make special sizes to order in quantities. A postal will bring prices and discounts.

RED POTS

SAMPLE POT AND PRICE LIST ON APPLICATION.

C. C. POLLWORTH CO., MILWAUKEE, WIS.

American Florist Ads

Always do business, week days and every day, Sundays and holidays, all over the country, at home and abroad.

Minneapolis.

ANNUAL PICNIC PROVES VERY SUCCESSFUL.—TRADE MOVING SLOWLY.—FUNERAL WORK.—GLUT OF SWEET PEAS.—VARIOUS NOTES.

The tenth annual picnic of the Twin City florists, held at Spring Park, Lake Minnetonka, was a decided success. There were about 250 in attendance and, with a well arranged programme and fine weather, the day was enjoyed by all. The bowling contest and ball game were the main features. The former was won by H. Berg, first; A. H. Swabns, second; Osear Carlson, third; Gns. Will, fourth. The ball game resulted in favor of St. Paul. All other events were well contested and hard earned by the winners.

Trade continues in the same path, although considerable funeral work is called for. Stock in general is very scarce but there is a surplus of sweet peas. They can be bought for one's own price. Tea roses are simply off the market.

There will be a few of the trade who will take in the Asheville convention. Otto Will is one who has decided to go and will also take in New York and other eastern cities.

The Campbell Greenhouses, at St. Cloud, have been sold to P. H. Anderson who will continue the business for the present under the same name.

H. Sauer & Son are having a very heavy run of funeral trade and H. Barsch has had one of the busiest seasons in this line for a long time. C. F. R.

Newport, R. I.

The prizes offered by Com. E. T. Gerry for the best table decoration on the second day of the horticultural exhibition were awarded respectively to Bruce Buterton, C. D. Stark and W. H. Maher. The winners in the class for fancy basket of flowers were James Kyle, Andrew Ramsay and W. Barth. In the classes for gardeners' assistants Sam. Williams was first on basket and bouquet and A. Jenkins second on basket. The sweet peas from W. Barth, Jas. Kyle and James Robertson were very beautiful. The grapes from A. Frazer and D. McIntosh, the nectarines from A. Ramsay and W. Barth and melons from A. Griffin were luscious.

FRAMINGHAM, MASS.—S. J. Goddard has purchased a tract of land on Main street and will remove his greenhouses and business to the new location.

TIN FOIL

Plain, Fancy, Printed & Mounted.

Manufactured by

The Conley Foil Co.

521 to 541 West 25th St.,
NEW YORK.

LEADING Florists' Supply House M. RICE & CO.

Importers and Manufacturers,
918 Filbert Street, PHILADELPHIA, PA.
Catalogue for the asking.



MODEL EXTENSION CARNATION SUPPORT

Made with two or three circles. Endorsed by all the Leading Carnation growers as the best support on the market.

Pat. July 27, '97, May 17, '98

Prompt Shipment Guaranteed.

IGOE BROS.

226 North 9th St.,
BROOKLYN, N. Y.

Please mention the American Florist when writing.

TO KILL ALL Greenhouse Bugs

USE

"NICOTICIDE"

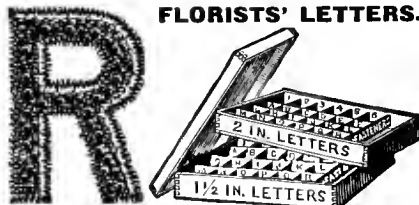
Clean and harmless as Fumigant or Spra. Ask your seedsman for it or write to

The Tobacco Warehousing and Trading Co.,

1000 Magnolia Ave., - Louisville, Ky

Boston Florist Letter Co.

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00. Script Letters, \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hawley St., BOSTON, MASS.

Please mention the American Florist when writing.

A. HERRMANN,

- ☛ Cape Flowers, all colors,
- ☛ Cycas Leaves, Metal Designs,
- ☛ and All Florists' Supplies.

Send for Prices.

404-412 East 34th St. **NEW YORK.**

Blight

Of Melons;
Of Asparagus;
Of Hollyhocks, etc.

Now is the time to check these diseases by spraying with Bowker's

"Blumeal" For blight;

a dry Bordeaux, scientifically prepared. Add water and it is ready to use. 5 pounds for \$1. Handbook of injurious insects and fungous diseases mailed free.

Bowker INSECTICIDE CO.
BOSTON, MASS.

There's Business All Summer

If you will only work it up. Don't let your stock run down. Be sure to have everything on hand that a customer may call for. You will find every requisite listed and priced within the covers of our new Illustrated Catalogue. Free to Applicants in the trade only.

H. BAYERSDORFER & CO.,

Manufacturers and Importers,
50-56 N. Fourth St., Phila.. Pa.

FOR KILLING Bugs and Insects SULPHO-TOBACCO SOAP

(PATENTED.)

Gives Best Results.

Cheap and Effective.

Sold by Seedsman. A 3-oz. trial cake, making 1 1/2 gallons prepared solution, mailed for 10 cents.

Larkin Soap Co. BUFFALO, N. Y.

Adjustable Plant Stands

THE BEST ON THE MARKET.

1 Stand \$1.50; 3 Stands \$4.00; 6 Stands \$7.50; 12 Stands \$14.00.
YOU NEED THEM IN YOUR BUSINESS.

C. B. WHITNALL, MILWAUKEE, WIS.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

The Model Extension Carnation Support.



Flushing, Long Island, Dec. 10th, 1901.
 Mr. THERON N. PARKER, Brooklyn, N. Y.
 Dear Sir—I have used your Wire Carnation Support the last two years in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.
 Very truly,
 A. L. THORNE, La Fayette, Ind., July 8th, 1902.

Mr. THERON N. PARKER, Harrison N. J.
 Dear Sir—After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season. We were much pleased with the simplicity, strength and neat appearance of the support.
 Yours truly,
 F. DORNER & SONS CO.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.

The Parker-Bruen Mfg. Co.
 208 Jersey St., Harrison, N. J.

CUT FLOWER BOXES

WATERPROOF Corner Lock Style.
 The best, strongest and neatest folding cut flower box ever made. Cheap, durable, handy. To try them once is to use them always.

DON'T USE OLD STORE BOXES.

If you have any doubt, send for samples, which speak for themselves.
 Size No. 1. 3x4 1/2 x 16. \$1.75 per 100; \$15.00 per 1000
 " No. 2. 3x6x18. " 2.00 " 18.00 "
 " No. 3. 4x8x18. " 2.40 " 22.00 "
 " No. 4. 3x6x20. " 2.75 " 25.00 "
 " No. 5. 4x8x22. " 3.00 " 28.00 "
 " No. 6. 4x8x28. " 3.75 " 35.00 "

THE LIVINGSTON SEED CO.

Box 103, COLUMBUS, O.

Horticultural Builders & Heating Engineers
PHILLIPS MFG. CO.,

Tel. 1851 Bergen. Jersey City, N. J.
 In 1900 we built 5,726 square feet.
 In 1901 " 21,276 square feet.
 In 1902 " to date 14,962 square feet.

Have orders for 19,600. This should convince you we are progressive and up-to-date. See the range we are building for S. Untermyer, Esq., Greystone, Yonkers, N. Y.; conceded by practical authority to be a perfect type of greenhouse. Call us up.

KIFT'S Patent ADJUSTABLE VASE HOLDER

No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$2.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nickel, with three clasps for 5 to 6-inch pots, each \$1.75.

KIFT'S PATENT Rubber Capped FLOWER TUBES, 1 1/2-inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.

FOR SOMETHING NEW AND NICE

"Cluster of Roses Stationery"

for Florists, is the latest. Both plain and in colors. Samples free by **DAN'L B. LONG, Publisher, BUFFALO, N. Y.**
 Please mention the American Florist when writing.

RED CYPRESS

Greenhouse Material and Hot Bed Sash.

REMEMBER it costs you nothing to get our Sketches, Estimates and Catalogue.

We use only the very best material air dried and free of sap.

FOLEY MFG. CO.

Office, 471 W. 22d St., Chicago.

Nikoteen

Aphis Punk

It Burns

The most convenient way of applying an insecticide ever yet devised. No pans required—No heating of irons—No trouble—Cannot injure the most sensitive blooms—Very effective. Price 60¢ per box of 12 oils. All dealers sell it!

Skabcura Dip Co.
 St. Louis — Chicago.

D. O. Cunningham

Glass Co.,

PITTSBURG, PA.

Tank Window Glass.
 Hot-House Glass A Specialty.

HEADQUARTERS FOR HORTICULTURAL SUPPLIES
 Of Every Description.

When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

DUNNE & CO., 54 W. 30th St., New York.
 Telephone Call, 1700 Madison Square.

THE Regan Printing House
NURSERY SEED FLORISTS' CATALOGUES

87-91 Plymouth Place,
 CHICAGO

Bargains

FOR Florists.

We are headquarters for a general assortment of the necessary material and supplies that you are looking for. If you are about to improve or construct, consult us.

In connection with the dismantling of the Pan-American Exposition, we have for sale:

20,000,000 FEET of fine seasoned lumber, practically new, consisting of all sizes of joists, timbers, dressed and matched boards and flooring; also sash and doors.
50,000 FEET of roofing glass.

PIPE.

We are headquarters for pipe. We offer you:
100,000 FEET of 2 to 4-inch wrought iron, lap welded casing. We can furnish this material in three ways: Either with sleeve or jacket couplings, screwed ends and threaded couplings or with expanded cast iron flanges with bolts and nuts.

1,000,000 FEET of standard black wrought iron pipe, size 3/8 to 12-inch. It is second-hand but has new threads and couplings and is in first-class condition.

1,000 TONS of galvanized wire 9, 10, 11, 12, 13, 14 and 15 gauge.

50,000 FEET of 2, 3 and 4-inch cast-iron soiled pipe and fittings.

100,000 FEET of garden hose, 3/4 and 1-in.

75,000 FEET of cotton rubber-lined fire-hose, (rubber-lined in and outside), ranging in sizes 1 to 2 1/2-inch.

VALVES and fittings of every kind.

BOX COILS for heating purposes.

RADIATORS, new and second-hand.

We also offer the following bargains in

Heating Boilers

50 CAST-IRON sectional heaters, capacity from 450 to 5,000 feet.

1 NO. 2 Standard Kroeschell hot water heating boiler.

FOUR 36x10 Horizontal Tubular.

FOUR 36x12 Horizontal Tubular.

FIVE 42x10 Horizontal Tubular.

FIVE 42x12 Horizontal Tubular.

SIX 48x4 Horizontal Tubular.

TWO 54x16 Horizontal Tubular.

FOUR 60x16 Horizontal Tubular complete with all fittings.

PUMPS of all Descriptions.

A carload of shovels and spades that we are selling at \$5.00 per dozen.

We carry a complete stock of hardware and farm implements, besides plumbing material of every kind.

Write for Catalogue No. 47.

Chicago House Wrecking Co.,
 W. 35th and IRON STS., CHICAGO, ILL.

Washington.

VARIOUS DOINGS OF PERSONAL AND TRADE INTEREST.—A GROWER INJURED.—LITTLE DOING IN A TRADE WAY.

George A. Leissler is making a very good showing at his farm in Virginia. He has fine large patches of dahlias, cannas and asters and his earnings are looking promising. July 9 he met with a painful accident. While burning some brush there was an explosion and his left arm, side and leg were filled with large grains of powder. He has no idea what caused the explosion.

There is not much doing among the retailers. Dahlias and asters are coming in fine and are useful for funeral work, which is about all there is to do. The growers are still busy getting things in shape for their fall and winter crops.

O. A. C. Ochmuler, formerly in business here, but who has been residing in Butte, Mont., for some time, has been visiting here, and on July 15 married Mrs. Waters, of Washington.

Ingram Nimmo, with A. Gude & Brother, was married July 14 to Miss Etta Leona Vanderveer, of Norfolk, Va.

Clark Brothers are making preparations for building a greenhouse 33x112 in place of two smaller ones P. G.

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Business is very quiet and what funeral work comes along is easily taken care of. Cut flowers are plentiful and fair in quality. Queen of the Market asters are coming in and are good. We still have the disease among the plants, but not so badly as former years. Carnations, cannas, dahlias and so forth, are looking good, excepting geraniums, which, on account of so much rain and continued dark weather, do not show up so well as usual.

Most of the boys are taking their vacations. Mark Aitken and Mr. Morgan, of Longmeadow, spent a few days fishing at Goshen, a good catch being the result.

H. Barton, of Westfield, was in town the other day looking up building material. A. B.

FISHKILL, N. Y.—The greenhouses of Wood Brothers were struck by lightning during the storm July 28 but only trifling damage was done.

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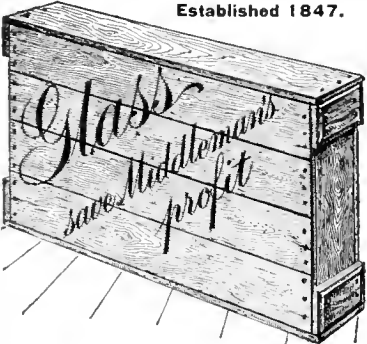
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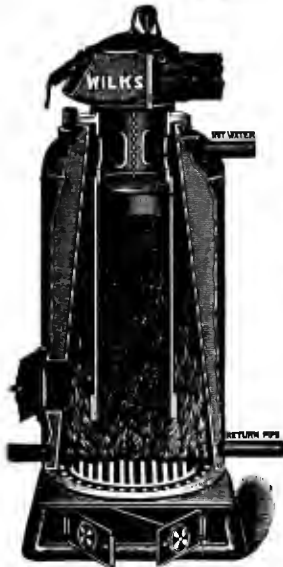
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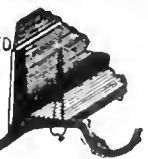
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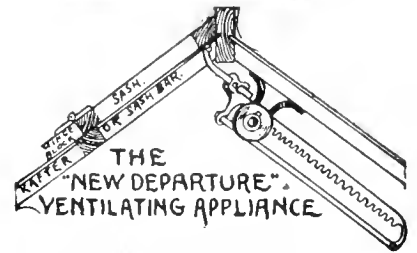
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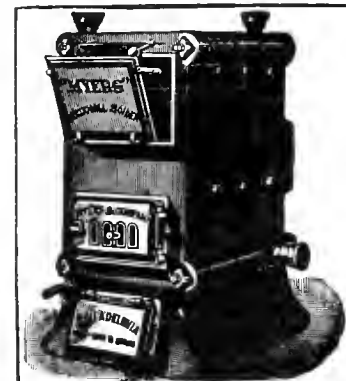
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Vol. XIX.

CHICAGO AND NEW YORK, AUGUST 9, 1902.

No. 740.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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THE AMERICAN CARNATION SOCIETY.

Annual convention at Brooklyn, N. Y., February, 1903. ALBERT M. HERR, Lancaster, Pa., secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Asheville, N. C., August 20, 1902. EDWIN LONSDALE, Chestnut Hill, Pa., Sec'y.

AMERICAN ROSE SOCIETY.

Annual meeting at call of executive committee, LEONARD BARRON, 136 Liberty St., New York, secretary.

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Stock for Table Ferneries.

"In time of peace prepare for war" is a hard worked maxim, but it may be applied to our business as a reminder of the necessity of preparing for the busy days of autumn and winter during these quiet months of summer.

Among the needs of the busy season that will come along toward winter and for which provision must be made soon, if not already done, is that of having a sufficient variety of small plants that may be used in table ferneries and as a groundwork for floral decorations.

Center plants for ferneries are frequently in demand and for this purpose it is hard to find any more satisfactory than *Cocos Weddelliana* or small, well furnished and dwarf-habited plants of *Kentia Belmoreana*. These two palms endure the atmosphere of the dwelling about as well as any of their family and, in addition to this, may usually be had when wanted.

Small plants of *Pandanus Veitchii* and *P. utilis* are also very effective among ferns and also in combination with certain flowers, but it must be remembered that the pandanus are not as hardy as the palms mentioned above, and especially if they have been grown in a rather close and moist house. Pandanus require more light than palms in general, and also plenty of ventilation during the summer season of rapid growth, in order to produce strong, short-jointed plants that will be of use for the work in question.

Dracaena Sanderiana in 2½-inch or 3-inch pots is also useful stock for the clear and well marked variegation, it being a good plan to have some single-stemmed plants and some compound or made up plants. There is no difficulty whatever in rooting cuttings of this dracaena, at any season of the year, in a moderately close and shaded house, provided the cuttings are kept moist, though there sometimes is some difficulty in getting cuttings enough, unless one has a considerable number of plants from which to propagate. Small plants of *Dracaena gracilis*, that old species with narrow, dark green leaves that are edged with brownish red, form useful center plants and may be had from cuttings in just the same manner as the former species.

A few small-leaved crotons are also useful to have about, *C. Katoni* or *C. Aureo-maculatum* being good ones for the work in view, and the old *C. Interruptum* being also adapted to such use.

The varieties named are possibly a little more hardy than some of the more showy, broad-leaved kinds, though even these should never be kept in a greenhouse that drops in temperature below 60° during the winter.

In preparing these small crotons for table use much the same rule applies as that advised for the pandanus, namely, to give them plenty of light and air during the summer and to syringe them forcibly and freely. The crotons will also need pinching back from time to time, so that they may form stout and bushy little plants that will make a good showing for the size of pot in which they are grown, for there need be no hesitation about pinching back these plants during the growing season, as they break away quite readily.

Another very pretty little plant is the dwarf sweet flag, *Acorus gramineus variegatus*, also known as *A. Japonicus variegatus*, the leaves of which are usually from three to six inches long and striped with ivory white variegation. This acorus does not need much heat to keep it in good condition during the winter, a night temperature of 50° being sufficient. Propagation is effected by means of division of the crowns or roots, an operation that is best performed in the spring or early summer, that the plants may become a useful size before winter. Good loam is the only soil required, and from the fact that the members of the acorus family are swamp-lovers it will be readily understood that an abundance of water should be given at all times.

Still looking among the variegated-leaved stock we find one of the dwarf bamboos, *Bambusa Fortunei*, a species that makes a quantity of short growths that are well covered with small green and white striped leaves. The shoots on young plants average four to six inches in length, but sometimes reach a greater size in old and well-established plants. This, also, is quite a cool house species, and in fact is nearly hardy, and is thus by no means difficult to keep in condition during the winter.

A few peperomias should also be remembered, *P. maculosa* being one of the best, but the season is passing rapidly and it now leaves but a short period in which to grow these plants from cuttings, but even were they propagated from leaf cuttings now, the resulting plants would probably become of a useful size before spring. The peperomias need a moderately shaded house during

the summer and at that season require plenty of moisture, but during the winter, when their growth is not so rapid, less water is needed, an over-supply sometimes resulting in rotting off the plants at the surface of the soil, this trouble being much more likely to appear if the peperomias are kept in too low a temperature, for example, below 60°.

Small plants of *Farfugium grande* may also be put among the available stock for table use, their leathery and yellow spotted leaves enduring much exposure without injury. In growing *farfugium* one should not make the mistake of placing it in a warm greenhouse, this plant enduring quite sharp frosts without serious injury when planted outdoors, and in some parts of great Britain being considered quite hardy.

The ferns are naturally an important item in the special branch to which these notes refer and, speaking in a general way, one may say that it is wisest to choose such species and varieties as are of distinct character, having firm foliage, and of reasonably rapid growth. Among these the pteris family probably stands first, such ferns as *P. serrulata*, *P. serrulata cristata*, *P. cretica albo-lineata* and *P. cretica magnifica* being among the standard sorts in most markets.

Davallia tenuifolia stricta and *Oncidium Japonicum* have more finely divided leaves and both are useful, while several of the lastreas or aspidiums make very shapely little plants and have foliage of particularly good substance. Some maidenhair ferns in small pots will be needed, but as a rule this does not last long in a fernery, and in consequence is less in favor for this particular purpose than are some of the stronger growing species already referred to.

W. H. TAPLIN.

Park and Outdoor Art Association.

The sixth annual meeting of this association opened at Horticultural Hall, Boston, on Tuesday, August 5, with a gratifying attendance of park commissioners, landscape gardeners and others interested in the development of outdoor art. President E. J. Parker, of Quincy, Ill., in his opening address spoke of the great destruction of forests in the past and the disastrous results therefrom upon climate and productiveness. He referred with approbation to the public awakening on the subject of forest and park reservation and gave interesting statistics on the growth of park systems within recent years and the improved systems of horticulture now practiced. He advocated a federation of allied interests under the general direction of the Park and Outdoor Art Association.

Mrs. Herman J. Hall, president of the Women's Auxiliary, who was the next speaker, made an appeal to horticulturists, landscape gardeners and others to aid the auxiliary in its work, with advice and suggestions. Secretary W. H. Manning, of Boston, and Treasurer O. C. Simonds, of Chicago, presented their reports, which were favorably received and were followed by Miss M. K. Christensen, secretary of the Women's Auxiliary, who told in detail of the work accomplished in this department. G. A. Parker, superintendent of Kenev Park, Hartford, Conn., presented a statistical report, giving areas and other figures in connection with the principal public parks in the United States, which closed the forenoon session.

The principal address of the afternoon was by President C. W. Eliot, of Harvard

University. His address, which was listened to by a very large and appreciative audience, dealt with the steps which should be taken to encourage Americans to live more in the open air. He referred to the more healthful customs prevailing in European countries and commented upon the apparent lack of appreciation by American people of the beauties of field, forest and seashore, especially in winter, which should be of so much benefit to the health and pleasure of the people. Rev. J. N. Hallock followed with



WM. P. RICH.

an address on "The Influence of Beautiful Surroundings on Children," after which an informal reception was held.

In the evening papers were given by Miss Myra Loyd Dock, on "State Forest Reservations," by D. J. Crosby, on the "School Garden Movement," and by Albert Kelsey, on "Water as an Effective Factor of Municipal Art." Miss Dock, who is a member of the Pennsylvania Forestry Commission, said that Massachusetts and Pennsylvania are the states that have the most state and municipal forests. The exhibition at Horticultural Hall, of maps and photographs of parks and landscape design, etc., attracted many visitors.

Wednesday forenoon was devoted to experience meetings outlining the work of the various national associations engaged in civic improvement effort, while the park representatives to the number of 150 were given a ride through the Boston park system under the guidance of the commissioners and Superintendent Pettigrew.

The next meeting will be held at Buffalo. Some of the visiting park officials are L. N. Gonger and W. R. Adams, Omaha; N. L. Flitton, Baltimore; W. M. Berry, John S. Dodge and C. M. Loring, Minneapolis; Sidney A. Foster, Des Moines, Ia.; W. L. Cukerski, Grand Rapids; H. A. Carpen, Yonkers, N. Y.; W. Armiston Roy, Montreal; D. D. England, Winnipeg; J. D. Pitts, Providence; L. R. Love, Kalamazoo; E. Baker, New Orleans; M. L. Moore, Toledo; E. A. Kanst, Fred. M. Bangs and R. H. Warder, Chicago; Theo. Wirth and G. A. Parker, Hartford; C. C. Laney, Rochester. Also T. B. Meehan, Philadelphia; O. C. Simonds, Chicago, and J. W. Spencer, of Cornell University, Ithaca, N. Y.

William P. Rich.

We present herewith the portrait of the gentleman who has been selected as secretary and librarian of the Massachusetts Horticultural Society to succeed the late Robert Manning. Mr. Rich is a native of Boston, now residing in the suburban city of Chelsea. Although engaged in active business pursuits for the past twenty years he has devoted much time to scientific studies, especially botanical research in connection with the native New England flora, a subject of which he is reputed to have an unexcelled knowledge. He is an active member of the New England Botanical Club and a frequent contributor to its literature. He has been for fifteen years a member of the Massachusetts Horticultural Society and has served for a number of years as a member of the committee on school gardens and children's herbariums.

Congressional Seed and Tree Distribution.

The position of Secretary Wilson, of the Department of Agriculture, is shown in the yearbook of the department, dated May 9, 1902, as follows:

"Congress has assigned to this department the duty of purchasing and distributing seeds and plants, and in order that there may be no question as to how and when this shall be done, the law in regard to it is made very specific. I have endeavored to meet the wishes of congress in this matter in every way possible, and to the best of my ability have secured seeds of as high character as could be obtained under the conditions under which we work. Notwithstanding all precautions, however, the system of securing seeds through a contractor is apt to cause trouble, not so much on account of the likelihood of having inferior seed furnished as of the contractor's inability to furnish the varieties called for, owing to the quantity required. This was especially the case the past year, and so many complaints were received in regard to this and other points pertaining to the work that I ordered a thorough investigation by the chief of the Bureau of Plant Industry, in whose charge the entire matter has been placed. No settlement has as yet been made with the contractor for last year's seed, and none will be made until every requirement of the contract has been fulfilled. No matter what the issue, the department is fully protected on every point.

"Although the amount to be expended for seed for the forthcoming distribution is double what it was last year, the work has been so systematized that no apprehension is felt as to our ability to send out all seeds on time. As soon as it was known how much would be available for the work, immediate steps were taken to get all the preliminaries arranged, and as a result the schedule, which provides that the distribution shall begin December 1 and end March 1, will be carried out to the letter.

"In the distribution of the vegetable seed through a contractor three important essentials are provided for; that is (1) the seeds must be true to name; (2) they must have a high vitality, and (3) they must be free from mechanical impurities. The scientific staff of the Bureau of Plant Industry is charged with the important duty of seeing that these conditions are complied with, and for every failure the contractor must abide the consequences.

"In order to increase the value of the work several changes have been made,



HOUSE OF GLOXINIAS GROWN BY ARTHUR CHILMAN, GARDENER TO F. S. MOSELY, NEWBURYPORT, MASS.

which may be briefly referred to here. It has been arranged to send out the cotton seed, tobacco seed, sorghum seed and sugar beet seed and the grasses and forage plants under the direct auspices of the officers of the department and not through a contractor. By following this plan we have been able to adopt a number of innovations which it is believed will add greatly to the value of the work. The cotton seed, for example, will be selected from high-yielding and comparatively new sorts. The department has been working for several years improving cottons by breeding and selection, and gradually the seed of these new forms will be worked into the distribution. Furthermore, the adaptation of certain varieties to peculiar conditions of soil and climate will be considered, and this, together with the gradual extension of better grades, will, it is believed, do much to improve the cotton industry in the south. Tobacco seed will be handled in very much the same way as the cotton seed, selected seed being used and varieties sent into districts where the conditions of soil and climate are favorable for their highest development.

"With the grasses and forage plants the object will be to demonstrate what varieties are of special promise for different regions, and to this end the country will be properly districted and such seed sent into each district as the experience gained through the work of the scientific branches of the department may suggest.

"It has long been my belief that much good might be accomplished by using a part of the appropriation in a judicious dissemination of some of the more valuable trees. Plans have therefore been made to place at the disposal of each senator, member and delegate in congress

a limited number of selected trees, the object being to encourage a love for tree planting and all that this work involves. It will, of course, be entirely beyond the scope of the department to send a large number of trees to any one place, but it is believed that the action contemplated will eventually lead to extensive planting through the educational effects of the work. Commercial establishments are well prepared to supply trees in nearly all parts of the country at reasonable cost, and the plan of our work will, it is believed, eventually advance their interest. Already there has been secured for distribution a choice collection of nut trees, principally pecans, and these are being grown by the department from nuts gathered from selected trees in all parts of the country.

"It is believed that some such plan as outlined for the distribution of the special crops mentioned above can be applied also to the general distribution of vegetable and flower seeds. It will certainly be an advantage to intelligently district the country and send into each district only such seeds as are likely to improve its conditions. This will obviate the necessity of having to secure such immense quantities of single varieties, a task which is often difficult to perform. It will furthermore enable the department to gradually introduce into the distribution rarer sorts, and to drop these after the first year or two, leaving the demand for them to be supplied by the trade. When the department has secured the seeds and plants which it is believed are best adapted to certain districts, its responsibility, to a certain extent, ends, as it looks to senators and members of congress to place them in the hands of such of their constituents as in their

judgment will make the best use of them. Due notice, however, will always be given of every special distribution, and in addition all information that the department possesses will be furnished, so that the recipients may act intelligently in handling whatever may be sent out. Carrying out the work as here outlined it is believed will result in good to the entire country, as is the intent of the existing law."

Culture of Gloxinias.

Arthur G. Chilman, gardener for F. S. Mosely, Newburyport, Mass., has had excellent success with gloxinias, as can be seen by a glance at the accompanying illustration. As to his cultural methods he writes as follows:

I start them the latter part of February in a temperature of 50° to 55°, in flats of good leaf soil. The tubers are set about an inch apart, with sifted leaf soil sprinkled among them and about a quarter of an inch of clean sand on the top. I like to keep the crowns above the sand; they seem to grow stronger that way. I give them all the light possible at this time.

As they grow I shift them into larger boxes, mixing a little good rose soil with the leaf mould. Finally I pot them off into 4-inch to 6-inch pots, just as the plant may require. I do not like to repot if I can avoid it, there is always the risk of damaging the leaves in doing so. In potting I use a good rose soil, one that will grow good Perles, with about one-fourth good leaf soil thoroughly mixed with it.

I grow the plants on in a temperature of 60° to 65°, probably 70° on warm days. As the flowers begin to push up

each plant is given a little Clay's fertilizer. They like this, but one needs to be careful not to let it touch the foliage, for it will surely burn. As the flowers expand I ventilate rather freely from the least exposed quarter. Gloxinias seem to like plenty of moisture, but I prefer to give it to them in the atmosphere rather than too much at the roots until they are carrying their flowers, then I reverse the practice and shade them.

Some of the plants in 5-inch pots are carrying from thirty to thirty-five fully expanded flowers each and some seedlings in 4-inch pots have fifteen fully expanded blooms. They commenced to flower the latter part of May. The picture was taken about the middle of June and at the present date, July 14, the flowers are more evenly distributed, although some of them are showing signs of being past their best. Still they are and have been a source of very much pleasure to my employers and their many friends.

Of course success depends in a large measure on details. In addition I pin my faith on the thorough ripening they receive after their flowering period. Both these and tuberous begonias, in fact all tuberous and bulbous stock, must be well ripened for best results. I may add that in potting it is my aim to keep the top of the tuber just above the soil, just as one would with cyclamens.

CARLSTADT, N. J.—Jacob H. Ullmann is adding a house 30x80 to his facilities.

Scenes Enroute to Asheville.

The railroad trip from Washington, D. C., to Asheville discloses little in the landscape scenery that is unfamiliar to northern eyes and the vegetation as seen in Virginia and North Carolina is not radically different from that of New Jersey or New York. Along the sides of the railroad tracks where the soil has been disturbed are quantities of yellow coreopsis, *Ipomoea pandurata* and a lovely hardy passiflora. An occasional lily or bunch of scarlet bignonia about completes the floral display in midsummer. The chinquapin has just got through blooming. This pretty little chestnut-like tree is exceedingly abundant on all sides and when in bloom makes an attractive addition to the woodland scenery.

The ravages of the seventeen-year locust are apparent in every direction and especially along the line between Wilmington and Washington. Oaks, chestnuts and locusts seem to have suffered most severely, but the distiguring dead branch tips with their brown leaves are seen more or less on all deciduous trees. In the cultivated fields, cotton, sweet potatoes and peanuts catch the interest of the northern visitor. There is plenty of tobacco also but no more luxuriant than that seen in Connecticut and western Massachusetts and the corn appears stunted and irregular in growth, due in part to the unusually dry season experienced in this section but also due to the unproductive quality of much of

the soil, which is in great need of a generous application of fertilizers.

Probably that feature of the landscape which will prove most interesting to S. A. F. tourists is the style of habitation fashionable with the colored brother and his equally impecunious contemporary, the poor white. How a large family manages to exist in such hovels is a problem difficult of solution and where and how the means of sustenance is procured is an equally tough puzzle. Yet there they are—not much on clothing, but fat enough and apparently contented. The little "coon" boys of varying grades of blackness that congregate about the car windows at station stops and offer "soft ripe peaches six for five" or propose a "song for a nickel" or a scramble for pennies will undoubtedly furnish rare amusement for the fun-loving contingent which is always on deck at S. A. F. affairs.

Tarrytown Horticultural Society.

At the meeting held July 31 at Tarrytown, N. Y., the executive committee reported the articles of incorporation completed, signed and certified. The following were elected to honorary membership: Mr. and Mrs. John D. Archibald, Mrs. Geo. Lewis, Mrs. J. H. Hall, John T. Terry and Addison Johnson. By request Grant Teetsale's name was transferred from the honorary to the active membership list. E. H. Bennett, Jas. H. Brewer, Chas. E. Powell and E. T. Tibbitts were elected to active membership. N. H. Dimond and Harry Stranall were proposed for membership. L. A. Martin was awarded honorable mention for dahlias and honorable mention for *Rubus sorbifolius*. Mignonette was shown by Francis Gibson and lilies by Thomas Cockburn. The essay of the evening was on stove plants, read by W. H. Waite, superintendent of Greystone, Yonkers. In the discussion which followed Messrs. Mooney, McFarlane, Scott and Donald brought out interesting points. At the September meeting L. A. Martin will read a paper on dahlias.

H. J. R.

Providence, R. I.

TRADE AT A STANDSTILL.—ALL STOCK IN OVER-SUPPLY BECAUSE OF ABSENCE OF DEMAND.—PRICES VARIABLE.—PERSONAL DOINGS.

Business is at a complete standstill, with all flowers going at unstable figures. Asters are over-plentiful at 25 cents and 50 cents per hundred and, while sweet peas are not in great surplus, the demand is light at 10 cents to 25 cents per hundred. The benching of carnations has started and it is improbable that any of the Providence florists will attend the convention. The *Macreus* seemed to be the only willing ones, but have given up the idea of going.

Thursday, July 3, was the day of the florists' excursion to Rocky Point. It was a fine day and everyone had a good time.

M. Sweeney is discussing the good that might accrue from a local credit bureau for better protection from bad debtors.

The only new feature of the week is the fine exhibit of palms, by Macnair, at the Arts and Crafts Exposition.

L. Williams has another branch. This time it is a pleasure resort on the Danielsville road.

Mrs. A. Rennie has returned from her trip to the west.

Thomas Macnair has gone north for two weeks.

M. M.



TYPICAL "MOONSHINERS" IN THE MOUNTAINS ABOUT ASHEVILLE.

(From a photograph by L. A. Berckmans, of Augusta, Ga.)



BILTMORE

Home of the Vanderbilts.



SPEAKING of Biltmore and Asheville, Col. A. K. McClure, the famous Philadelphia editor, wrote: "I have seen the grand mountain views of every part of our continent east of the Sierra Nevada, and must testify that there is no scenery this side of the Rocky mountains that equals, or even approaches the grandeur of the varied views presented here. It is not surprising that thousands of visitors come to enjoy the bracing atmosphere and unrivaled beauty of these mountains.

It is the one pleasure and health-seeking region which has all seasons for its worshippers. Its rides and drives of unequalled beauty; its dry and exhilarating atmosphere; its genial winters, even among the mountain tops, and its pure breezes and cool nights in the heat of summer, make it an all-the-year resort for those who seek pleasure, rest or fugitive health, and it is destined to become the great resort of the American continent."

This is Buncombe county, made famous by Bill Nye, the greatest American laugh creator, whose writings it is said first attracted the attention of George W. Vanderbilt to the locality. He has built there the grandest private estate in America, the show place of the city, the greatest attraction of the state aside from its climate and its scenery. Mr. Vanderbilt seeks privacy but his interest in the development of the vicinity is such, or perhaps it is his pride in his magnificent property, that he makes visitors welcome at such times as the approaching S. A. F. convention. The trip through the estate will be made on Friday afternoon and carriages will be provided by the Asheville Board of Trade.

"This drive" writes Sam Hudson, who visited Biltmore with the Pen and Pencil Club of Philadelphia, "was one of the pleasurable surprises of my life, as it showed me how the hand and the genius of man can improve upon rugged nature, and what can be accomplished with the aid of money. Mr. Vanderbilt has built 128 miles of macadamized road as smooth as a ballroom floor. He can keep driving for days over his labyrinth of roads with the eye drinking in scenery as beautiful as the continent can afford, an estate, incomparably the finest and costliest in America."

The chateau stands upon one of the steps of the mountain, about two miles from the city. It was begun in 1890 and completed in 1895. The building, about

300x700 feet in ground dimensions, built of marble, is said to have cost upward of \$3,000,000, and as much more has been expended upon its surroundings and the vast estate of a hundred thousand acres. All of the landscape gardening and the development of the park shows the master hand of Frederick Law Olmsted, under whose direction the improvements have been made. In every line of agriculture, forestry and floriculture there has been the highest development under expert direction, in order not only to improve the place itself, but to

America for the erection of a home which is as supreme among the houses of men as this spot is among the creations of nature.

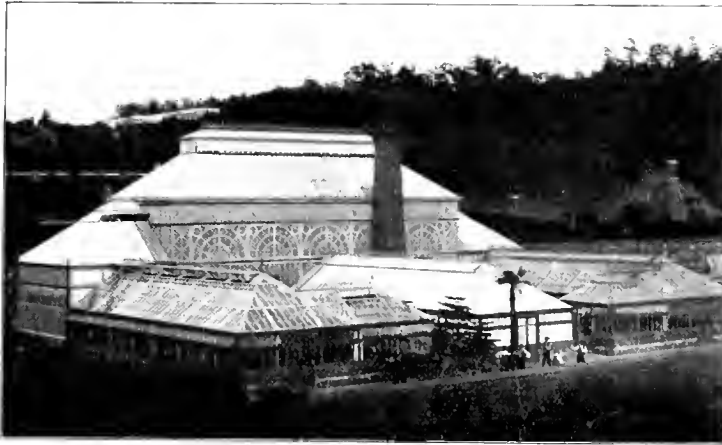
At no spot on this continent has nature, already lavish in the bestowal of her favors, received such costly assistance in artificial embellishment. Aside from fortunes spent in constructive landscape work, many, many thousands of dollars have been applied to the horticultural department, and it is this feature which will principally interest the S. A. F. visitors. Here in the end will be the

most comprehensive arboretum in this country, the climate being such as to favor the work now under way. Millions of trees and shrubs have been established and other millions will be grown and planted before the work is finished. A large force of gardeners and propagators has worked for years under the direction of Robert Bottomley, the superintendent, and an equipment is maintained which would suffice for many a large commercial establishment. Aside from the work outdoors, the conservatories are among the finest in the land and contain a splendid collection of plants. A view of the structures appears on this page. The other picture gives a glimpse of the grounds.

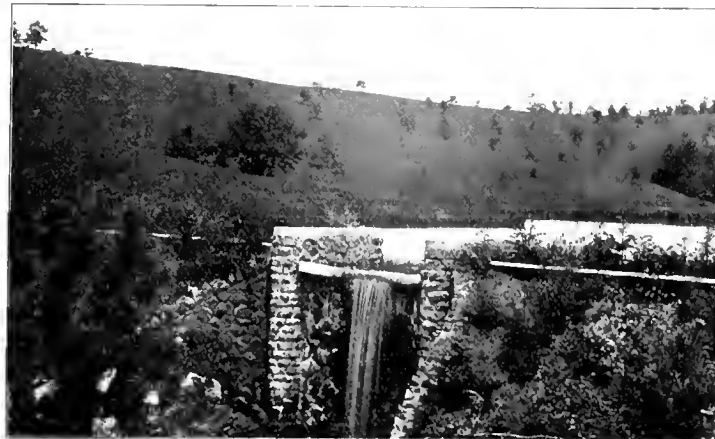
The city of Asheville itself, however, must not be ignored, as it is smart and ambitious. Imagine a town pitched upon a mountain plateau so high up that a fellow, on a day of dirty weather, can wash his hands in the clouds, expending \$600,000 upon vitrified brick paving for its streets, and which is investing an equal sum for water works. Part, at least, of this progressive spirit has been infused by the owner of Biltmore. He thinks the Carolina mountains the most wonderful place on the continent and Asheville is the natural

center of the district. Mr. Vanderbilt has made large investments in the city itself and has added a great impetus to its development.

It is worth mentioning that nowhere are there better hotels than at Asheville and at few places are the accommodations so good for the money. This is a feature that the members of the S. A. F. have reason to appreciate. It should be remembered that Asheville is on the Southern Railway and can only be reached from the west via Cincinnati and Harriman Junction, leaving the Q. & C. at the latter point. E. G. Gillett, of Cincinnati, says that the "Florists' Special" will be the finest that ever left that city.



THE CONSERVATORIES AT BILTMORE, HOME OF THE VANDERBILTS.



A GLIMPSE AT THE THOUSANDS OF ACRES AT BILTMORE.

furnish a working model which would be an influential factor in raising the standard of the entire region and state.

The mansion is a rather highly elaborated version of the architecture of Francis I. and of the chateaux of the Loire. It is exceedingly rich in every detail, and the general effect is heightened by the free employment of decorative sculpture. Those who have stood spellbound upon the esplanade of this magnificent chateau and looked out upon the wild tumult of mountains which stretch away in every direction until lost behind the curtain of the horizon, can well understand why Mr. Vanderbilt selected this particular spot of all others in

In Memory of Wm. G. Bertermann.

[By L. G. Hill, of Richmond, Ind., Read at a memorial meeting of the State Florists' Association of Indiana, Indianapolis, August 5, 1902.]

It is next to impossible to do full justice to the memory of William Bertermann, for he abounded in excellent traits of character, and I hesitate to undertake the task assigned me, fearing that I may not be able to do him the honor due his character and his life work. Most of those present have had the pleasure of knowing him intimately and well and, like myself, thoroughly appreciated and valued his unchanging friendship.

My acquaintance dates back some twenty years, but not until the founding of our state society did I come to know him thoroughly. One of his finest qualities was the intense earnestness with which he went into an undertaking; everyone who knew him was impressed by this marked trait of his character. From the very inception of our state organization, he threw into it every force and energy necessary to make it a success, sparing neither time, labor nor money to carry out the plans and purposes of the society. As our faithful and painstaking secretary for so many years, we owe him and his memory a large debt of gratitude for the success which crowned our many undertakings.

Wm. Bertermann was both thoughtful and resourceful. It was my pleasure to be taken into his confidence and to have explained to me the ideas and plans of his vigorous mind, especially in regard to matters pertaining to the holding of our annual meetings and exhibitions. Very few of us realized the great amount of thought which he gave to our interests whilst serving us. I was very often surprised and delighted with the novelty of his plans and the energy with which he carried them to a successful conclusion, for many of the problems presented to him were intricate in the extreme. He was preeminently practical in his planning, and the fame of our exhibitions was in a large measure due to the wise forethought, discretion and energetic work of our secretary. He dreaded ruts and his effort was always for the novel and the artistic and he possessed a knowledge of the popular taste which was really wonderful.

He had the welfare of the profession ever at heart and one of his oftenest expressed and most fervent desires was that the members of this society, and the craft in general, might come to a better appreciation of our profession in relation to the material and artistic development which has been taking place in this country of ours and which is still going forward. He thought that the majority of florists should be more careful in their dress, in the appointments of their places of business, and as to the dignity of demeanor as befitted those who were thrown in contact with the most beautiful things of nature. This thought was constantly with him and he often spoke of the reform necessary in these particulars.

Mr. Bertermann was appointed on the executive committee of our national society while I was serving as president and I was amazed at the time and thought that he gave to this office. Through a reorganization of the executive body, we were only favored with his services for one year. It would have been well for the society if it could have held his service longer.

He planned large things for the firm of which he was a member and the large share of trade which the firm enjoyed came from the fact that the public had learned to know him and gave to him and his brothers the fullest measure of their confidence and trust. He was an observant man and he profited by his travels and journeys, never failing to bring back ideas and suggestions which he could incorporate into his own work in the way of elevating floral art.

Mr. Bertermann's ideas regarding the need of a closer study of decorative art, and this insistence in putting into practice his thoughts and ideas on this line, relative to hall adornment and decorative effects, led at times to harsh criticism and words of disapproval from many of his florist friends, but looking back over the past, I think that we are all agreed now that he was right in insisting that our annual meeting place should be so beautiful that it should serve as an educational factor with the general public as well as with the trade.

I shall ever remember with pride and pleasure my acquaintance with Wm. Ber-

termann. The warmth and strength of his friendship, his sunny disposition, his even temper; I shall always value the pleasant hours of companionship spent with him. My last conversation with him was late last autumn, when he went over most minutely all the details of our last exhibition, giving his ideas as to what should be done at another time, should an exhibition be held, and on this same occasion he spoke of the carnival meeting to come and unfolded his plans concerning the entertainment and work incident to that most interesting occasion. Alas, we were not favored to have him with us last February in person, but we of the state society knew that he was present with us in spirit.

Wm. Bertermann was possessed of a noble, generous spirit and his kindness of heart made for him many true friends. We shall mourn his loss. We have to-day a better and keener appreciation of the motives which actuated him, and I know that his memory will be as a pleasant fragrance filling our minds with better thoughts and higher ideals concerning the things which are vital to us as a profession. The tribute of esteem which surrounded our brother's bier and which bedecked his covered grave in peaceful Crown Hill Cemetery were most fitting testimonials to the esteem in which he was held by his family, his friends and his professional brethren. His life work was cut short; his courageous battle against disease was fought valiantly but in vain. May he have sweet peace such as is given to those who are loyal to truth and right.

The Weather.

The week ending 8 a. m., August 4, was slightly cooler than usual in the west Gulf states, in extreme southern California, and over the interior portions of the north Pacific coast, the average daily temperature deficiency being less than 3°, except in northern California and the eastern portions of Washington and Oregon, where it ranged from 3° to 5°. In all other districts the week averaged warmer than usual, being decidedly warm from the central Rocky Mountain districts eastward over the central valleys and upper Lake region, where the



THE FLORISTS OF OMAHA AND COUNCIL BLUFFS ON THEIR MOST SUCCESSFUL OUTING.



GRAND PRIX AWARDED "THE AMERICAN FLORIST" AT THE PARIS EXPOSITION OF 1900.

excess ranged from 3° to 9° per day, being most marked over the middle Rocky Mountain slope. The excess in the Atlantic coast districts was generally very slight.

Maximum temperatures exceeding 100° occurred over the middle and eastern Rocky Mountain slope and in the upper Missouri Valley, the highest, 104°, occurring at Pueblo, Colo., and Concordia, Kans., the maximum record for the first decade of August in previous years being exceeded by 2° at Concordia. No unusually high maximum temperatures occurred east of the Mississippi River. A few stations in the lower Ohio Valley report readings of 98°, but over the northern districts east of the Mississippi they were generally below 90° and in the Middle and South Atlantic and east Gulf States generally range from 90° to 94°.

Over much of the greater part of the country east of the Rocky Mountains the minimum temperature ranged from 60° to 70°, being slightly above 70° along the South Atlantic and Gulf coasts and below 60° in the extreme northern districts.

SEASONAL TEMPERATURE.

The seasonal temperature from March 1 to August 4 (157 days) continues in excess of the average over much the greater part of the country, although the area of deficiency, which is confined to the Pacific coast and Rocky Mountain regions, is somewhat greater than earlier in the season. Over the western Plateau

districts the seasonal deficiency ranges from 1° to 3° per day, and is greater in western Nevada. The area of excess embraces nearly all districts east of the Rocky Mountains and also the eastern portion of the southern Plateau region. The excess amounts to more than 1° per day over the greater part of the central valleys and Southern States and exceeds 2° per day over portions of the Lake region and Red River of the North Valley. Along the south Atlantic coast the seasonal temperature is nearly normal.

PRECIPITATION.

Very heavy rains have fallen in central and northeastern Texas, northern Louisiana, over the greater part of Arkansas and western Tennessee, and northern Mississippi, in which districts weekly rainfalls ranging from 1 to more than 10 inches are reported. Generally well distributed rains occurred in portions of the Missouri, Red River of the North, upper Mississippi and Ohio valleys, and Middle Atlantic States, where the total for the week ranged from ½ inch to more than two inches. Less than the average amount fell generally throughout the South Atlantic and east Gulf States, over most of the Lake region, and in portions of the lower Ohio, central Mississippi and lower Missouri valleys. There was also less than the usual rainfall along the immediate west Gulf coast. A considerable portion of the upper Lake region received no appreciable amount, and there was a general absence of rain in the Rocky Mountain and Pacific coast dis-

tricts, except on the coast of Washington, where light showers occurred.—*Weather Bureau Bulletin.*

New York.

PAST WEEK THE Dullest thus far in the summer.—PRINCIPAL INTEREST IN CONVENTION TRIP.—GOOD-SIZED PARTY SEEMS ASSURED.—REMEDY FOR A Borer.—VACATIONS.—NOTES.

News is scarce in this section of the country. Very little is doing in the cut-flower line. Indeed, the past week is commented upon by many as the deadest ever experienced at this dead season of the year. A desultory agitation is going on daily regarding the trip to Asheville and it develops, as the returns come in, that this neighborhood will send a fairly good-sized delegation to the convention, the transportation rates being unexpectedly favorable and the interest seems to increase as the time approaches, under the inspiring efforts of the very efficient committee in charge.

Dunne & Company have discovered a prime remedy for the troublesome borer that has made so much havoc with bark-covered rustic settees, etc. They have named it Dunnite No. 5, and all rustic work sent out by them now receives a good coating of the remedy before shipping. They have equipped a big factory at Kingston-on-the-Hudson for this department.

Mrs. Hallinan, with her daughter Marguerite and son George, is at Ossining for two weeks with her mother. On her

return C. A. Bird will take his family on a fortnight's crabbing and fishing expedition, but he says he will put away all rings before starting. This is one on Mallon, of Brooklyn.

Charles Snell, recently with Thorley, has accepted a position with W. J. Palmer, of Buffalo, in the new store which Mr. Palmer is to open on September 1.

Frank Traendly is off this week on a trip to the Thousand Islands.

Chicago.

MARKET HAS ITS UPS AND DOWNS.—TRADE HAS AN OCCASIONAL SPURT.—BEAUTIES THE BEST OF THE ROSES.—ASTERS SUBSTITUTED ON ALL KINDS OF ORDERS.—GLADIOLI RECEIVED IN IMMOVABLE QUANTITIES.—DOINGS OF THE GROWERS AND OTHERS.—VACATIONS IN ORDER.

Trade continues to have its ups and downs, one day fairly active, the next decidedly dead. There is very little stock, except garden flowers, and there is difficulty in filling orders. Beauties have improved in quality under the influence of a few days of favorable weather and the cut from the early benched young plants is decidedly the best stock in the market. Several growers are cutting considerable quantities for so early in the season, but the demand fluctuates so strongly that what is a shortage one day frequently develops into an oversupply the next. Brides and Bridesmaids are scarce and poor. Meteor is better. Those few growers who provided houses of Kaiserin, Liberty, Marquise Litta, La France, Carnot or Golden Gate for summer cutting are reaping a reward in proportion to their enterprise. White carnations are very scarce and in the greatest demand. There are not many colored ones good enough to ship and asters take their place as a general thing. As a matter of fact the buyer who adds the code word "dancing" to his order is pretty certain to find that the box contains a large proportion of asters. Asters are likely to be substituted for almost anything these days. The good asters sell well but there is a lot of low grade stock on the market which moves slowly and at very low prices. Gladioli are coming in by many thousands. Some of the fancy varieties sell well but most of the commission houses have bucketsful standing around out of which they will never realize the express charges. There are still plenty of auratum but not so many longiflorum. Greens are abundant and not in active demand.

The George Wittbold Company has completed its new range of three houses at Edgebrook and moved in the stock this week. The houses are strictly up-to-date, 27x300, and give an opportunity which the firm has long needed of growing the stock on to larger sizes. Otto Wittbold will live at the new place and have charge. Henry Wittbold will also live at Edgebrook and conduct the nursery department, for they are going into hardy perennials and other kindred lines.

The daily papers are full of talk about a strike by the drivers for all the express companies in the city. Such a move, with the animosities and strife it would create, would be a serious thing for the cut flower business and every other line in which the stock is perishable. The men ask a raise of from \$5 to \$10 per month, a ten hour day and 35 cents an hour for overtime and the management is obdurate.

The Kroeschell Brothers Company is

again tied up by a strike of boiler makers, which includes every boiler shop in Chicago. Not only has all work ceased but boilers already made cannot be shipped because the teamsters' union will not haul them to the depot pending the settlement of the difficulties. It is not now thought that the strike will be of long duration.

Sinner Brothers have put in a busy season, remodeling their carnation houses and building a cistern to hold 110 barrels of manure water. They do not believe in keeping on the dry side. By August 1 they had finished benching carnations, having housed 15,400 plants, all looking fine. The roses, too, are in good shape, making fine growth. G. E. Anderson is the grower in charge.

The committee is planning a great time for the Florists' Club picnic at Bergman's Grove, Riverside, next Tuesday. There will be a long list of contests, for which some fine prizes are offered. Meet the committee at Wabash and Randolph street at 10:30 and go along. Take Garfield Park branch of the Metropolitan "L."

Edgar Saunders was stricken by the heat July 31. Paralysis of the right side ensued but his medical advisers do not consider the case serious. There has been very little change in his condition during the week but the doctors are hopeful of early improvement.

Jacob Heinz, a nurseryman, was driving on Hinman avenue, Evanston, Thursday when his wagon load of trees was collided with by an automobile run by R. D. Markham. The auto was wrecked, the wagon smashed and the nursery stock ruined.

C. L. Washburn returned Tuesday from his week in the woods and on Wednesday O. P. Bassett and Mrs. Bassett went to Athelstane, Wis., from which they have a twelve-mile drive to the fishing club where Mrs. Washburn is domiciled.

F. A. Baller, the pronia and clematis grower of Bloomington, called here during the week en route to Sheboygan, Wis., where he will spend his vacation. Mr. Baller says business has been unusually good with him this season.

A. Dietsch is home again from the southwest, where he spent the winter, and enjoying very good health. He hopes he is cured of the asthma with which he has suffered for the past two years.

Edward Palmis, for seven years with Swain Nelson & Sons, is now located at his own greenhouses, 258 West Huron street, where he will grow a miscellaneous stock and do a general retail business.

S. Wachenheim, of Vicksburg, Miss., who has been spending a month's vacation at the Wisconsin summer resorts, called upon several local firms during the week.

The supply dealers report business keeping up very well this summer. Both E. H. Hunt and McKellar & Winterson have been busy right along.

G. H. Piesser, secretary of the Kennicott Brothers Company, leaves next Tuesday for a two weeks' fishing trip to Lakewood, Wis.

T. D. Mosconesotes, at the Masonic Temple, is handling large quantities of short American Beauty roses these days.

Miss Grace Todd, bookkeeper for E. C. Amling, has gone to Wakeman, O., for a two weeks' vacation at her old home.

J. B. Deamud is again at his place of business, having returned from Michigan early in the week.

George Reinberg is cutting outdoor carnations to the extent of several thousands daily.

Miss Jessie Ludlow, who has been down with diphtheria, is progressing favorably.

John Thorpe is at Kansas City on business connected with the fall flower show.

The last heard of John Mangel he was enroute from Paris to Rome.

Philadelphia.

WELL ATTENDED MEETING OF THE CLUB.—HALF A HUNDRED IN THE ASHEVILLE PARTY.—GOOD TIME ASSURED.—REASONABLE HOTEL RATES.—CONVENTION TO BE DISCUSSED NEXT MONTH.—BUSINESS LIGHT.—BEAUTIES IN DEMAND.—VARIOUS LOCAL NOTES OF INTEREST.

The August meeting of the club was very well attended, the interest in the coming convention being the attraction. Chairman Watson, of the transportation committee, reported that his list of acceptances had already reached thirty-six, and it is thought that with this showing now the party will finally number over fifty. Many of those who are going were present and expressed themselves as looking forward to a delightful trip, as the section of country is so different from that of other meetings. The rate of fare for the distance traversed is very low, a trifle over \$20, with \$3 each way from Washington for Pullman car accommodations. Mr. Rust, of the hotel committee, reported that the accommodations are excellent and quite reasonable in price, ranging from \$3 to \$4 per day at the Battery Park and \$2 to \$3 at the Swananna, both on the American plan. He also reported several other houses on the European plan at from \$1 per day upwards. One of the interesting details was that Chairman Westcott is provided with the wherewithall, so that the tourists or the friends they meet on the way shall want for none of the good things that usually accompany the delegates on such occasions. The subject for next month's meeting is, as has been the custom for the past ten years, "The Convention." This year it is to be enlarged on and judged from different standpoints. Joseph Heacock will speak for the growers, S. S. Pennock for the commission men and M. Rice will represent the supply houses. The retail end will be held up by George Craig, while Jno. F. Simson will tell what he saw to interest the gardeners.

Business is very light in the stores at present. With the exception of asters and Kaiserin roses there is not much to offer the few customers who do break in on the silence that prevails. John Burton is cutting a few new crop Beauties which are grabbed up instantly by those lucky enough to see them. Leo Niessen says there are not near enough summer Beauties, and if growers would devote a little time to them a trade would be built up that would undoubtedly pay. S. S. Pennock says that he cannot get near enough Beauties for his regular orders. He hopes the new crop will soon make its appearance.

Since Robert Craig has returned from Summit, N. J., looking much benefited by his trip, Robert Craig, Jr., is away on his vacation. The work on the four large carnation houses being erected by the Lord & Burnham Company is going forward. The stock to be planted is mostly of the new carnation, Adonis, and is looking fine. Snatches of base ball talk are heard where two or three are gath-

ered together here and naught but pity is expressed for that city team when they make their appearance next Saturday.

A rolling chair parade is to take place in Atlantic City Friday of this week. It is to be a floral affair, as all the chairs are to be decorated with natural flowers. We hear of some large orders that have been received, and if the weather turns out all right the parade will no doubt be a great success and incidentally use up a great lot of asters, rudbeckias, hydrangeas and the like. K.

St. Louis.

TRADE NOT ACTIVE BUT GROWERS BUSY.—PRODUCING AND PREPARING FOR ANOTHER SEASON.—WHOLESALE PRICES.—CLUB TO CROSS THE RIVER FOR ELECTION.—VARIOUS NOTES.

The market has made no decided gain on last week. Roses are selling at from \$2 to \$3 and even lower for some. Carnations are quite plentiful and enough white are now had to supply the demand. White Cloud is about the best variety sent in and this brings as high as \$1.50 for the best; 75 cents per hundred is the general run. Asters are coming in quite plentifully and bring from 75 cents to \$1 per hundred. Pink asters are not as plentiful as the whites and purples. Tuberoses are bringing from \$3 to \$5. There is a better market for singles than for the doubles. Gladioli are going very slowly at from \$2 to \$3. Sweet peas are about done for at present.

A visit to the Tesson greenhouses found all busy repairing and planting. They have several fine houses of roses, some in their second year. The chrysanthemums are also fine. There is in the neighborhood of 30,000 square feet of glass in this range and all in very good condition. If the World's Fair people succeed in getting this tract they will without a doubt use these houses to grow their stock plants and bedding plants in. This deal is not as yet settled, but will be in a short time. The rose houses are 300 feet long and are of the three-quarter span style. The plant is heated by steam from two large boilers. All the soil used has been sterilized and there are no weeds.

The annual election takes place at the next regular meeting of the St. Louis Florists' Club and all who possibly can should be present, for that reason, as well as for the chance to see Mr. Ammann's range of greenhouses, for the meeting will be at Edwardsville. Take Stock Yards car at foot of Ead's bridge in East St. Louis at 12 o'clock, and transfer to Gross Park car, which will land you in Edwardsville at 2 o'clock. A good time is promised and there will be much of interest in the trip.

H. G. Berning and wife have started on a trip west and will be gone several weeks. His base ball nine played the Tesson team and beat it with a score of 3 to 1. The next game, which is to be played in a short time, is promised to be very lively and may end differently in regard to score. Mr. Berning is having bad luck with his horses. Both of them are out of commission and all delivering is done on foot or by cars.

It does not seem that there will be a very large delegation from St. Louis to the S. A. F. convention this year. So far the following people expect to go: Fred. Weber, wife and two children; George Windler and two ladies; C. C. Sanders, John Connon and Adolph Fehl, of Belleville, Ill. The last two are still doubtful.

J. A. Peterson, of Cincinnati, is in town. R. J. M.

Boston.

NO DEMAND FOR CUT FLOWERS AND LIGHT RECEIPTS AMOUNT TO AN OVER-STOCK.—ASTERS IN UNWELDY SUPPLY.—FINE GLADIOLI.—A GOOD EXHIBITION.—NOTES AND VISITORS.

The market is decidedly off color this week. There is not a surplus of cut flower stock of acceptable quality if there was anything doing, but there is not. The shipping trade languishes, being far behind the record for previous years. The weather has been against the beach business, but it is fair to expect that the day is not far off when conditions will change and then it will be a short and a merry hustle. American Beauty is improving in quality, the average of stock offered being of fairly good grade. A great many short-stemmed roses are now coming in, quality not bad. Carnations are not abundant. On the other hand, asters are so plentiful that it is next to impossible to sell, for any price, the heavy accumulation and at present time practically no offer is refused by those who hold the flowers, even though the results would not pay even the cost of picking. Lily of the valley is of excellent quality. Among the summer specialties is the Shakespeare gladioli, which is being received by the wholesalers in a quality never excelled but, as with other things, the market does not respond. Sweet peas are overstocked daily.

The exhibition at Horticultural Hall on Saturday, August 2, was rich in phloxes, of which T. C. Thurlow and Geo. Hollis showed each a fine collection of named varieties. Antirrhinums from Mrs. J. B. Lawrence and W. J. Clemens, phloxes from W. J. Clemens, dahlias from B. F. Flanders, gloxinias from F. A. Blake and herbaceous flowers from Shady Hill Nursery were among the attractions in cultivated displays and the collections of wild flowers were very extensive and interesting. The mushroom exhibit of the Boston Mycological Club included sixty-one species.

Among the many visitors this week are W. A. Peterson and wife, Chicago; Aloise Frey, Hartford, Conn.; Chas. J. Molloy, Rochester, N. Y.; H. H. Battles, Philadelphia, and C. B. Weathered, New York.

Detroit.

CLUB HAS A WELL ATTENDED MEETING AND ELECTS OFFICERS.—NICE PARTY ASSURED FOR CONVENTION TRIP.—TRADE DULL.—A NEW FIRM.—BATCH OF PERSONAL NOTES.

Thirty members of the club attended the regular meeting last Wednesday evening. It was the occasion of the annual election of officers, which resulted as follows: President, Edward Beard; vice-president, John Dunn; treasurer, B. Schroeter; secretary, J. F. Sullivan. The contest for president was a spirited one between the two nominees, Robert Flowerday and Edward Beard, but on the fourth ballot the latter had a majority of four votes over the opposing candidate, who was, however, absent. Mr. Dunn, for vice-president had a handsome majority while the treasurer and secretary were unanimously retained.

The party going to Asheville will consist of Jas. Taylor and wife, G. H. Taepke and wife, Philip Breitmeyer, Wm. Dilger, Robert Watson, Harry Smith, Geo. Reynolds, J. F. Sullivan and good prospects for a few others. As previously stated, the party will leave Detroit Sunday evening, August 17, at 10 o'clock via M. C. and C. H. & D. railways to

Cincinnati, which will be reached Monday morning at 7 o'clock, where the northern delegations will be joined, leaving there by special train at 2 o'clock that afternoon.

Midsummer condition of trade still prevails, with but little variation. Recent favorable weather has been conducive to an abundance of all kinds of outdoor flowers and especially asters, which are very fine. Some good carnations are yet to be had but roses are small and few of them in the market, with the exception of some fine Beauties.

Brown & Northcott is the firm name of the successors to Chas. Schauble, 308 Woodward avenue. Mr. Brown has been in the employ of the Detroit Floral Company for the past fifteen years. His partner is not a florist but joins Mr. Brown as a business venture.

E. H. Smith, who has been foreman for J. F. Sullivan for the past two years, has accepted a similar position with the Park Floral Company, Denver, Col., and left for there with his family last Tuesday.

Elmer D. Smith and wife, of Adrian, stopped over in the city a short time Tuesday on their return from a two weeks' trip to Mackinac and the Georgian Bay.

Robert Watson, of Townsend avenue, is building one house 18x75 feet and a coal shed 15x35 feet.

Geo. W. Davis is building three houses, each 15x85 feet, and a work shed 10x50 feet.

Frank Holzuagle visited the florists of Toledo last week.

Wm. Dilger is visiting the trade in Cleveland.

Visitors: J. A. Valentine, Denver, Col.; C. W. Scott, Chicago; Elmer D. Smith, Adrian; B. Rosens, J. Austin Shaw, C. S. Ford, New York; S. S. Skidelsky, Philadelphia. J. F. S.

Indianapolis.

ASSOCIATION OF FLORISTS HOLDS MEMORIAL MEETING.—DOINGS OF THE GROWERS.—PERSONAL AND OTHER NOTES.

The memorial meeting of the S. F. A. held August 5 in honor of William G. Bertermann was very well attended. Those present from outside the city were J. A. E. Haugh and J. A. Evans. All members paid high tribute to Mr. Bertermann, dwelling upon his great energy and immense working capacity. It was also mentioned that the association of the florists of the state was mostly due to Mr. Bertermann's efforts. A communication from the Bertermann family was read, in which they expressed their thanks for the sympathy shown them by the association and all state florists. Brothers of the deceased presented the association with a set of photographs of Mr. Bertermann, which were distributed to all members present.

F. Hückriede & Son will soon have their place equipped with city water. There will then be a good chance for a less fortunate brother to buy a wind-mill cheap.

Albin Schreiber, of Bertermann Bros., is almost through planting carnations in the houses. His plants are extraordinarily fine.

The fact that outdoor asters and sweet peas are done with is deplored by some and rejoiced over by others.

Miss M. Wurmell, of Huntington & Page, is in Chicago for a week.

John Heidenreich has put in a new forty horse-power boiler.

Mr. Hasselman and family are in Maxinkuckee. H. J.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements on all except cover pages,
10 Cents a Line, Agate; \$1.00 per inch.
Cash with Order.

No Special Position Guaranteed.

Discounts are allowed, **only on consecutive inser-**
tions, as follows—6 times, 5 per cent; 13 times,
10 per cent; 26 times, 20 per cent;
52 times, 30 per cent.

Cover space sold only on yearly contract at
\$1.00 per inch, net, in the case of the two
front pages, regular discounts apply-
ing only to the back pages.

The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines *only*.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

THE public seems to take it for granted
that St. Louis will be the meeting place
for all conventions in 1904.

CORRESPONDENTS and advertisers are
urged to get their "copy" in early for the
big Convention Number, to be issued
next week.

THE Federal inspection law to which
the American Association of Nurserymen
has given its endorsement and which is
expected congress will pass at the next
session, does not apply in interstate com-
merce to florists' stock.

Helpful to All.

ED. AM. FLORIST:—We value the
FLORIST for the profitable advice we
find in its columns. We are beginners
and find it very helpful in building up our
trade. Put us down for another year.

HAMMERSCHMIDT & CLARK.

Medina, O.

Cincinnati to Asheville.

The Florists' Special, via the Queen and
Cresecent and Southern Railways will
leave Cincinnati at 2 p. m., August 18,
reaching Asheville for breakfast the next
morning. All delegations and individ-
uals from the north and west should so
time their start as to reach Cincinnati
for this train.

Chicago to Asheville.

Everyone from the west and north-
west is invited to join the Chicago party
to the S. A. F. convention. If you buy
through tickets see that they read via
Big Four railroad Chicago to Cincinnati.
Round trip fare from Chicago, \$20.00.
Write E. F. Winterson, 45 Wabash ave-
nue, or the AMERICAN FLORIST and
acomodations will be reserved for you
on the cars from Chicago, which will be
a part of the special train from Cincinnati
to Asheville.

Washington to Asheville.

The special train from Washington for
Asheville will leave Washington, D. C.,
via the Southern Railway on August 18,
at 5 p. m., arriving at Asheville at 9 a.
m., on the morning of the first day of the
convention. All florists from Boston,
New York, Philadelphia, Baltimore and
way stations will time their departure
so as to arrive here in good time for the
special, as the next regular train leaving
Washington will not reach Asheville
until 1 p. m., too late for the opening of
the convention.

P. BISSET, State Vice-president.

Greenhouse Building.

Carlisle, Pa.—Carlisle Nursery Com-
pany, house 60x300.

Essex, Conn.—Fred. Scholes, one house.
Meriden, Conn.—A. Greenbacker & Son,
one house 60x75, one 20x60.

Binghamton, N. Y.—Charles Hopkins,
one house.

Marseilles, Ill.—F. P. Tisler, two houses
16x32.

Randolph, Vt.—Burnell & Totman, car-
nation house 18x100.

South Sudbury, Mass.—F. W. Good-
now, cucumber house.

Wilson, Conn.—W. Bancroft, carnation
house.

American Carnation Society.

PRELIMINARY PREMIUM LIST.

The American Carnation Society has
issued the preliminary premium list for
the exhibition to be held at Brooklyn, N.
Y., in February, 1903. Class A is for
vases of 100 blooms of the usual eight
color divisions, premiums \$12 and \$6 in
each. Class B is for vases of fifty blooms
of the same colors, premiums for each
color \$6 and \$3. Class C is for vases of
twenty-five blooms, premiums \$3 and
\$1.50 in each color. Certificates of merit
and preliminary certificates will be
awarded as heretofore. Among the special
prizes are three for a collection of not
less than ten or more than fifteen vari-
eties, not less than fifty or more than 100
of each. The Ward silver cup and a
second prize of \$10 are offered for collec-
tions of not less than six or more than
ten varieties, not less than fifty or more
than seventy-five blooms of each. Two
prizes are offered for the competition of
growers with not more than 15,000 feet
of glass, for collections of not less than
five or more than eight varieties, not less
than twenty-five or more than fifty
blooms of each. A silver cup is offered
for the best 200 blooms of any variety.
Two prizes are offered for best single
blooms. The gold, silver and bronze
Lawson medals are offered as three pre-
miums for vases of 100 blooms of any
variety. The S. A. F. silver and bronze
medals are offered for undisseminated
varieties.

The regular premium list and pro-
gramme of the meeting will be issued
early in January and will contain
announcement of many other special pre-
miums.

Society of American Florists.

RAILROAD FARES TO ASHEVILLE.

Members in Western New York state
and Pennsylvania will please note the
following modification of arrangements
regarding railroad fares to Asheville as
heretofore announced: The Trunk Line
Association, comprising the railroads in
the middle states, east of Buffalo,
Pittsburg, etc., will sell tickets to Ashe-
ville and return on the basis of one and
one-third fare to Washington plus one
fare therefrom to Asheville, except that
*from Buffalo Pittsburg and other Trunk
Line termini on the west via Washing-*
ton regular one-way fare via Washing-
ton will apply for round trip, charges from
intermediate points on direct lines not to
be higher. This gives all those attending
the convention from or via Buffalo or
Pittsburg and neighboring territory the
concession of one fare for round trip in
common with Cleveland, Chicago and
other western centers. These will be
regular round trip tickets, no certificates
being required, limited to continuous
passage in each direction. They will be

sold and good going, August 17, 18 and
19, and one day earlier than these dates
from Buffalo, Pittsburg and other Trunk
Line western termini, with final return
limit of August 25 inclusive.

DEPARTMENT OF PLANT REGISTRATION.

M. H. Walsh, Wood's Holl, Mass., reg-
isters climbing rose Wedding Bells, a
seedling from Crimson Rambler, flower-
ing from June 1 to July 1. Flowers
cherry pink, borne in large clusters on
every shoot. Flowering shoots spine-
less. H. T. Rose Princess, Margaret
Dickson x La France, 1898. Color flesh
pink, buds large, pointed; stems strong
and straight. H. T. Rose Franca, seed-
ling from American Beauty, 1897. Color
intense carmine, vigorous, foliage large,
stems stout; free bloomer.

Lager & Hurrell, Summit, N. J., reg-
ister Cattleya Hardyana Mrs. Geo.
Schlegel, Cattleya gigas x C. chrysozona;
a natural hybrid from Columbia. Bulbs
and foliage extra large and strong.
Flowers, sepals and petals deep rose pink,
lip over three inches across, very long, of
intense purple color heavily fringed and
and lacerated, throat golden yellow
spreading laterally into two unusually
large blotches.

J. B. Trudo, Alderbend, N. Y., registers
Carnation Miss Aimee, Mrs. Lawson x
Eldorado. Flower white, edges finely
striped scarlet, clove scented, three to
four inches across. Foliage glaucous,
stems wiry, holding heavy flowers erect.
Height two feet. Carnation Miss Alice
Roosevelt, Mrs. Lawson x Eldorado.
Color white dotted and splashed with
carmine to center of each petal. Flower
three and one-half to four inches across,
full, edges fringed, clove fragrance. Fol-
iage glaucous, stems stiff, two feet high.

WM. J. STEWART, Sec'y.

A Sidehill Greenhouse.

ED. AM. FLORIST:—I have a piece of
land on a hillside which slopes about four
feet in eighteen. I am thinking of build-
ing a greenhouse 18x60 here. The hill-
side faces south and the house would run
east and west, the long span to the
south. What would be the proper length
of sash bars for each side. On which side
should the ventilators be? What heating
system will give the best results with
the least fuel? Would a natural bed on
the north side do as well as a bench? If
so how would you heat it? Would
12x12 glass be an economical size? How
does one prepare soil so that no weeds
will grow? W. T. G.

For the location described it will be
well to have the walls of about the same
height above the present level of the
land, if the grade is to be left as it is now.
When a greenhouse is built on a side hill
there is always more or less trouble in
securing the same temperature on the
lower as on the upper side, the difference
often being as much as 10° when the
wind is strong from the south, and my
choice would be in an 18-foot house to
grade the site so as to have the difference
in level two feet at most. This would
make it possible to have the same differ-
ence between the heights of the north
and south walls; that is, the north wall
would stand two feet above the south
one. If the house is to be eighteen feet
inside measurement, the sash bars could
be thirteen and one-half and eight feet.
The ventilating sash will give rather
better satisfaction on the south side,
and, especially if the prevailing winds
are from the south, they should be hinged
at the lower edge.

For a single small house hot water should be used for heating. In sections where the temperature does not drop much below zero twelve 2-inch pipes will be needed for roses and nine for carnations. In case a solid bed is used along the north side, it will be well to have a walk between the bed and the wall and carry part of the pipes on the wall. In order to warm the soil of a solid bed it will be a good plan to carry an extra heating pipe in the bed at a depth of one foot.

For most crops it will be best to use glass that is 16x20 inches, but a smaller size will answer for some purposes, such as growing violets. Where one does not have steam heat, the best way to compost soil is to pile up sods and cow manure, using about five to one, during the early summer, wetting it down well if dry. After three or four weeks of warm weather it can be worked over, cutting the sods into thin slices. If the pile is kept moist and is worked twice more at intervals of four weeks most of the weed seeds will be killed and the soil can be stored in the fall for use during the winter.

L. R. TAFT.

The Present Fad.

Oh, Mary had a little mat
Of raffia to sew,
And everywhere that Mary went
That mat was sure to go.

It followed her at home, at school,
Hung by her side at meals;
"Oh, mother help me splice this on,
Nor mind my stocking heels."

And Johnny had a basket, too,
Of strong rattan to braid;
It kept him from all household tasks,
And neath his pillow laid.

Now everybody has a loom
Designed by brainy man,
To weave with rags a heathen rug
Of most artistic plan.

And when the teacher quite worn out,
Goes home, what doth appear
But rugs and b. skets strewn about
For her to finish here.

"Why doesn't Johnny learn to spell?"
The anxious mothers cry.
"Because we cannot weave it in,"
The teachers do reply.

—Linden Hill News.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plain ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—Rose, carnation and mum grower.
GROWER, 88 Walnut St., Cleveland, O.

SITUATION WANTED—To take charge; roses, carnations, etc.; married; references. State wages. Address Wm. KIRKHAM, Hunt's Hotel, 148 Dearborn St., Chicago Ill.

SITUATION WANTED—By gardener and florist, either private or commercial place; aged 34, single; 20 years' experience in all branches. Address O. P. care American Florist.

SITUATION WANTED—By experienced grower of roses, carnations, etc., competent to take charge. Single; good references. South or east preferred. Address H. J. care Am. Florist.

SITUATION WANTED—By experienced florist as foreman; 20 years' experience growing roses, carnations, chrysanthemums and general stock; age 37; married; references. Address F. W. NORTH, Box 27, Stamford, Conn.

SITUATION WANTED—By Gorman 33; single; 18 years' experience in cut flowers and pot plants; 8 years in this country. Please state wages without board and room. KIEFNER, care York's Greenhouses, Hancock, Mich.

SITUATION WANTED—About Sept. 1st, by good grower of plants and cut flowers, as foreman or grower in up-to-date retail business; 15 years' experience. All references. Address L. care Schiepan, 3455 State St., Chicago.

SITUATION WANTED—In western state only, by experienced florist, as working foreman or grower of first-class stock. Successful propagator and grower of roses, carnations and general stock. Permanent place with fair wages looked for. WESTERN, care American Florist.

WANTED—1,200 feet 4-inch pipe in good condition. PETER BRITZ, Danville, Ill.

WANTED—Competent storeman. Must be sober and reliable. References required. CENTRAL GREENHOUSES, Sandusky, O.

WANTED—Greenhouse men; steady work; will pay good wages. With or without board. Address R. care American Florist.

WANTED—Man for greenhouse work, one handy with tools and understands about piping. Call 258 W. Huron, Chicago.

WANTED—To buy some palms for decorating purposes. Give description and price. STACKHOUSE & GREER, 113 South 13th St., Lincoln, Neb.

WANTED—A good florist for retail place to do growing, roses, carnations and violets. Good wages to right man. Apply promptly. MUNCIE FLORAL Co., Muncie, Ind.

WANTED—Two young men to work in greenhouses—Roses and carnations. State wages wanted with board. Address COLE BROS., Box 577, Peoria, Ill.

WANTED—Married man, experienced in general greenhouse work. Steady employment to right man. State experience and wages expected. C. G. ANDERSON & Co., Red Oak, Iowa.

WANTED—Young man with some experience in growing general greenhouse stock. Also man to work in nursery. Give references and wages expected. Address HOOSIER, care American Florist.

WANTED TO RENT—Five to eight greenhouses in or near Chicago with view of buying. Same must be in good condition. State full particulars as to size, price, terms, location, etc. Address GREENHOUSE, care American Florist.

WANTED—A good man who understands the growing and propagating of carnations and roses. Must give good reference from last place; sober and industrious. State wages required. GEO. WATSON, Box 846, Redondo, Cal.

WANTED—A young man who understands something about orchid and fern growing. State where last employed and wages wanted, with board. Address J. M. GASSER Co., Euclid Ave., Cleveland, O.

WANTED—Propagator of roses, carnations, etc., must be thoroughly first-class; no others need apply. Also a few growers of roses and carnations for sections. Good wages and steady work. LAKEVIEW ROSE GARDENS, Jamestown, N. Y.

WANTED—Experienced grower of Beauties and roses, able to take charge of range of houses and turn out first-class stock. Good wages to man with acceptable references. Married man preferred. Address H. care American Florist.

WANTED—A working foreman to take charge of 22,000 square feet of glass, where first-class roses and carnations are grown, also one house of pomsettia; also one assistant. State age and wages expected, with board and washing. Apply to JOHN L. WYLAND, De Haven, Pa.

FOR SALE—1,800 feet new 1 1/2-inch standard wrought iron pipe, 7 cents per foot. C. D. GALLENINE, Morrison, Ill.

FOR SALE—Two medium-sized hotwater heaters in perfect condition. GEO. STAFFLINGER, Springville, N. Y.

FOR SALE—Well established greenhouse business, 12,000 feet of glass; steam heat, 100 miles from Chicago. INDIANA, American Florist.

FOR SALE—Two hotwater boilers. 1 upright tubular 8 horse power boiler, \$80; 1 weathered cast iron boiler, \$85. J. L. PILLSBURY, Galesburg, Ill.

FOR SALE—Dwelling and greenhouses, (no stock) centrally located in city of 4,500 Long-established, paying business; no competition, 3,200 feet of glass. Cause, death of owner. Mrs. MARY BEZNER, EXT., Jerseyville, Ill.

FOR RENT—A prosperous retail and wholesale business; new houses complete; 15,000 feet of glass, 16x21—one acre of land and dwelling; rent \$60 per month; opposite Woodmore cemetery gates; one mile from Detroit, Mich. Address ANTON KAER, Woodmere P. O., Mich.

FOR SALE OR LEASE—In a city of about 50,000 population, a well established greenhouse plant of 25,000 feet of glass, good dwelling barn and everything complete. Will sell on easy terms or rent as long as parties want, but parties leasing same must buy stock. Don't answer unless you mean business. R. J. care Am. Florist.

FOR RENT—At Frederick, Md., greenhouses in complete order, 162x20, 63x18, 107x11, boiler room 80x18, equipped with No. 8 Furman boiler, small heater and all necessary pipes; large mushroom pits, stable, two acres of ground, dwelling for rent in immediate neighborhood; coal, manure, labor cheap, city water; no stock on hand. Rent \$300 per annum, half payable in advance every six months. Ill health of owner compelled retirement from successful business; principally vegetables under glass and mushroom for Washington and New York. Address HENRY TRAIL, Frederick, Md.

Wanted EXPERIENCED TRAVELER to sell European Plants, Bulbs, Seeds, etc.

Wholesale Swedsmen, Florists and Nurserymen. Must be of gentlemanly appearance, healthy, sober and energetic. Steady position. State references, former occupation and salary wanted. Address confidentially.

AUG. RHOTERT, 26 Barclay St., New York.

FOR RENT.

2 hot houses, 25x55 and 10x100, suitable for carnations and violets, heated by hot water; and 20 acres of land all cleared, 8 1/2 acres choice American grapes; fine dwelling and outbuildings, 9 miles from Portland, Ore.; fine traveled road. Rent \$350 per year in advance.

FRED'K H. LIND, FULTON, OREGON.

For Rent or Sale Greenhouse

(about 7,000 feet of glass), dwelling and stable, Evanston, Ill., two blocks from C. & N. W. station. Good established trade direct from greenhouse. Rent reasonable. Address

1127 CHURCH ST., EVANSTON, ILL.

FOR SALE.

Now offered for sale, our entire plant, greenhouse, land, stock and business; thirty years established and under one management; nearly 25,000 feet of glass; products all sold retail; three-fourths income from cut flowers and floral work; whole place rebuilt in last ten years; the largest greenhouse place in northwest New England; a fine steady trade; books open. Desire to retire from active business reason for selling. For terms, write or visit

ELLIS BROS., Keene, N. H.

The annual meeting of the Florists' Hail Association will be held at the Auditorium, Asheville, North Carolina at 2 P. M., Aug. 21, 1902.

John G. Esler,

Secretary.

NOTICE

—OF—

STOCKHOLDERS' MEETING.

CHICAGO, July 19, 1902

Stockholders of the American Florist Company:

You are hereby notified that the annual meeting of the Stockholders of the American Florist Company will be held in the Battery Park Hotel, Asheville, N. C., Wednesday, August 20, 1902, at 3 o'clock P. M., for the purpose of electing directors and officers for the ensuing term, and for the transaction of such other business as may come before the meeting.

J. C. VAUGHAN, Pres.
M. BARKER, Sec'y.

Pittsburg.

TRADE DEAD AND STOCK VERY POOR.—GLADIOLI HELP OUT IN ALL KINDS OF WORK.—VACATIONS THE PRINCIPAL THING.—NOTES.

Business has migrated. I don't know where to, but it has departed absolutely from these "diggings." The weather has been fine for outdoor flowers. Roses have gone back a point. A few Beauties are to be had, but they lack color and size. Carnations are poor. Some fine gladioli are coming in and assist wonderfully in work of every character. Florists are going for and returning from their vacations.

Many funeral designs were sent to the funeral of the late Isaac Knowles, of East Liverpool, Ohio, this week. Thos. Ulam & Company sent a magnificent vase which stood about six feet high. Gus Ludwig sent a furnace made of flowers, and E. C. Ludwig sent a large standing wreath.

L. S. Crall, of Washington, Pa., will open a fine cut flower store. "Charlie" Crall will manage it. The refrigerator will be placed at the front of the store and will take the place of the display window.

Ben. Elliott is remodeling some of his houses, also putting in a new boiler and new benches.

John Baldinger, of Ulam & Company, has gone to Atlantic City for ten days' outing.

Ben. Elliott goes to Atlantic City next week. E. L. M.

Bay City, Mich.

BOEHRINGERS HAVE A MODEL PLACE.—WELL-KEPT GROUNDS SERVE TO ATTRACT TRADE.—GOOD DAYBREAK CARNATION.

Boehringers Brothers, in their quiet way, are expanding in a manner that denotes progress and enterprise. Starting in 1893, at a time when the conditions were most unfavorable, they seem to have harnessed success and little by little built up a place, as well as a trade, that would do credit to much older establishments. Their recent addition, built this summer, consists of two houses, one 26x100, built expressly for their new light pink carnation, the improved Daybreak, and the other 12x100, for violets.

As to the improved Daybreak, its appearance at Indianapolis in February by no means showed its true merit and commercial value. One must see it here to form an adequate idea of its many excellent points. It is now in its fourth year's test and the Boehringers assure me that no carnation on their place has yielded them better returns. They are, in fact, inclined to grow it exclusively for their own use.

A stroll through the other houses showed things in splendid condition, and another thing worthy of mention is the beautifully kept grounds about their establishment. Instead of broken pots, empty boxes and rubbish one finds a velvety and faultlessly trimmed green lawn, with here and there a star worked out in cobs, a crescent in alternanthera and a bed of cannas. Such things add to the attractiveness of the place and prove the most potent advertisement that a florist, catering to local trade, could possibly invest in. NOMIS.

MANCHESTER, MASS.—The annual sweet pea show of the North Shore Horticultural Society, held at Lee's hall on July 24, was a very attractive and successful affair.

McKELLAR & WINTERSON CO.

Supply Everything Used by Florists, Nurserymen, Gardeners, Seedsmen..... Cemeteries, Parks, Etc.

HEADQUARTERS on CUT-FLOWERS

45-47-49 Wabash Ave.

Telephone Main 1120. ...CHICAGO

Wholesale Flower Markets

MILWAUKEE, Aug. 7.

Table listing flower prices in Milwaukee, Aug. 7. Includes items like Roses, Beauty, med per doz, Liberty, Bride, Bridesmaid, Meteor, Golden Gate, Perle, Carnations, Sweet peas, Adiantum, Smilax, Asparagus, and Common ferns.

PITTSBURG, Aug. 7.

Table listing flower prices in Pittsburg, Aug. 7. Includes items like Roses, Beauty, specials, extras, No. 1, No. 2, Bride, Bridesmaid, Meteor, Carnations, Asters, Lily of the valley, Harrisii lilies, Gladioli, Sweet peas, Smilax, Adiantum, and Asparagus.

CINCINNATI, Aug. 7.

Table listing flower prices in Cincinnati, Aug. 7. Includes items like Roses, Beauty, Bride, Bridesmaid, Meteor, La France, Kaiserin, Carnations, Asters, Gladioli, Lily of the valley, Asparagus, Smilax, Adiantum, and Common ferns.

ST. LOUIS, Aug. 7.

Table listing flower prices in St. Louis, Aug. 7. Includes items like Roses, Beauty, short stem, Bride, Bridesmaid, Golden Gate, Carnations, ordinary, choice, Asters, Gladioli, Tuberoses, Auratum lilies, Smilax, Asparagus Sprengeri, and Plumosus.

Advertisement for "Fumigation Methods" by Prof. Johnson. Price \$1.00. American Florist Company, 324 Dearborn Street, Chicago.

Mention the American Florist when writing to advertisers on this page.

E. H. Hunt,

WHOLESALE....

Cut Flowers

THE "OLD RELIABLE,"

76 Wabash Ave., CHICAGO.

Poehlmann Bros. Co.

Wholesale Growers of

and Dealers in Cut Flowers

All telegraph and telephone orders given prompt attention. 35-37 GREENHOUSES: Morton Grove, Ill. Randolph Street, CHICAGO, ILL.

The Cincinnati Cut Flower Co.,

437-439 Main St. WHOLESALE FLORISTS. CINCINNATI, O.

Cosignments Solicited. Special Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.

Michigan Cut Flower Exchange.

Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around. BRONZE GALAX, \$1.00 per thousand. 28 Miami Ave. DETROIT, MICH.

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Frank M. Ellis, WHOLESALE FLORIST,

1316 Pine Street, ST. LOUIS, MO.

CONSIGNMENTS SOLICITED.

C. A. KUEHN, Wholesale Florist,

1122 PINE STREET,

ST. LOUIS, MO.

A complete line of Wire Deals.

Pittsburg Cut Flower Co., Ltd

WHOLESALE FLORISTS.

Pittsburg, Pa.

Please mention the American Florist when writing.

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Business Methods

are right you can make a profit on an advertisement here.

BEAUTIES



WE ARE getting in a nice cut of Beauties from young plants, extra good for so early in the season. With other roses so poor, it is the best stock to buy. We can supply up to 24-inch stems. All other flowers in season.

Get your orders in early.

E. C. ANGLING,

THE LARGST. BEST EQUIPPED AND MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32-36 Randolph St. Long Distance Phones 1977 and 1999 Central. CHICAGO, ILL.

PRICE LIST.

BEAUTIES.		
24-inch stems,	per doz.	\$2.00
20 "	" "	1.50
16 "	" "	1.00
12 "	" "	.75
6 to 8-in.	per 100	\$4.00 5.00
		Per 100
Brides.....	\$2.00	4.00
Maids.....	2.00	4.00
Meteors.....	2.00	4.00
Gates.....	2.00	4.00
Carnations.....	1.00	1.50
Callas, per doz., 1.00	1.25	
Auratum, per doz., 1.00	1.25	
Gladiolus, per doz., 25c	to 35c	
Asters.....	.75	1.50
Valley, select.....		4.00
Asparagus plumosus, per stg.,		.50
" Sprengeri.....	2.00	4.00
Galax.....	1.25;	.15
Ferns.....per 1000,	\$1.00,	.15
Adiantum.....	.50	.75
Smilax.....per doz.,	1.00	1.25

Prices subject to change without notice

Bassett & Washburn

76 & 78 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of **Cut Flowers**
GREENHOUSES: HINSDALE, ILL.

WIETOR BROS.

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All telegraph and telephone orders given prompt attention.

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FRANK GARLAND,

Wholesale Grower of **Cut Flowers**

SPECIAL ATTENTION GIVEN TO HARDY CUT **FERNS**
55-57 WABASH AVENUE,
Telephone Central 3284 CHICAGO.

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Wholesale Grower of **Cut Flowers**

Choice American Beauties. We will take care of your orders at reasonable prices. Prompt attention.

51 Wabash Ave., CHICAGO, ILL.

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.
800,000 FEET OF GLASS.
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51 Wabash Ave., CHICAGO, ILL.

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TELEPHONE CENTRAL 3598. All telegraph and telephone orders given prompt attention.

Holton & Hunkel Co.

Wholesale Florists.
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J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations WHOLESALE GROWER of **CUT FLOWERS**
A Specialty.....

The F. R. WILLIAMS CO.

WHOLESALE FLORISTS.

Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.

Telephone Connections. CLEVELAND, OHIO.

Wholesale Flower Markets

CHICAGO, Aug. 8.

Roses, Beauty, 24-inch stems	2.00
" " 20 "	1.50
" " 15 "	1.00
" " 12 "	.75
" " 6 to 8 " " per 100	4.00@ 5.00
" Bride, Bridesmaid.....	2.00@ 4.00
" Meteor.....	2.00@ 4.00
" Perle.....	2.00@ 4.00
" Golden Gate.....	2.00@ 4.00
Carnations.....	1.00@ 2.00
Asters.....	1.00@ 1.50
Gladioli.....	2.00@ 3.00
Lily of the valley.....	4.00
Harrisii.....	6.00@10.00
Auratum, per doz., 1.00@1.25	
Callas, per doz., 1.00@1.25	
Cattleyas, per doz., 6.00	
Sweet peas.....	.15@ .25
Asparagus, per string, 30	
Adiantum.....	.50@ .75
Common ferns, per 1000, 1.00	.15
Galax leaves, per 1000, 1.25	.15
Smilax, per dozen, 1.25@1.50	

Benthey & Co.

F. F. BENTHEY, Manager,
Wholesale Commission Florists
31-35 Randolph St., CHICAGO.
Consignments solicited.....

Extra Fine VALLEY

During the summer, \$1.00 to \$5.00 per 100.

H. N. BRUNS,
1409-1411 W. Madison St., CHICAGO.
Please mention the American Florist when writing

J. B. DEAMUD,

WHOLESALE **Cut Flowers,**
51 WABASH AVENUE
Phone Central 3155.CHICAGO.

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO.
Send for weekly price list and special quotations on 1000 lots.

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CHICAGO'S RELIABLE Wholesale Growers and Shippers of **CUT FLOWERS,**
59 Wabash Ave., Chicago.
SEND FOR WEEKLY PRICE LIST.
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RICE BROTHERS

WHOLESALE FLORISTS and FLORAL SUPPLIES.

Receivers and Shippers of Fresh Cut Flowers. Special attention to shipping orders. A complete line of Florists' needs. Send for price list. Prompt returns on all consignments.
128 N. Sixth St. MINNEAPOLIS, MINN.

American Florist Advt.



Reach all the Trade.

Select VALLEY

SAMUEL S. PENNOCK,
Wholesale Florist,
1612-18 LUDLOW ST., PHILADELPHIA, PA.

During July and August will be open from 7:30 A. M. to 6:00 P. M. Saturdays, close at 1:00 P. M.

IN QUANTITY.

GEO. A. SUTHERLAND,
34 Hawley St., BOSTON.
Telephone 1270 Main.

BEST BOSTON FLOWERS. All Supplies.
An entire floor Devoted to Stock and Manufacturing. Distributing Agent for United States for the wonderful



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REED & KELLER, New York City.

A FULL STOCK OF
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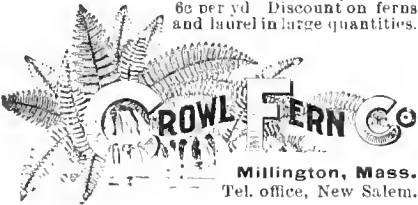
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WELCH BROS., PROPS.

9 CHAPMAN PLACE, Boston, Mass.
15 PROVINCE STREET.

FANCY OR DAGGER FERNS
FIRST QUALITY 50 CENTS PER 1000.
BRONZE OR GREEN GALAX \$1.00 PER 1000.

LAUREL FESTOONING, just the thing for summer decorations, only 4, 5 and 6c per yd. Discount on ferns and laurel in large quantities.



N. F. MCCARTHY & CO.
Best Quality
CUT FLOWERS
and Supplies.

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Open for Cut Flower Sales at 6 o'clock Every Morning

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SHIPPING LABELS FOR
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Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples....

REGD. OF THIS LEAF, POSTPAID, \$1.25.
American Florist Co.,
CHICAGO.

Wholesale Flower Markets

Boston, Aug. 6

Roses, Beauty extra.....	10 00@20.00
" " medium.....	5 00@ 8 00
" " culls.....	50@ 2 00
" Queen of Edgely.....	10 00@16 00
" Bride Bridesmaid, Meteor	5 @ 2 00
" ex ra.....	4 00@ 6 00
" Kaiserin, Carrot.....	3 00@ 6 00
Sweet peas.....	.05@ .10
Carnations.....	.25@ 1 00
Asters.....	.10@ 1 00
Gladioli.....	2.00@ 3 00
Lily of the valley.....	2.00@ 4 00
Lilies.....	3 00@ 5 00
Adiantum.....	.75@ 1 00
Asparagus.....	50 00
Smilax.....	12.50@18 00

PHILADELPHIA, Aug. 6.

Roses, Tea.....	2 00@ 4 00
" " extra.....	4 00@ 6 00
" Beauty, extra.....	15 00 20 00
" Brsts.....	8 00@12.00
" Queen of Edgely, extra.....	20 00@25.00
" Brsts.....	10 00@15.00
Carnations.....	50@ 1 50
Lily of the valley.....	3 00@ 4 00
Asparagus.....	15 00@30.00
Smilax.....	10.00@15.00

BUFFALO, Aug. 7.

Roses, Beauty.....	6.00@25.00
" " Bride, Bridesmaid, Meteor	3 00@ 6 00
Carnations.....	1 5 @ 2 00
Sweet peas.....	1 @ 35
Lily of the valley.....	3 00@ 4 00
Smilax.....	15 00@20.00
Adiantum.....	1 00@ 1 50

Give Us a Trial. We Can Please You



Roses, Carnations and all kinds of Seasonable Flowers in stock.
WM. F. KASTING, Wholesale Commission Florist,
481 Washington St., Buffalo, N. Y.
Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

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55 and 57 West 26th St.,
WHOLESALE FLORISTS,

Daily Reports. Weekly Payments.
TELEPHONES: J. A. MILLANG,
2239 Madison Sq. MANAGER.
203 1/2 Madison Sq.

GEORGE SALT FORD,
Wholesale Commission Florist,

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Fair dealing and prompt returns guaranteed.
Correspondence solicited.

ROVATZOS & MOLTZ

Buy and Sell... FLOWERS on Close Margin.

Headquarters, 56 West 26th Street,

WRITE, Opposite Cut Flower Exchange,
TELEGRAPH OR TELEPHONE. NEW YORK CITY.

HARDY Cut Dagger and Fancy Ferns.
A No. 1 quality \$1 per 1000.
Brilliant Bronze and Green Galax, \$1 per 1000, in 5,000 lots.
Laurel Festooning, 4, 5 and 6c per yard. Orders by mail, telephone or telegraph promptly attended to. Discount on large orders. L. D. telephone 2618 Main.
HENRY M. ROBINSON & CO., 32-36 Court Sq., Boston.

GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs....

\$2.00 Per Year. Sample Copies Free.
Liberal terms to florists who take subscriptions.

THE GARDENING CO. MONON BUILDING, Chicago, Ill., U.S.A.

THE AMERICAN FLORIST'S COLOR CHART

PRICE 15 CENTS POSTPAID.

AMERICAN FLORIST CO., Dearborn St., Chicago, Ill.

During July and August store will be open from 7 a. m. to 6 p. m.

LEO. NIESSEN,
N. W. corner 13th and Filbert Streets, Philadelphia.

FOR SEASONABLE FLOWERS
SEND TO
JOHN I. RAYNOR, WHOLESALE COMMISSION FLORIST.

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 Madison Square 49 W. 28th St., NEW YORK.

YOUNG & NUGENT
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Are supplying the most superb stock of SUMMER FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.
SEND FOR QUOTATIONS.

Walter F. Sheridan,
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Telephone Nos. 2239 and 2034 Madison Square.



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 Finest Salesroom in the Trade. Inspection invited.
 All business, selling or shipping, strictly commission.

WHOLESALE WILLIAM GHORMLEY, COMMISSION
 RECEIVER AND SHIPPER OF FRESH CUT FLOWERS. DAILY STOCK OF ALL THE CHOICEST VARIETIES FROM BEST GROWERS WHO SHIP TO NEW YORK.

ORCHIDS, ROSES, CARNATIONS, VALLEY.

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 Special American Beauties,
 Surpassing Carnations,
 Lily of the Valley, Orchids,
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 51 West 28th St., NEW YORK.
 Tel. 1905 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN
 NEW YORK CITY FOR
Violets and Carnations
 GROWERS and BUYERS make a note of this. It
 will be to your advantage.
WM. H. GUNTHER.
 30 West 29th St., New York.
 Telephone 551 Madison Square.

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 Open from 6 a. m. to 5. p. m.
 Cut Flower Exchange, 55-57 W. 26th St.
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JOHN J. PERKINS,
 COMMISSION FLORIST,
 Solicits Consignments or Shipping
 Orders. Satisfaction given in both.
 Write for Terms. 115 West 30th St., New York.

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 WHOLESALE FLORISTS.
 65 and 67 W. 26th St.
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 OPEN 6:00 A. M.
 An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.
Traendly & Schenck
 NEW YORK CITY,
 38 W. 28th Street, Cut Flower Exchange.
 New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

NEW YORK, AUG. 6.

Roses, Beauty, select.....	15.00@25.00
" " medium.....	5.00@12.00
" " culls.....	.50 @ 2.00
" Bride, Bridesmaid.....	.50@ 5.00
" Liberty, Meteor.....	1.00@ 5.00
" Testout, Kaiserin, Carnot.....	1.00@ 6.00
Carnations.....	.25@ 1.00
Lily of the valley.....	1.00 @ 2.00
Lilies.....	3.00 @ 5.00
Sweet peas, per 100 bunches, 10c @ 2.00	
Cattleyas.....	.25 @ 40.00
Smilax.....	4.00 @ 8.00
Adiantum.....	.50
Asparagus.....	35.00 @ 50.00
Sprengeri, doz. bun. 2.00 @ 3.00	

RELIABLE AT ALL SEASONS.
Best Flowers.
 REASONABLE PRICES.

J. K. ALLEN
 Telephone 167 Madison Square.
 OPEN AT 6 A. M. DAILY.
 106 W. 28th St., NEW YORK.

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 Receivers and Shippers of
FRESH FLOWERS,
 111 West 30th St., NEW YORK.
 Telephone 157 Madison Square.

Julius Lang
 53 West 30th Street, NEW YORK.
 REPRESENTS THE BEST GROWERS OF
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ALEX. J. GUTTMAN,
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 A full supply daily of the choicest
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FLOWERS.
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 BEST FLOWERS SHIPPED AT LOWEST
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...GEO. M. KELLOGG...
 Largest Grower of... Cut Flowers
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 Give us an order and we will please you.
 Our Greenhouses at PLEASANT HILL, MO.
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 LONG DISTANCE PHONE AT EITHER PLACE.

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 47 WEST 28TH ST.,

Tel. 421
 Madison Square,NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

ONION set pulling is on in earnest among the Chicago growers.

THE calla bulb crop in California is turning out short as usual, some growers reporting seventy-five per cent only.

THE Dutch bulb crop is reported as ripening very late this season and shipments are expected to arrive ten days later than usual.

TWELVE thousand packages of vegetable seeds will be distributed to each member of the House and Senate, beginning soon after September 1.

BOSTON, Mass.—M. B. Faxon has moved from 31 State street to more commodious quarters at 34 Merchant's row, the center of the seed trade district.

THE advent of the Rocky Ford muskmelon marks a distinct era in the history of this valuable esculent, to the extent that fruit of uniform high quality may now be had in every important city of the country.

VISITED CHICAGO: Edwin M. Haven, of the Haven Seed Company, South Haven, Mich.; Fred. S. Plant, of the Plant Seed Company, St. Louis, Mo.; C. H. Reed, of the Amzi Godden Company, Birmingham, Ala.

FRED. S. PLANT, of the Plant Seed Company, St. Louis, Mo., who has been spending a three week's vacation in northern Michigan, states that his firm contemplates taking more commodious quarters for its retail store.

SEEDSMEN will find much to interest them in the extract on "Congressional Seed and Tree Distribution," page 34 of this issue, from Secretary Wilson's report in the latest issue of the "Yearbook of the Department of Agriculture," dated May 9, 1902.

CHAS. P. BRASLAN writes from San Jose, California, July 31: "This section was visited a few days ago by a severe wind storm and the onion seed that was ripe at the time was to a great extent blown from the heads. This will mean a loss of about twenty per cent of the crop. This condition not only exists with one grower on this coast but with everyone. It will be safe to say that the crop will be one-fifth less than it was two weeks ago."

The May Souvenir.

The accompanying illustration is from a photograph of the oxidized silver fern dish presented to Mr. and Mrs. L. L. May at the close of the recent seedsmen's convention. The inscription on the gift is as follows: "A souvenir of a June-day's trip, from their friends of the American Seed Trade Association. St. Paul, June 25, 1902. To Mr. and Mrs. L. L. May."

German Seed Crops.

The following is an extract of a report from the Magdeburg (Germany) region on the crop prospects: "Mangel wurzel, stock carrot, radishes and peas promise very well; beans, lettuce, kohlrabi and Savoy cabbage only medium; rutabaga, white cabbage and onions are rather poor and the red cabbage very poor."



SILVER FERN DISH PRESENTED TO MR. AND MRS. L. L. MAY.

The weather in May was very unfavorable for pansies, so that they were still in full bloom at the end of July, and the continuous cloudy weather has been very unfavorable to the forming of seeds. The aster stand is excellent. Ten-week stocks are very backward in consequence of the cool weather in May and June, and the best weather is required if a good crop is to be harvested.

BAY SHORE, N. V.—The Suffolk County Horticultural Association will hold a big flower show at the Bay Shore Opera House next November.

Admires High Standard.

ED. AM. FLORIST:—Enclosed is \$1 for subscription for the current year. I admire very much the pure tone and high business standard of the AMERICAN FLORIST. H. R. LEE.
Ocean Park, Cal.

OTTUMWA, IA.—C. Kranz has absorbed the business conducted by Miss Lotta Baker.

LIVERPOOL, ENG.—Arthur Newell, of Kansas City, Mo., sails to-day (August 6) for home.

Cut Gladiolus Spikes

of the HIGHEST QUALITY, in lots of from 100 to 100,000. Pink, scarlet, crimson, white, light, yellow, blue, lavender and heliotrope; in fact, almost every shade imaginable.

Write for prices and particulars, stating your requirements.

ARTHUR COWEE, "Meadowvale Farm," Long Dist. 'Phone, BERLIN, N. Y.

U. S. Representative and Grower of GROFF'S HYBRIDS.

Watch this space for bulb advertisement later.

FREESIAS

Now Ready. $\frac{3}{8}$ inch and up in diameter at \$2.00 per 1000 delivered anywhere in the U. S.

Calla Bulbs

1 to $1\frac{1}{2}$ inches in diameter, at \$3.25 per 1000, delivered anywhere in the United States. For large quantities, write for prices. Orders from unknown correspondents must be accompanied with cash. Remember these prices are delivered.

GERMAIN SEED AND PLANT COMPANY,
LOS ANGELES, CALIFORNIA.

LILIAM
Harrisii

Our stock has arrived in excellent condition, firm plump Bulbs. 5 to 7, per 100, \$5.00; per 1000, \$18.00; 7 to 9, per 100, \$11.00; per 1000, \$105.00. For other Bulbs see our price list just sent out. We can fill your orders satisfactorily.

Walter Mott Seed & Bulb Co.
JAMESTOWN, N. Y.

CINERARIA GIANT PRIZE, pkt., 50c.
CALCEOLARIA GRANDIFLORA, pkt., 50c.
PRIMULA CHINESE FRINGED, pkt., 50c.
CYCLAMEN Giganteum, 100 s. 75c; 1000, \$6.
PANSY SUPERB MIXTURE, oz., \$5 00.

W. C. BECKERT, Allegheny, Pa.

ESTABLISHED 1802

THORBURN'S
SEEDS

FREESIAS, CALLAS, LILIUM
HARRISII, ETC., ETC.

If our trade bulb list has not been received, we shall be glad to send it on application.

J.M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

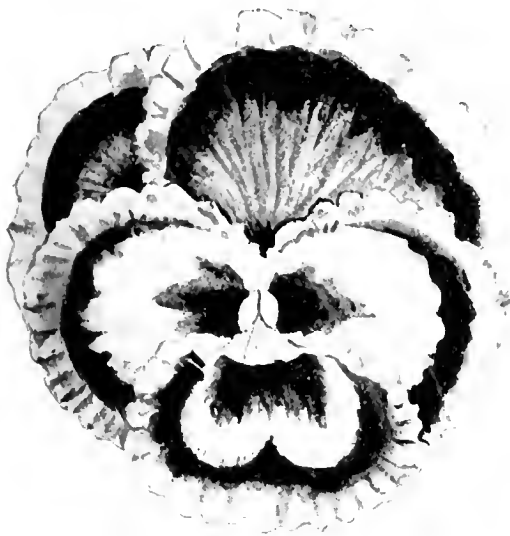
Please mention the American Florist when writing.

BURPEE'S
SEEDS
PHILADELPHIA.

Wholesale Price List for Florists
and Market Gardeners.

Please mention the American Florist when writing.

Importation of New Crop Pansy Seed JUST RECEIVED



Type of Hunt's Unrivaled Pansy.

HUNT'S UNRIVALLED MIXTURE—Universally acknowledged the best and most reliable Pansy Mixture for sale anywhere. We do not trust to one grower for the Seed, but purchase on contract from several European Pansy Specialists their choicest strains and newest novelties. We then form the mixture ourselves, so we know absolutely that the correct proportion of each sort is used. Every variety is tested upon receipt and strains are discarded which do not show 87 1/2 to 98 % germination. The fact that the seed comes from so many sources is ample assurance against off varieties. The Odier, Cassier, Bugnot and Trimardeau strains, together with the striped and veined German Show Pansies, Masterpiece and all the late creations, forms a variegated and splendid mixture which defies competition. Trade pkt., 25c; 1/2 oz., \$1.00; 1 oz., \$8.00; lb., \$125.00.

OTHER FINE MIXTURES.

TRIMARDEAU—A mixture of all the Giant sorts, including the rich reds, yellows and blues. We have spared nothing to make this the highest quality giant mixture in America. Trade pkt., 20c; 1/2 oz., 75c; oz., \$3.50.

LARGE FLOWERING MIXED—A fine mixture of the large-flowering sorts, including all the latest French Pansies. Trade pkt., 25c; 1/2 oz., 75c; oz., \$1.00.

CHOICE MIXED—Where a cheaper grade will do this mixture is recommended. Fine for bedding. Trade pkt., 15c; 1/2 oz., 10c; oz., \$2.00.

PRIMULA—Hunt's Florists' Mixture "THE GRAND." Fine assortment of colors, including the better selling shades and all the Giant sorts of Chinese Primula, English grown seed. The seeds forming this mixture are grown for us by English Specialists. The quality is uniform and always the best to be had anywhere at any price. Trade packet, 50c; 1000 seeds, \$1.50.

CALCEOLARIA—Hunt's Hybrid Grandiflora. The best Florists' mixture on the market, containing all the tigered, mottled, variegated and spotted types, beautifully marked and self colored strains, representing a vast and marvelous diversity of colors. Trade pkt., \$1.50, Calceolaria Special, \$1.00, Fine mixed, 50c.

CINERARIA—Hunt's "SPECIAL" mixture. An assortment of unquestioned merit containing all the finest English strains exclusively. 1000 seeds, 75c; 2 trade pkts., (2,000 seeds), \$1.25. Finest German Mixture, 50c trade pkt.

E. H. HUNT, 78 WABASH AVENUE, CHICAGO, ILL.

LILIUM HARRISII Packed by our Own Growers

N. B.—Our Grower tells us to meet the Market on SURPLUS PRICES.

We have a Full Stock of the Regular Grades

5 to 7-inch, 400 in case. 7 to 9 inch, 200 in case; 9 to 11-inch, 100 in case.

Now on dock and ready for shipping. Prices on quantity quoted on application. Customers wanting late dug 8u bs can still be supplied. We have a few thousand all sizes which we will dig and pack on special orders in thousand lots at quoted rates. Delivery in 2 weeks.

Arriving: Romans, Freesias, Gallas.

VAUGHAN'S SEED STORE, 14 Barclay Street, NEW YORK. 84-86 Randolph St., CHICAGO.

Surplus Stock CHEAP.

Per 100
 500 Golden Gate Roses, 3-in., strong.....\$5.00
 600 Bride Roses, 3-inch, strong. 5.00
 700 Bridesmaid Roses, 3-inch, strong..... 5.00
 700 Baby Primroses, 2 1/4-inch, strong.... 2.50
 400 Latania Borbonica, 3-inch pots, good for growing on, will clean them out at 4.00
 2,000 Kentias 1/4 Belmoreana, 3-in. pots 10.00
 Will make a very low price on the entire lot.
Walker & McLean, Youngstown, O.

SMILAX

2-inch, strong, 75c per 100.
SPRENGER, 2-inch, strong, \$1.50 per 100.
 2 1/4-inch, strong, \$2.00 per 100.
M. J. COVENTRY, Fort Scott, Kan.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

500 Poinsettia

2-YEAR, ONE SHOOT,
 \$10.00 per 100.

JOHN BREITMEYER'S SONS, Detroit, Mich.

ROSES FOR WINTER FLOWERING

GRAFTED
 IVORY, American Rose Co.'s Stock, \$9.00 per 100.
 BRIDES, BEAUTIFS, CONTIERS,
 MME. HOSTE, SAFRANO, GOLDEN GATES.
 3-inch pots, \$6.00 per 100.
 IVORY, American Rose Co.'s Stock, \$18.00 per 100.
 GOLDEN GATE, very fine, \$12.00 per 100.
 BRIDESMAID, 3 1-2-inch pots, \$12.00 per 100.
J. L. DILLON, Bloomsburg, Pa.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSEYRYMEN.

THAS. A. IJGENFERTZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

THE Association of American Cemetery Superintendents meets at Boston, August 19 to 22.

WILLIAMSBURG, IA.—Hugh Harrington, of H. Harrington & Co., nurserymen, was married to a Miss Sheetz, at Davenport, July 26.

THE sixteenth annual convention of the Wisconsin State Cranberry Growers' Association will be held in the vicinity of Cranmoor and Elm Lake R. R. Stations August 19. W. H. Fitch, of Cranmoor, is secretary of the association.

NURSEYRYMEN will find much to interest them in the extract on "Congressional Seed and Tree Distribution," page 34 of this issue, from Secretary Wilson's report in the latest issue of the "Yearbook of the Department of Agriculture," dated May 9, 1902.

THE Red river fruit belt in northern Texas is proving to grow apples very successfully. The varieties most grown, named in order of popularity, are Ben Davis, Jonathan, Red June, Early Harvest, Black Twig, Winesap and Gano, with many other varieties on trial.

PATRICK BARRY, of the firm of Ellwanger & Barry, who for years was president of the Western New York Horticultural Society, provided a memorial for horticulture in the form of a legacy to the society, the interest upon the bequest to be used among other things for the encouragement of originators of new and valuable fruits. By the action of the society the sum of \$50 was to be put into a gold medal, to be known as the Barry medal, and this was to be given to the originator of a deserving new fruit. At the last annual meeting of the society two of these medals were awarded, one to Charles G. Hooker for a red currant, and the other to John Charlton, for a grape. These medals have now been issued. On one side is a faithful likeness of the remarkable man whose name the medal bears, and on the reverse side is an inscription showing the nature of the award.

Study of Commercial Trees.

One of the most important and interesting undertakings by the Bureau of Forestry of the Department of Agriculture during the present field season is a careful study of a number of the most valuable American commercial trees. This will include among others a study of the Adirondack balsam, in Franklin county, New York. Incident to the work of the bureau in connection with the Chippewa Indian reservation in Minnesota is a careful study of the red pine in progress.

A study of the rate of growth in the sugar pine in California, which was begun last season, is now being continued. Last year's work began in the northern part of the state and in southern Oregon, and this season the examination will be continued southward with the idea of covering the full commercial range of this important timber tree.

The southern hardwoods will be studied in Kentucky, North Carolina and West Virginia. This work will be mainly devoted to the consideration of the

oaks and the yellow poplar, the idea being to study them in their commercial ranges, along with other trees which occur in mixture with them.

Kansas City Parks.

"Uncle" John Thorpe, superintendent of the flower show, and Arnold Ringier, a seedsman of Chicago, were taken for a drive over the city's park and boulevard system yesterday afternoon by Samuel Murray, says a Kansas City newspaper of August 4, and both admitted last night that they had seen sights such as they did not suppose could be seen here.

"You people don't know what you have in Kansas City," said Mr. Ringier. "I was never so surprised in my life as I was when I saw the beauty of Kansas City's parks and drives. Why, Chicago cannot hold a candle to some of them."

Mr. Thorpe expressed great surprise over the tree system he saw.

"Your trees are finer than we have in Chicago by a good deal."

"And when John Thorpe says that," added Mr. Ringier, "It is pretty nearly so."

Lowell, Mass.

FORMER CITIZENS OF LOWELL RETURN FOR A WEEK BUT SPEND LITTLE MONEY WITH FLORISTS.—VARIOUS NOTES.

This has been "Old Home" week, which brought a good many thousands of people to the city but they did not spend much money with the florists. One day over 5,000 firemen were in parade, all wearing some sort of a bouquet, but they were from somebody's garden. However, much money was left in the city and the florists will get their share of it eventually. Funeral work has been a little more plentiful but with the abundant supply of stock it is easily attended to and scarcely makes any impression on the surplus. The supply of asters at present is tremendous and \$2.50 per thousand buys good stock.

Harvey B. Green returned last week from a business tour and has now taken his wife and family down in Maine for a few week's rest.

George W. Patten starts for Salt Lake City next Wednesday to attend the Elks' convention. He will return via San Francisco.

Mr. and Mrs. Alex. Wallace, of New York, were the guests of M. A. Patten, in Tewksbury last week.

Patten had charge of the decorations at the Fernald-Pearson nuptials in Boston last Tuesday.

A. M.

Strawberry Plants.

FROM POTS. Well established young plants of Clyde and Wadfield (both immense croppers), for planting now and in August. Warranted to produce a full crop of the finest berries next spring. Price 50c per doz.; \$3.00 per 100. P. S.—100 planted now will give an ordinary family all they can use.

F. A. BALLER, BLOOMINGTON, ILL.

B. W. DIRKEN,

Oudenbosch, Holland.

ORNAMENTAL AND FOREST TREES
A SPECIALTY.

Conifers, Evergreens, Hollies, Etc.

✱ ✱ ✱ Prices on Application.

Park Architects and Dealers

will find whatever they want in the

Holland Nurseries, DeBilt near Utrecht HOLLAND.

SPECIALTIES ARE: Conifers, Evergreens, Hardy Shrubs, Lilacs, Ornamental Trees, Fruit Trees in different forms, Azaleas, Rhododendron Ponticum and Hybridum.

Please send list of your wants and write for general catalogue. We will make you special offers. Write to

GROENEWEGEN & ZOON,
De Bilt, near Utrecht, Holland.

Miss Louise

Faber

The Longest Stemmed
and Most Fragrant
Carnation in Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink, similar to a well colored Bridesmaid rose and average 2½ inches. Continuous bloomer when once started and only never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for Jan. delivery.

FICK & FABER, SAN MATEO, CAL.

CARNATION Plants.

If you want some first-class delid-growa plants, send for quotations to

Michael Winandy, Corner Devon Ave.
and N. Robey St.,
CHICAGO.

CARNATIONS

Strong and absolutely healthy: Flora Hill, W. Cloud, Mary Wood, white; Daybreak, Scott, Joost, Triumph, pink; America, red; Mrs. Bratt, variegated; Gomez and Maceo, crimson; \$5.00 per 100; \$40.00 per 1000. **RUBY KING**, our seedling in its fifth year; the most brilliant cerise and most productive of all; \$8 per 100; \$50 per 1000. All ready to plant now. **LAMPRECHT BROS., ASHLAND, O.**

GALAX

Bronze or green, 75c per 1000, in 2 0) lots or over; single 100, \$1.00. Fern, Fancy, \$2.50 per 1000; Fero, Dagger, \$1.50 per 1000. Leucothoe Sprays, bronze and green, assorted sizes, \$1 per 100. Green sheet moss, \$2.50 per bbl. bag.

L. J. KRESHOVER,

110-112 W. 27th Street, NEW YORK CITY.
Telephone call, 597 Madison Square.
HARRY A. BUNYARD, Mgr.

LAUREL HILL Nurseries,

F. BRUNTON
Manager.

Importers and growers of **Choice Hardy Perennials, Native Trees, Shrubs, Specimen Evergreens.** We grow large quantities of **Iris, Paeonias, Tritomas, Phlox, Delphiniums;** stock is perfectly hardy, true to name. Send for Special Catalogue of New Hardy Alpine Iris, now in the press. **STOCKBRIDGE, MASS., U. S. A.**

ELECTROS...



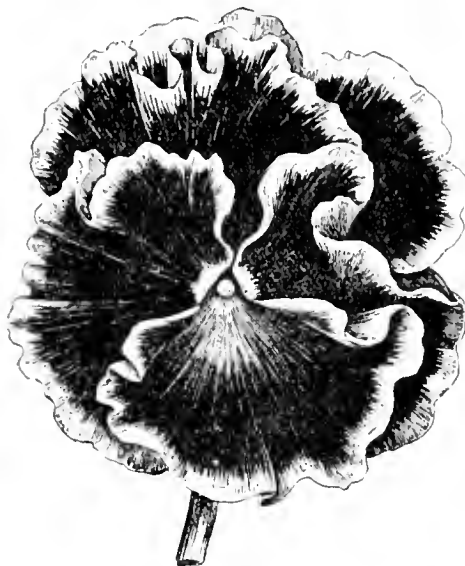
For Catalogue Purposes.

WE have a large assortment of strictly high-class halfpots of which we can supply electro suitable for catalogue illustration. If you need anything in this way, state your requirements and we will submit proofs of the illustrations in stock.

Price for cash only 15 cents per square inch.

THE AMERICAN FLORIST CO.,
.....324 Dearborn St., CHICAGO.

Our Pansies, Cannas and Roses received gold medals at the Omaha Exposition in 1898 and the Pan-American Exposition in 1901.



MASTERPIECE.

VAUGHAN'S "INTERNATIONAL"

Received the only reward for Mixed Pansies at the World's Fair. It is to-day better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence, as all the florists who saw or used it can tell you. Price per oz., \$10.00; 1/2 oz., \$5.00; 1/4 oz., \$1.50; trade pkt., 50c.

VAUGHAN'S "GIANT MIXTURE."

This mixture is specially made by us from all the separate colors of Giant Trimardeau, the Giant Bugnot and Cassier and several special strains which cannot be had any other way. If your trade demands large flowers there is no better mixture. Price, 1/4 lb., \$14; oz., \$4; 1/2 oz., 60c; td. pkt., 25c.

VAUGHAN'S PREMIUM MIXTURE.

Embraces all the varieties of the Fancy German Sorts. We have sold this mixture for the past 16 years and it has given general satisfaction. Per pkt., 25c; 1/2 oz., 80c; 1/4 oz., \$3.00; oz., \$5.50.

IMPROVED GERMAN MIXTURE.

This is a mixture of three strains from different German growers and is made up mostly of separate colors, with a sufficiently large percentage of white and yellow. Per large pkt., 25c; 1/2 oz., 40c; 1/4 oz., 60c; oz., \$2.00.

BELLIS OR DOUBLE DAISY.

VAUGHAN'S	Trade Pkt.	Oz.
Mammoth Mixture.....	1-16 oz.	15c \$25
Mammoth White.....	1-16 oz.	14c .25
Mammoth Pink.....	.....	.25
Double Extra Choice, mixed, 1/8 oz.	4 c	.15 \$2.50
Fine mixed.....	1/8 oz.	25c .10 1.50
Albus Plenus, double white, 1/8 oz.	3 c	.15 2.00
"Longfellow," dark pink.....	1/8 oz.	35c .20 2.50
"Snowball," double white.....	1/8 oz.	35c .20 2.10

M GNONETTE, TRUE MACHET.

The seed we offer produces dwarf, vigorous plants of pyramidal growth, with very thick, stout flower stalks. Finest in every way for florists' use and for pots. We have tested this with several of the fancy named strains and always with results favorable to our seed. Trade pkt., 10c; 1/2 oz., 25c; oz., 50c; 2 oz., 75c; 1/4 lb., \$1.25.

CINERARIA VAUGHAN'S COLUMBIAN MIXTURE. A mixture of the best English and German strains, unsurpassed. Pkt. (1000 seeds) 50c; 3 pkts. \$1.25.

CINERARIA HYBRIDA, LARGE FLOWERING, white, blood-red or crimson, double white or best double mixed, each, per trade pkt., 50c.

CALLCEOLARIA HYBRIDA, choicest mixture, pkt. 5c. 10 PER CENT discount on flower seed orders amounting to \$2 and over for Cash with order.

"Vaughan's International" Primrose Mixture.

Unquestionably the best mixture of Chinese Primroses. It contains the largest variety of the best selling colors. Flowers large, beautifully fringed, borne in large clusters well above the rich green leaves. P. L. (250 seeds) 50c; 5 pkts. (1250 seeds) \$1.00.

CHINESE PRIMULA, Chiswick Red; Alba Magnifica, white; Blue, Pink, Striped. Each, per pkt. of 250 seeds, 50c; 1000 seeds, \$1.75.

DOUBLE CHINESE PRIMULA, white, pink, red or mixed, per pkt. 50c.

VAUGHAN'S SEED STORE, 14 Barclay Street, New York. 84-86 Randolph St., Chicago.

Chrysanthemum...

TIMOTHY EATON, well-rooted cuttings, \$2.25 per 100. Sample 2; for 50 cts., express prepaid; Plants, \$3.00 per 100, express not prepaid. All healthy and strong.

Geraniums...

1,500 S. A. Nutt, 500 La Favorite, from 2 1/2 and 2-inch pots, mostly 2 1/2-inch, large per cent in bloom or bud, ready shift, \$1.50 per 100, \$14.00 per 1000. Unrooted cuttings of S. A. Nutt, 70 cents per 100; \$6.00 per 1000. Cash with order.

DES MOINES PLANT CO.,

38th St., Des Moines, Iowa.
Please mention the American Florist when writing.

Chicago Carnation Co., Joliet, Illinois

Please mention the American Florist when writing.

All The Best CARNATIONS

Orders booked now for fall delivery. SEND FOR PRICES. Rotted cuttings and young plants all out. **GEO. HANCOCK & SON,** GRAND HAVEN, MICH.

There Are Buyers

For all kinds of good stock advertised in.....

THE AMERICAN FLORIST

A Good Adv.

in the Special Number of the

AMERICAN FLORIST

Is the

Key to Business

Issued August 16. Send Advertisement Now.

Orders booked now—delivery in September—for my Nephrolepis Fern

"ANNA FOSTER"

Small plants, \$25.00 per 100; larger plants, prices on application.

L. H. FOSTER, 45 King St., Dorchester, Mass.

Latania Borbonica

For growing on, fine plants, 3-inch pots, \$6.00 a hundred.

J. B. HEISS, The Exotic Nurseries, DAYTON, OHIO.

Please mention the American Florist when writing.

'Mums

We can still furnish the following varieties from 2 1/2-inch pots. Thrifty young plants, well established, ready for immediate shipment. Our selection of standard varieties, early, midseason and late, \$20.00 per 100; \$12.00 per 500. Reduction from list on large orders.

WHITE.	Per 100	WHITE.	Per 100
T. Eaton.....	\$1.00	Geo. S. Kalb.....	\$2.50
Ivory.....	3.00	M. Monarch.....	2.50
Willowbrook.....	3.00	Mrs J. Jones.....	3.00
Nellie Pickett.....	4.00	Queen.....	3.00
Polly Rose.....	3.00	Mrs. H. Weeks.....	3.00
Nivens.....	3.00	Mlle. Lucie Faure.....	3.00
Mayflower.....	3.00		
YELLOW.	Per 100	PINK.	Per 100
Col. D. Appleton.....	\$1.00	Orizaba.....	\$5.00
Philadelphia.....	5.00	Mary Hill.....	4.00
Robt. Haliday.....	3.00	Lady Playfair.....	2.50
Golden Wedding.....	4.00	Xeco.....	3.00
R. H. Pearson.....	6.00	Maud Dean.....	4.00
Yellow Mayflower.....	3.00	Yanariva.....	6.00
Mrs. E. D. Smith.....	4.00	V.-Moral.....	4.00
October Sunshine.....	3.00	Adele.....	3.00
Mrs J. Whilldie.....	2.50	Lady Harriett.....	4.00
Liberty.....	4.00	J. K. Shaw.....	3.00
Eclipse.....	4.00	Glory of Pacific.....	3.00
Modesto.....	3.00	Red and Bronze.	
E. Dail-douze.....	3.00	G. W. Childs.....	4.00
H. A. Parr.....	2.50	Intensity.....	4.00
Major Bonaffon.....	3.00	John Pickett.....	6.00
Nargoya.....	3.00	Lady Aoglesly.....	4.00

H. WEBER & SONS, Oakland, Md.

Please mention the American Florist when writing.



SMILAX

Fine, large, strong plants, ready to run, \$1.50 per 100; \$13.00 per 1000. They will please you. THAT CASH, PLEASE.

C. HUMFELD, CLAY CENTER, KAN.

Please mention the American Florist when writing.

SMILAX 2-inch, \$1.00 per 100.

ROSES Brides and Maids, 2-inch, \$2.00 per 100; \$18.00 per 1000.

McALLISTER & COMPANY, Batavia, Ill.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; R. B. Kirt, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

Bowling Contest at Asheville.

DETROIT TROPHY.

Year.	Place of meeting.	Won by.	Score.
1899	Detroit.	Philadelphia.	926
1900	New York.	Buffalo.	1021
1901	Buffalo.	New York.	883

Conditions of Detroit trophy, greatest number of pins in any one game. A cup to be won twice before awarded finally. Winning club each year to have name engraved on cup, with number of pins and place of contest. If after four years the cup has not been won twice, it is to be awarded to the club having made the highest number of pins during that time, from among clubs having won the cup.

LORD A. BIRNHAM CUP.

To team making highest total in three games. To be won twice before being finally awarded.

Year.	Place of meeting.	Won by.	Score.
1900	New York.	Buffalo.	2775
1901	Buffalo.	Philadelphia.	2590

HITCHINGS CUP.

To team making highest score in third game, to be won twice before finally awarded.

Year.	Place of meeting.	Won by.	Score.
1900	New York.	Buffalo.	1021
1901	Buffalo.	New York.	883

The H. Bayersdorfer & Co. Gold Medal, valued at \$20, for highest aggregate individual score in three games.

Halliday Brothers Gold Medal, value \$15, for second highest aggregate individual score in three games.

A prize for third highest aggregate individual score in three games.

The William J. Stewart prize, value \$15 for greatest number of strikes in three games.

A prize for greatest number of spares in three games.

INDIVIDUAL CONTESTS.

The Watson trophy, gold badge, for highest total in three games. Given by G. & C. Watson, Philadelphia, and to be known as the "Old Man's Race." Open to all, 55 years of age or over.

The Berkowitz medal, for highest total in three games. Given by Paul Berkowitz of Bayersdorfer & Co., Philadelphia, to be known as the "Young Man's Race." Open to all, 25 years of age or under.

A. B. CARLEIDGE,
ROBERT HALLIDAY,
Committee.

Philadelphia Gardeners' Cricket League.

Wootton met Ravenhill at Ravenhill on Saturday, August 2, and succeeded in winning by almost the same score as from Wolruh. Captain Long can well establish the claim for the championship for this year, and the veteran Hammond will stand as a good example for aspirants for cricketing honors. The score follows:

WOOTTON.

S. Hammond lb w b Boyington	23
W. Burnett c McCleary b Robertson	0
G. Cummings c McCleary b J. McCleary, Jr.	13
J. Dennis b J. McCleary, Jr.	0
W. Walters b J. McCleary, Jr.	6
T. Long b J. McCleary, Jr.	1
G. Holdsworth c Reed b Boyington	0
W. Buchanan stumped McCleary, Jr.	1
E. Thompson not out	10
T. Cummings c McCleary b J. McCleary, Jr.	2
N. Scott b J. McCleary, Jr.	1
Extras	6
Total	66

RAVENHILL.

P. Boyington run out	0
D. Atkins c Scott b Holdsworth	0
J. McCleary b Hammond	2
W. Robertson b Hammond	2
W. McCleary b Holdsworth	0
J. McCleary, Jr. b Holdsworth	0
F. Brooks c and b Hammond	7
W. Reed c Dennis b Holdsworth	6
M. Neely b Hammond	3
H. Bowman lb w b Hammond	0
D. Bletcher not out	0
Extras	4
Total	24

F. C.

Shooting Contest at Asheville.

INDIVIDUAL CONTESTS.

First event, 15 targets, 1st, 2d and 3d prizes (high guns).

Second event, 25 targets, 1st, 2d and 3d prizes (high guns).

The team to compete against that of Asheville will be selected according to the records made in the above two events.

TEAM MATCH.

Asheville vs. S. A. F. 25 targets per man.

A memento of the win will be presented to each member of the winning team. The match will take place Thursday afternoon, August 21, and we will have the use of a very nice grounds, regularly fitted up for this sport, equipped with magazine and set of expert traps, and we can assure every lover of the gun a pleasant afternoon's sport. We would urge that all of the craft who shoot, will not only attend the coming convention, but will bring along their guns and shells and join in this outing.

ROBERT J. HALLIDAY, (Com.)
A. B. CARLEIDGE, (Com.)

At Philadelphia.

Another exciting contest between the "ins" and the "outs" of the Asheville team took place on the club alleys last Thursday evening. It was the second of a series of three or more games to try out the team and get them used to working together. The first match, a week ago, resulted in a defeat for the Ashevilleers, as they are called. This time, however, the honors rested with the "regulars," they defeating the "scrubs" by fifty-one pins in the three games. Messrs. Harris and Westcott were not in the game for the "scrubs;" neither was Anderson for the other side, and as the first two were high for their side in the other argument, had they played there might have been a difference. While the scores were not quite as good as in the first game, they are comforting and in a measure satisfactory. The scores follow:

ASHEVILLEERS.	1st	2d	3d	TOT.
Moss	169	194	176	539
Starkey	135	141	149	425
Anderson	115	115	—	230
Watts	148	159	190	497
Robertson	159	159	141	459
Craig	148	129	175	452
Kirt	176	224	157	557
Totals	1065	1006	1064	3065

SCRUBS.	1st	2d	3d	TOT.
Polites	136	166	170	472
Gibson	152	132	135	419
Harris	148	148	—	296
Kuestner	195	166	163	524
Adelberger	110	144	156	410
Etmerman	150	166	171	487
Connor	179	194	151	524
Totals	1092	968	1094	3054

The afternoon matinees and the evening performances take place with more or

less regularity and these, in addition to the contests that rise to the dignity of matches, keep the pin boys busy. The following is a list of the averages of all games bowled for the month of July:

Mooney	177	Harris	160
Dunham	175	Bonsall	159
Moss	167	Adelberger	157
Kirt	165	Fletcher	155
Kuestner	164	Anderson	149
Connor	163	Craig	148
Westcott	161	Gibson	145
Etmerman	160	Watson	143
Polites	160	Robertson	140

K.

PROVIDENCE, R. I.—The store of Johnston Bros., on Westminster street, was deluged with water from the automatic sprinklers in the building overhead on last Thursday evening, a small blaze having started in one of the rooms.

TOLEDO, O.—Anton F. Schramm has sold his interest in the firm of Bernard Schramm and bought out the retail business of Moore W. Mahaffey. Mr. Mahaffey is looking for a site to go into the wholesale growing of cut flowers.

WASHINGTON, D. C.—Elmer Keek is preparing to remove his range of houses to a larger tract of land outside the town and will build a downtown store and show house.

FIELD-GROWN CARNATIONS

Fine, Strong, Healthy Plants.

	Per 100	Per 1000
PROSPERITY	\$5.00	\$40.00
NORWAY	5.00	40.00
GENEVIEVE LORD	5.00	40.00

PETER REINBERG,

51 Wabash Ave., Chicago.

Please mention the American Florist when writing.

FIELD-GROWN CARNATION Plants.

	Per 100	Per 1000		Per 100	Per 1000
4,000 DAYBREAK	\$4.00	\$35.00	4,000 G. H. Crane	\$5.00	\$45.00
4,000 CHAPMAN	4.00	35.00	1,000 MACEO	5.00	45.00
1,000 McGOWAN	4.00	35.00	1,000 EL DORADO	5.00	45.00
4,000 WHITE CLOUD	5.00	45.00	2,000 IRENE	6.00	50.00
4,000 FLORA HILL	5.00	45.00	5,000 Guard'n Angel	6.00	50.00

Plants in good health. Order now and have them reserved for you in the field.

KENNICOTT BROS. CO.

WHOLESALE COMMISSION FLORISTS, 42-44 Randolph St., CHICAGO.

Please mention the American Florist when writing.

THE PIERSON FERN Nephrolepis Piersoni.

The Most Valuable Novelty Introduced
In Many Years. Awarded

GOLD MEDAL

Massachusetts Horticultural Society, March, 1902. A rare distinction, having been awarded only a very few times in the history of the society. Also Gold Medal by New York Horticultural Society, May, 1902, for the best horticultural novelty. The highest honors that can be bestowed on any horticultural novelty in America. These very high awards testify to the sterling merit of **Nephrolepis Piersoni**.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

Nephrolepis Piersoni is as easy to grow and propagate as the well-known Boston Fern, of which it is a sport and which it will assuredly supplant in popular favor.

THIS WILL BE A MONEY MAKER FOR YOU!

See our exhibit of this at the S. A. F. Convention, Asheville. Will be introduced to the trade in spring, 1903. Demand is sure to be enormous. Place your order at once in order to secure early delivery, as orders will be filled strictly in rotation.

Prices: \$9.00 per doz.; 50 plants at 60c each; 100 plants at 50c each; 500 plants at 45c each; 1,000 plants at 40c each.

IVORY, or White Golden Gate. TRUE STOCK

Strong 4-inch pot plants, \$6.50 per 100; \$60.00 per 1000.

Strong 2 1-4-inch pot plants, \$3.00 per 100; \$25.00 per 1000.

W.A. Hammond
107 E. Broad St., Richmond, Va

REVISED LIST OF ROSES on HAND

July 22, 1902, at **GEO. A. KUHLS,**
Pekin, Ill. Write him.

	2x2 1/2	2 1/4 x 3	3x3
METEORS.....	650	275	
BRIDES.....	2400	875	
MAIDS.....	850	150	475
KAISERINS.....		100	
PERLES.....		700	
BEAUTIES.....	850	1200	
LIBERTY.....	925		
GOLDEN GATE.....	60	425	75
LA FRANCE.....	150		
BELLE SIEBRECHT.....	181	200	
SOUPERT.....	50		

FLORISTS' ROSES

FOR WINTER FORCING.

All our 2 1/2-inch stock has been shifted from 2-inch pots. Our rose plants are all grown for the trade (we do not grow cut flowers), and such plants we claim are well worth more money than ordinary surplus stock:

	2 1/2-in.	3 1/2-in.
	Per 100	Per 100
AMERICAN BEAUTY, 3-in., \$8.	\$5.00	\$12.00
BRIDESMAID.....	3.50	8.00
GOLDEN GATE.....	3.50	8.00
KAISERIN.....	5.00	12.00
METEOR.....	3.50	8.00
PERLE.....	4.00	10.00
BRIDE.....	3.50	8.00
IVORY, White Golden Gate.....	12.50	21.00
MRS. OLIVER AMES, 4-inch, per doz.,	\$10.00	
BEDDING ROSES in large assortment, strong		
2 1/2-inch, per 100,	\$3.00.	

Boston Ferns BEST STOCK.

2 1/2-in., per 100, \$5.00; 5-in., each 50c; 7-in., \$1.00.
Asparagus Plumosus, 2-inch pots, per 100, \$4.00.
Asparagus Sprengeri, 2-inch pots, per 100, \$3.00.
Smilax, per 100, \$2.50.
Chrysanthemum, large assortment, \$3 per 100.
Fern Balls to leaf, 7 to 9 inches, per doz., \$5.00.
Ferns for Fern dishes, best kinds, per 100, \$4.00.
Hibiscus Peachblow, 2 1/4-inch pots, per 100, \$3.00.
Lemon American Wonder, 2 1/4-inch pots, per 100, \$5.

Vaughan's Seed Store,

GREENHOUSES:
WESTERN SPRINGS, ILL.

84 & 86 Randolph Street, CHICAGO.
14 Barclay Street, NEW YORK.

WE STILL HAVE A LOT OF EXTRA LARGE STRONG BEAUTY PLANTS,

2 1-2 and 3-inch Pots, CHEAP.

JOHN BURTON, Chestnut Hill, Phila.

FIELD-GROWN Carnation Plants

of the following varieties:

ETHEL CROCKER, G. H. CRANE,
FLORA HILL, FRANCES JOOST.

Send for samples and prices; ready for planting.

JOHN WOLF, Savannah, Ga.

Please mention the American Florist when writing.

Rose Plants.

BRIDE, 3 inch, \$4.00 per 100; \$35.00 per 1000.
 BRIDESMAIDS, 3-in., \$4 per 100; \$35.00 per 1000.
 Repotted three times. Elegant stock. \$50 at 1000 rate. Unknown parties cash with order.

BRANT & NOE, FOREST GLEN, CHICAGO.

Please mention the American Florist when writing.

Omaha, Neb.

TRADESPEOPLE HAVE THE BEST OUTING ON RECORD.—GREAT BOWLING CONTEST.—PERSONAL NOTES.

The outing of the Nebraska and Iowa Florists' Society was a grand success. The attendance was large and it was the merriest party we have had together since the S. A. F. convention here four years ago. The ladies enjoyed themselves on the shores of beautiful Lake Courtland, while the men had a fine bowling contest for a prize donated by J. F. Wilcox for the best two out of three games. Mr. Wilcox himself was the captain of the winning team but it was a great struggle and not decided until the last ball had been rolled, for the victors were only one pin to the good. At eight o'clock the band played a march and some fifty jolly florists and their ladies promenaded to the well-laden refreshment table for supper. We hope to see many more such outings. A photograph of the group at the picnic is reproduced on page 38.

Mr. Nelson, who has been with Hess & Swoboda, has been appointed florist at the State University of Nebraska.

J. J. Hess was at Tecumseh to attend the summer meeting of the Nebraska State Horticultural Society.

Arnold Kingier, of Chicago, is spending a few days here on business. GRIPPE.

Minneapolis.

TRADE DROPS OFF AND WHOLESALERS CARRY THE STOCK.—SUMMER FLOWERS IN DECIDED SURPLUS.—PERSONAL NOTES.

Roses and carnations are in fair supply, but of gladioli, asters and sweet peas it is an abundance, with a very quiet market. The retailers carry a very small stock now, so it keeps the wholesalers with a surplus. Shipping trade has dropped off considerably and will continue dull until about the end of September.

They say E. Nagel, known by all as "Grandpa," was nearly laid up from exertions in the fat men's race at the recent picnic.

A. Swanson does not report a very brisk business but his display windows never lose their beauty.

A good many of the trade are taking a day off now and then on fishing excursions.

"Ted" Nagel is again back in the store and reports a fair trade.

C. F. Rice has returned from a trip in Iowa. C. F. R.

KANSAS CITY, Mo.—John Thorpe is here in conference with F. J. Taggart, arranging the premium list and other details for the big November flower show.

Burbank's Shasta Daisy

3-inch, \$15.00 per 100.

Burbank's Shasta Daisy seed, 1902, 25c per 100; \$2.00 per 1,000; \$18.00 per 5,000; \$30.00 per 10,000.

Asparagus Plu. Nanus, extra fine, 2½-inch, \$5.00 per 100.

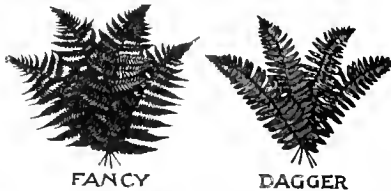
Prices given on Carnation Plants.

Asparagus Sprengeri Seed, \$1.50 per 1000.

Calla Bulbs, first size, \$4.00 per 100.

EXPRESS PREPAID.

CALIFORNIA CARNATION CO. LOOMIS, CAL.



Hardy Cut Ferns

First Quality, 60c per 1000.

ALSO DEALER IN

CHRISTMAS TREES, Baled Spruce for Cemetery Use, Bouquet Green, Sphagnum Moss, Etc.

L. B. BRAGUE, Hinsdale, Mass.

Mr. Brague will have an exhibit at Asheville Convention.

B. & A. SPECIALTIES

ENGLISH MANETTI.....\$12.00 per 1000
FRENCH MANETTI.....\$10.00 per 1000

ASK FOR FALL CATALOGUE NOW READY.

BOBBINK & ATKINS, Rutherford, N. J.

Please mention the American Florist when writing.

Asparagus P. Nanus

2-inch pots, \$4.00 per 100. 25 at 100 rates. Carriage prepaid. Cash.

Pansy Seed

1902 GIANT OF CALIFORNIA, \$4.00 per ounce, ¼ ounce at same rate.

Loomis Floral Co. LOOMIS, CAL.

ASPARAGUS PLUMOSUS

Extra fine 2-inch stock at \$3.50 per 100; \$30.00 per 1000.

Asparagus Tenuissimus

From 3-inch pots, \$5.00 per 100.

BOSTON FERNS,

25 8-inch, to close out at \$1.00 each.

CASH WITH ORDER.

THE LIVINGSTON SEED CO.

Co'umbus, Ohio.

5,000 SMILAX, extra to close.

500 HIBISCUS, in 2½ to 4-inch.

5,000 SPRENGERI, 2 to 6-inch.

5,000 PLUMOSUS, 2 to 5-inch.

BOSTON FERNS, 4 to 10-inch.

Let us book your order.

GEO. A. KUHL, Pekin, Ill.

PAEONIAS FOR FALL...

10 distinct, best kinds, \$10.00 per 100.

Poets Narcissus, dbl. & sgl., home grown, \$5 a 1000.

Clematis, large flowering, \$2.50 per doz.; \$16 per 100.

SMILAX A few hundred fine heavy plants, one year, \$3 per 100.

F. A. BALLER, Bloomington, Ill.

BEGONIA GLOIRE DE LORRAINE,

2¼-inch pots, \$15.00 per 100.

Write for prices on large lots. Stock guaranteed absolutely free from disease.

THOMAS ROLAND, Nahant, Mass.

FUMIGATION METHODS

By PROF. W. G. JOHNSON

Formerly State Entomologist of Maryland

A Practical Treatise and timely work on cheap and effective means of destroying insect pests and other vermin in various places. This work is the outcome of practical tests made by the author, together with the experiences of others, and is one of the most important books published this season and is much needed at this time. It will be of particular interest to

FRUIT GROWERS AND NURSERYMEN owing to the widespread prevalence of the notorious San Jose scale. Hydrocyanic acid gas is the only practical remedy for the destruction of this pest and is being used more extensively than ever before by nurserymen and fruit growers. The perfection of the apparatus for fumigating young orchard trees is outlined in this work. The methods can be easily applied in orchards and nurseries for many dangerous pests at very small cost. The writer is considered the best authority on this subject in this country and has left nothing undone to make this the most complete work of the kind ever published.

GARDENERS AND FLORISTS have found that vegetables and flowers cannot be grown under glass without frequent fumigation for the destruction of insect pests. Hydrocyanic acid gas has solved this problem. The methods of procedure are fully described and every detail is given for generating and applying the gas.

MILLERS AND GRAIN DEALERS have been looking forward to the publication of this work, as hydrocyanic acid gas has been found one of the most important materials for clearing mills and warehouses of insects. The subject of carbon bisulphide for fumigating mills and elevators containing grain in storage is also thoroughly considered. To this trade the work is indispensable and transportation companies have found it of great value for the fumigation of cars, ships and other inclosures infested with vermin.

FARMERS OF THE COUNTRY have here fully described a simple, easy remedy for gophers, prairie dogs, squirrels and other animals in the ground, and rats and mice in any inclosure.

COLLEGE AND STATION WORKERS will find it an up-to-date reference work on this subject. It is complete in every respect and is the only work of the kind ever published. It is written in a popular non-technical style, profusely illustrated, handsomely bound, covering 250 pages, price, post-paid, \$1.00.

AMERICAN FLORIST CO. 324 Dearborn St. CHICAGO, ILL.

Orchids!



Arrived in fine condition: CATTLEYA TRIANE. The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

Lager & Hurrell, SUMMIT, N. J. Orchid Growers and Importers.

ROBT. CRAIG & SON, Roses, Palms and Novelties in Decorative Plants. Market and 49th Sts., Philadelphia, Pa.

Dreer's Offer of Cibotium Schiedei



ARAUCARIA EXCELSA GLAUCA.

5-inch pots, 8 to 10 inches high, 2 tiers.....	\$.75 each
6-inch pots, 12 inches high, 2 to 3 tiers.....	1.00 each
6-inch pots, 15 inches high, 3 tiers.....	1.25 each
7-inch pots, 18 inches high, 4 tiers.....	1.50 each

If you have never tried this beautiful Fern in fine decorations or as a house plant, you should become acquainted with it at once. Its points of merit are so many that you cannot afford to be without it. It possesses a graceful, delicate habit unlike any other plant and while its appearance is that of being very soft, it is really as hardy as any of the commercial Palms. We have a fine stock of it this season and offer heavy plants as follows:

- 5-inch pots, \$1.00 each; \$10.00 per dozen.
- 7-inch pots, 1.50 each; 18.00 per dozen.
- 9-inch pots, 3.00 each; 36.00 per dozen.

The 7 and 9-inch pots are beautifully finished plants, suitable for decorative work.

Special Offer of Araucarias.

We have in stock about twelve thousand Araucarias, on which we are in a position to offer special values. It will pay you to procure your next winter's supply now and not only gain the benefit of the summer's growth, but also cheap transportation rates, as these plants can be safely shipped by fast freight during the summer months.

ARAUCARIA EXCELSA.

5-inch pots, 8 to 10 inches high, 3 tiers.....	\$.50 each
6-inch pots, 10 to 15 inches high, 3 to 4 tiers.....	.75 each
6-inch pots, 16 inches high, 4 tiers.....	1.00 each
6-inch pots, 20 inches high, 4 to 5 tiers.....	1.25 each
7-inch pots, 21 inches high, 4 to 5 tiers.....	1.50 each

ARAUCARIA ROBUSTA COMPACTA.

6-inch pots, 10 inches high, 2 to 3 tiers.....	\$1.25 each
6-inch pots, 12 inches high, 3 tiers.....	1.50 each

HENRY A. DREER, 714 CHESTNUT STREET, PHILADELPHIA, PA.

CHRYSANTHEMUMS.

We have a quantity of thrifty young plants, in 2 1/4-inch pots, which will make nice medium sized flowers if planted now. Our collection includes the following:

MRS. J. JONES,	GLORY OF PACIFIC,
MRS. SMITH,	MARION HENDERSON
GEO. S. KALB,	MRS. S. T. MURDOCK,
COL. D. APPLETON,	MODESTO,
NAGOYA,	MRS. E. D. SMITH,
XENO,	SUPERBA,

NELLIE POCKETT and many other standard varieties. Your selection, \$2.50 per 100. Give a list of substitutes when ordering.

NATHAN SMITH & SON, Adrian, Mich.

GERANIUMS

The following strictly high grade varieties, true to name all from 2 1/2-inch pots: JEAN VIAUD, (the pink variety) \$3.00 per 100; OUTCHESS OF ORLEANS, (the variegated wonder) \$3.00 per 100. S. A. Nutt, Beauté Poitevine, Francis Perkins, E. G. Hill, Mme. Bruant Mme. Jaulin, Athlete, L. P. Morton, Thos. Meehan, Kelway and others, \$2.00 per 100; \$18.00 per 1000.

SMILAX.

We are headquarters for smilax and can supply any quantity. Fine plants from 2 1/4-inch pots, ready for planting \$1.25 per 100; \$10.00 per 1000.

The W. T. Buckley Plant Co., Springfield, Ill.

Carnations, Geraniums Cannas, Etc.

Prices quoted upon application.

The Cottage Gardens, Queens, L. I.

HERRON....

Carnation Grower,

OLEAN, N. Y.

Please mention the American Florist when writing.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.

PALMS.

KENTIA BELMOREANA, 2 1/2-inch pots, \$8.00 per 100.
" " 3 inch pots, \$15.00 per 100.
" " 24 to 28 in., fine bushy plants, \$1.25 each; \$15.00 per doz.
" " 30 to 32 in., perfect condition, \$1.75 each; \$20.00 per doz.
ARECA LUTESCENS, 3-inch pots, (3 plants in pot), \$12.00 per 100.
" " 6-inch pots, (3 plants in pot), 24 inches high, \$70.00 per 100.

FERNS from 2 1/4-inch pots.

PTERIS TREMULA, a large stock of this in excellent shape, short stocky plants ready for sh. ft. Always in good demand from any size pots, \$2.50 per 100.
PTERIS Adiantoides, Pteris Cretica Albo-Lineata, Pteris Alexandra, Pteris Ouvrardi, Pteris Serrulata, each, \$2.50 per 100.
ONYCHIUM JAPONICUM, \$3.00 per 100.
ADIANTUM PUBESCENS, \$3.00 per 100.
Good assortment of FERNS, our selection of varieties, \$20.00 per 1000.

ASPARAGUS.

PLUMOSUS, 2 1/2-inch pots, \$4.00 per 100; 3-inch pots, \$6.00 per 100.
SPRENGERI, 2-inch pots, \$2.50 per 100; 2 1/2-inch pots, \$3.00 per 100.
DRACENA GODSEFFIANA, 3-inch pots, \$1.50 per dozen.
MARANTA MASSANGIANA, 2 1/2-inch pots, \$3.00 per 100.

BARGAINS in Chrysanthemums and Fuchsias, named varieties, at \$2.50 per 100.

Ailamanda Williamsii.....	\$4.00 per 100
Acalypha Sanderu.....	3.00 per 100
Russelia Elegantissima.....	3.00 per 100
Vinca Variegata.....	4.00 per 100
All good 2 1/4-inch plants.	

The Conard & Jones Co, West Grove, Pa.

Please mention the American Florist when writing.

'Dryden'

Geranium, the finest of all bedders, 3 1/4-in. pots, \$8.00 per 100; 2 1/2-in., \$4.00 per 100. Cash please.

HENRY EICHHOLZ, Waynesboro, Pa.

Please mention the American Florist when writing.

Storekeepers

Extra fine blooming CYCLAMEN PLANTS for a change in your window at \$18.00 per 100; \$2.50 per doz. Cash or C. O. D.

Asparagus Plumosus, 3-inch pots, at \$7.00 per 100.

C. WINYERICH, DEFIANCE, OHIO.

Please mention the American Florist when writing.

100,000 ASTER PLANTS

Simple and Queen of the Market. New lot ready now, grown from the finest seed, at \$1.00 per 500; \$1.50 per 1000; 10,000 for \$12.50.

J. C. Schmidt, Bristol, Pa.

Please mention the American Florist when writing.

Columbus, O.

GROWERS MAKING GOOD PROGRESS WITH THE SUMMER WORK.—GOOD CARNATIONS.—NEW GERANIUMS AND CANNAS.—VARIOUS NOTES OF LOCAL INTEREST.

J. R. Hellenthal is about at an end with his building for this season. This place, with its reconstructed houses and fine potting shed, is a model. The large potting shed is so constructed as to allow a horse and wagon to back in out of the cold or wet. This is an advantage, it is plain to be seen, every florist should have. Mr. Hellenthal has a seedling geranium, something on the Leviathan type, which has been tried on his place for the past three years. It seems to be very promising. He also has some seedling cannas, of which one variety, at least, will hold its own with any good scarlet.

Asters are coming in more than plentifully and it is a question if the demand will keep pace with the supply. Gladioli are also fine and plentiful this year. The Livingston Seed Company is cutting a fine lot of these at the gardens west of the city, where the display of French cannas is also fine and will be quite a treat for those who will be in Columbus the latter part of this month to attend the state fair. It will surely pay them to take in these trial grounds.

Carnations are now being housed by some of the growers, the plants being of good size and clean. Crocker stood the hot weather under glass this summer better than any other similar variety. The old plants of this variety, where still left growing, are producing good quality of bloom up to the present date.

Among roses Golden Gate will be grown more extensively than heretofore, it having proved itself a free bloomer at all times. Ivory will be given a trial in this locality and if found as free as Golden Gate will no doubt replace the Bride for summer bloom to a great extent.

The Franklin Park Floral Company is making a change in the ventilating system by putting in all new machines of the Evans make. The summer cut of roses and carnations on this place broke all previous records. CARL.

HARTFORD, CONN.—Another daughter, the second, was presented to J. F. Huss by Mrs. Huss on the morning of July 28. Genial "J. F. H." is as happy as a lark and is doing as well as could be expected.

GERANIUMS 20,000 Ready Now.

A special drive on 2-inch pot plants, all correctly labeled at \$1.50 per 100. Less than 25 of a variety will be \$2.50 per 100. Sample mailed for 10c in stamps.

SMILAX. 2-inch pot plants at \$1.50 per hundred.

BONE MEAL. FLORISTS BRAND at \$3.50 per bag of 200 pounds. A trial order solicited.

ALBERT M. HERR, Lancaster, Pa.

SPECIALTIES

ROSES, from 3-inch pots, **In Best**
CARNATIONS, for all delivery,
CHRYSANTHEMUMS, **Varieties**
SMILAX, VIOLETS.

Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.

Please mention the American Florist when writing.

Carnations! Carnations!

The Best Field-Grown Stock. Every One a Choice Selected Plant.

	Per 100	1000		Per 100	1000
Mrs. Thos. W. Lawson	\$6.00	\$50.00	Bon Homme Richard	\$5.00	\$45.00
Flora Hill	5.00	45.00	America	4.00	35.00
White Cloud	5.00	45.00	Jubilee	4.00	35.00
Geo H. Crane	5.00	45.00	Mrs. F. Joost	4.00	35.00
Glacier	5.00	45.00	Daybreak	4.00	35.00
Morning Glory	5.00	45.00	Gen. Gomez	4.00	35.00

Order Quickly. Plants reserved for later shipment if desired. Terms Cash.

H. W. BUCKBEE, ROCKFORD SEED FARMS, FOREST CITY GREENHOUSES, ROCKFORD, ILL.

Carnation Plants
50,000 Field-Grown

Including large quantities of the following varieties: Flora Hill, White Cloud, G. H. Crane, Daybreak, Chapman, Eldorado, Maceo, Irene, Guardian Angel, Genevieve Lord and Peru. If you are going to buy, write and get prices before placing your orders. Can make you price we know is right. Stock in fine condition and plants fair size.

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

ASHEVILLE, NORTH CAROLINA.

'The Land of the Sky.'

The eighteenth annual meeting American Florists will be held at Asheville, August 19th to 22d, 1902.

A rate of **one fare for the round trip** has been made via Queen & Crescent Route and Southern Railway. Special train, composed of Pullman sleepers, will leave Cincinnati, Monday, August 18th, 2:00 p. m., via Queen & Crescent Route, and run through to Asheville via Southern Railway, arriving at Asheville next morning 7:00 o'clock.

Members will meet at Cincinnati and all go through together from there.

For sleeping car reservations and full particulars regarding rates, write

J. S. McCULLOUGH, W. A. BECKLER.
N. W. P. A., N. P. A., Queen & Southern Ry. Crescent Route.
225 DEARBORN ST. 113 ADAMS ST.
CHICAGO, ILL.

IF IN NEED OF

Brides, Bridesmaids and Golden Gates

Strong 3 1/2-inch pot plants, drop me a line. No better plants offered anywhere. Price \$6 per 100.

S. S. SKIDELSKY,
708 NORTH 16TH ST., PHILADELPHIA.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Society of American Florists National Convention,

AUGUST 19th to 22nd, 1902, ASHEVILLE, NORTH CAROLINA.

For this convention the "Big Four Route" (C. C. C. & St. L. Ry.) will sell tickets August 16, 17 and 18, good for return leaving Asheville not later than August 25, at **one fare for the round trip** from all "Big Four" stations. (\$20.00 round trip from Chicago.)

Florists' Special train will leave Chicago 8:30 p. m. Sunday, August 17th, running via "Big Four" to Cincinnati, thence via the Queen & Crescent and Southern Railways. Monday forenoon will be spent in Cincinnati, sight-seeing, etc., leaving there at 2 p. m. on the Florists' Special. Every florist should make a big effort to attend this convention, the first to be held in the beautiful Southland.

For berths in sleepers from Chicago or Cincinnati, and further information call on, or address E. F. WINTERSON, President Chicago Florists' Club, 45 Wabash Avenue, or J. C. TUCKER, Gen'l. Nor. Agt. "Big Four", 234 S. Clark Street, Chicago.

ROSES to Plant

Well-grown stock, clean and vigorous.

AMERICAN BEAUTIES, 3-inch,	Per 100	Per 1000
special reduced price to close out	\$6.00	\$55.00
PERLES, very nice, 3 inch	5.00	50.00
GOLDEN GATE, 3-inch	5.00	50.00
BRIDES, 3-inch	5.00	45.00
BRIDES, strong, 2 1/2 x 3 inch	3.00	

Special on 3,000 fine 3-inch METEORS, \$30.00 per 1000; \$3.50 per 100. All choice strong plants. 1000 rate given on 250.

W. H. GULLETT & SONS, Lincoln, Ill.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

FROM ALL PARTS.

AM. FLORIST CO.—It is remarkable the amount of orders my 2 inch ad. brought me from the Special Number of your paper. Orders came pouring in from all parts of the United States. The American Florist is O.K.
W. W. COLES.

IT IS THE BEST.

EDITOR AM. FLORIST—Enclosed find \$1 for which please renew my subscription to the American Florist. It is the best paper going. The last Special Number alone was worth the year's subscription.

JOHN RODGERS.

IT PAYS BEST.

ED AM. FLORIST.—My advertisement in your paper is paying better than in any other paper and better than it ever did before. J. N. PRITCHARD, Elk Park, N. C.

MR. ADVERTISER:

You know the excellence of the Special Issues which are a feature of this journal. You know that it covers the trade, that its readers await these Special Numbers with keen anticipation, that they are highly prized, kept for months, read and re-read. That's what makes their particular advertising value.

The Asheville Number, issued at the time of the convention of the S. A. F. at Asheville, N. C., will appear August 16. It will be in every way equal to the best of our splendid Special Issues. That's enough said. Advertising copy to be in time must reach us by noon on Thursday, August 14. It's to everyone's advantage if you are early.

Very truly yours,

AMERICAN FLORIST CO.

324 Dearborn St., Chicago, Ill.

REACHES GOOD PEOPLE.

AM. FLORIST CO.—Your paper certainly does bring orders from good, reliable firms.
F. R. WILLIAMS CO., Cleveland.

BROUGHT MANY REPLIES.

AM. FLORIST CO.—My advertisement in your paper brought me so many replies that I think I will sell all the plants I care to spare; another insertion would swamp me with orders.
R. SCHIFFMANN.

Please Mail Your Adv. Now.

Cleveland.

LITTLE BUSINESS SAVE FUNERAL WORK.—SLIGHT DEMAND FOR GARDEN FLOWERS.—GROWERS BUSY BUILDING.—SUCCESSFUL SEASON ENCOURAGES MANY ADDITIONS.

Business and weather conditions are about the same as last week; nothing doing except funeral work. The roses have picked up a little and quality is a little better than at last report. Carnations are very scarce, scarcely any coming into market. Branching asters from indoors promise to be fine. Some superb gladioli are to be seen in the store windows. Large quantities of rudbeckias and hardy phloxes are in evidence, with no special demand for them. The growers are busy benching carnations. They are beginning to realize the value of early planting.

Greenhouse building is in full swing now. Lars Andersen, for many years connected with the J. M. Gasser Company, has branched out for himself and is erecting a plant of about 10,000 feet of glass. He will deviate from the usual course of producing flowers and grow lettuce instead, for which there is a growing demand in this city.

The Andrews Brothers, on Detroit street, have decided to dip a little deeper into flower raising and are erecting two houses 20x100 for carnations. Their success this past season with one house has been very encouraging.

Robt. Kegg, the genial superintendent of parks, is erecting on his West Park place four houses 22x100 for cut flowers; the houses are to be strictly up to date in every respect.

Lincoln Brown is very well pleased with his new position on Lake avenue. Mrs. Brown, I am glad to state, has entirely recovered from her recent illness.

Chas. Schmitt has returned from a trip to Philadelphia, New York and the seashore, looking as ruddy as a mountaineer.

Mrs. Isaac Kennedy and family have gone to Philadelphia for a visit with friends.

Mr. Paterson, of Montgomery, Ala., was a visitor this week. Echo.

DES MOINES, IA.—W. L. Morris has begun work on the big greenhouse at his new location on West Thirtieth street. A boiler house and work shed will be built this season and next year the old range will be re-erected here and several more new houses added.

SMILAX

2,000, strong, 2 1/2-inch, \$15.00 per 1000; \$2.00 per 100.

MURRAY, the Florist, PEORIA, ILL.

VIOLETS from both 2 1/2 and 3-inch pots, in splendid condition to plant out: Imperial M. Louise and Swaley White, 2-inch, \$2.75 per 100; \$25.00 per 1000. Campbell, \$2.50 per 100; \$22.50 per 1000. 3-inch, \$4.00 per 100; \$35.00 per 1000.

CARNATIONS from the field, write for prices. SMILAX, 2-inch, \$1.50 per 100. 3-inch, \$3.00 per 100; \$25.00 per 1000.

CRABB & HUNTER, GRAND RAPIDS, MICH.

BEGONIA GLOIRE DE LORRAINE,
Begonia Light Pink Lorraine,

For July and Later Delivery,
\$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near
Cheatnut Hill, Pa.

Please mention the American Florist when writing.



Cycas Revoluta

From 25c to \$3.00 each. We have an immense stock to offer and can assure good values.

The GEO. WITTBOLD CO.

1657 Buckingham Pl., Chicago.

A FEW GOOD THINGS YOU WANT.

- KENTIA Belmoreana and Forsteriana, also Areca Lutescens, 3 plants in a pot, extra clean and well grown plants, 2 1/2, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
- REX BEGONIA, 2 and 3-inch, \$4 and \$6 per 100.
- BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.
- FERN, Cordata Compacta, 2 and 3-inch, \$4 and \$10 per 100.
- ASPARACUS Plumosus, 2-inch, \$5; 3-inch, \$8. Sprenger, 2 inch \$3; 3 inch, \$5, per 100.
- DRACAENA INDIVISA, 3, 4 and 5-inch, \$6, \$10, \$25 per 100.
- ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100.
- SMILAX, Vinca Var., Campbell Violets, 2 inch, \$2.00 per 100.
- FIELD-GROWN CARNATIONS Scott, McGowan, Portia, P-achblow, Ethel Crocker, Genevieve Lord, \$1.00 per 100; Prosperity, \$5.00 per 100

Cash or C. O. D.

GEO. M. EMMANS, NEWTON, N. J.

Please mention the American Florist when writing.

WITTBOLDII FERNS

2 1/2-in., \$5.00; 3-in., \$8 00; 5-in., \$15.00.

Bench plants all sold.

25 FINE RUBBERS

3 feet to 4 feet, \$1.00 each or the lot for \$20.

CASH PLEASE.

A. J. BALDWIN, NEWARK, O.

Please mention the American Florist when writing.

Primroses

- CHINESE, single mixed, fine..... Per 100 \$2.00
- FORBESI, "Baby"..... 2.00
- OBCONICA Grandiflora, ready Aug. 10 2 00
- Asparagus PLUMOSUS, 2-in. pot... 3 00
- Asparagus SPRENGERI, Aug. 20... 2 00
- CARNATIONS, 500 each F. Hill, E. Crocker and 50 G. Angel, field-grown 4 00
- PANSY SEED, ready in Aug., oz., \$4.00.

CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

'MUMS! ROSES! SPECIAL!

Col. Appleton, 2 1/2-inch, \$20.00 per 1000; rooted cutting, \$15.00 per 100. Maj. Bonaparte, 2 1/2-in., \$18.00 per 1000; rooted cuttings, \$11.00 per 100. Our selection in proper proportion of color, 2 1/2-inch, \$20 per 1000; rooted cuttings, \$12.00 per 1000. 100,000 2 1/2 and 3-inch Maids, Brides, Gates and Meteors. 25,000 2 1/2-inch Stevia and rooted cuttings, \$20 and \$12 per 1000.

Printed price list furnished on application. Pochmann Bros. Co., Morton Grove and Chicago, Ill.

We have the largest stock of

ARAUCARIA EXCELSA

in the country. May importation, raised from top cuttings only.

- 5-inch pots, 3 tiers, 10 inches and above..... \$.50
- 5 1/2-inch pots, 12 to 14 inches..... .60 to .75
- 6-inch pots, 15 to 18 inches..... .75 to 1.00
- Specimen..... 1.25
- KENTIA FORSTERIANA and BELMOREANA, 25 to 30 inches high..... .75
- FIGUS ELASTICA, 18 to 24 inches high, from \$4.00 to \$5.00 per dozen.
- BOSTON FERNS, 6-inch pots..... .40

Cash with order please. To save express mention if pots to be taken off.

GODFREY ASCHMANN,

WHOLESALE GROWER AND IMPORTER OF POT PLANTS,

1012 Ontario Street, PHILADELPHIA, PA. Please mention the American Florist when writing.

CYCLAMEN

Persicum Splendens Giganteum.

Finest strain in the world, in four true colors, well-grown plants, from 2 1/2-in. pots, \$1.00 per 100; \$35.00 per 1000. Extra selected, \$5.00 per 100; \$40.00 per 1000. From 3-inch pots, \$7.00 per 100; \$65.00 per 1000.

PAUL MADER, East Stroudsburg, Pa.

Please mention the American Florist when writing.

Watch This Space

FOR FUTURE BARGAINS.

JOHN BROD,

349 West North Avenue, CHICAGO, ILL.

Greenhouses, Niles Center, Ill.

Please mention the American Florist when writing.

The Art ...of Floral Arrangement

The only special newspaper in the world for floral arrangement.

200 ILLUSTRATIONS ANNUALLY.

Specimen number free.

Subscription, \$2.40 yearly.

BINDEKUNST-VERLAG
J. OLBERTZ, ERFURT, GERMAN Y

Please mention the American Florist when writing.

A Good Advertisement

IN THE
Special Number

OF THE
AMERICAN FLORIST

IS THE

Key to Business.

ISSUED AUGUST 16.
Send Advertisement Now.

THOSE RED POTS

"STANDARDS"
FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'FY.

HARRY BALSLEY, DETROIT, MICH.,
Red. 490 Howard St.

Sigmund Geller

Importer and Manufacturer of

FLORISTS' SUPPLIES

Complete Stock—New Goods—New Illustrated Catalogue Now Ready. Send for it.

103 W. 28th St., near 6th Ave., NEW YORK.

WE NOW OFFER

"Chemicals"

for making LIQUID COMPOST.
Dry powders all soluble in water. Composts cost less than 1/20 per gal. Correspondence invited.

EASTERN CHEMICAL COMPANY,
620 Atlantic Ave., Boston.



Invalid Appliance Co.,

MANUFACTURERS OF

COLUMBIA PLANT TUBS

(PATENTED)

"The kind that set 'em full apart."
If your seedman doesn't handle them,
order of us direct.

FACTORY AND OFFICE:
150-160 VEDDER ST., CHICAGO.
TELEPHONE NORTH 953.

Adjustable Plant Stands

THE BEST ON THE MARKET.

1 Stand \$1.50; 3 Stands \$4.00; 6 Stands \$7.50; 12 Stands \$14.00.

YOU NEED THEM IN YOUR BUSINESS.

C. B. WHITNALL, MILWAUKEE, WIS.

HEADQUARTERS FOR HORTICULTURAL SUPPLIES

Of Every Description.

When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

DUNNE & CO., 64 W. 30th St., New York.
Telephone Call. 1700 Madison Square.

THE Regan Printing House NURSERY SEED FLORISTS' CATALOGUES

37-39 Plymouth Place,
CHICAGO

AWARDED THE ONLY FIRST CLASS CERTIFICATE OF MERIT BY THE SOCIETY OF AMERICAN FLORISTS AT BOSTON MASS AUG. 21ST 1890 FOR STANDARD FLOWER POTS.



WHILLDIN POTTERY CO.

JERSEY CITY

LONG ISLAND CITY

PHILADELPHIA

Traveling Representative,

U. CUTLER RYERSON,

108 Third Ave., NEWARK, N. J.



"BLACK DEATH" (POWDER) TO EAT THEREOF IS TO DIE.

BUG KILLER and FERTILIZER. Three years of unprecedented success wherever introduced all over the United States has proved "BLACK DEATH" to be a cheap and absolute annihilator of all insects, bugs or beetles that prey on vegetation, foliage and flowers. See what Peter Reinberg said to this paper, Feb. 8. Other strong endorsements sent on receipt of postal card.

Western Sales Agency, 235 Franklin St., Chicago.
HANDLED BY SEEDSMEN. S. D. STRYKER, Agent.

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can give you money.....

W. H. ERNEST,

22th and M Streets, WASHINGTON, D. C.



GEO. KELLER & SON,

MANUFACTURERS OF

FLOWER POTS.

Before buying write for prices.
361-363 Herndon Street,
near Wrightwood Ave.,
CHICAGO, ILL.

FLOWER POTS

ALL KINDS.

STANDARD POTS A SPECIALTY

List and SAMPLES FREE.

SWANN'S POTTERY MFG CO.,
P. O. Box 78. MINNEAPOLIS, MINN.

WRITE

A. F. KOHR, 1521-23 N. LAVITT ST.,
CHICAGO, ILL.,

FOR PRICES OF

Standard Pots

which for strength and porosity combined are the best on the market.

ALL Nurserymen, Seedsmen and Florists wishing to do business with Europe should send for

"Horticultural Advertiser."

This is the British Trade Paper, being read weekly by all the Horticultural traders; it is also taken by over 1000 of the best continental houses. Annual subscription to cover cost of postage 75c. Money orders payable at Lowdham, Notts.

Address EDITORS OF THE "H. A."
Chilwell Nurseries, LOWDHAM, Notts, England.

The Horticultural Trade Journal

THE LARGEST, BRIGHTEST AND BEST

Horticultural Trade paper in the British Isles. It contains MORE ADVERTISEMENTS, MORE ILLUSTRATIONS and MORE NEWS than any of its contemporaries. Read by the whole of the British trade and all the best European houses every week. Annual subscription, 75 cents. Specimen copy post free. Published weekly. Horticultural Trade Journal Co., Padiham, Lancs., Eng.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.



STANDARD FLOWER POTS!

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in. in crate, \$1.88	120 7-in. in crate, \$4.20		
1500 2 1/2 " " " 5.25	60 8 " " " 3.00		
1500 2 1/2 " " " 6.00	48 9-in. in crate, \$3.60		
1000 3 " " " 5.00	48 10 " " " 4.80		
800 3 1/2 " " " 5.80	24 11 " " " 3.60		
500 4 " " " 4.50	24 12 " " " 4.80		
320 5 " " " 4.51	12 14 " " " 4.80		
144 6 " " " 3.16	6 16 " " " 4.50		

Send pans, same price as pots. Send for price list of 5 binders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward N. Y.
Or AUGUST ROLKER & SONS, New York Agents,
31 Barclay Street, New York City.

KELLER BROS.

213-15-17-19-21-23 Pearl St.,
NORRISTOWN, PA.

Manufacturers of Standard Flower Pots, red in color, equal to the best on the market; are 16 miles from Philadelphia, best of railroad connections. We give special attention to mail orders and make special sizes to order in quantities. A postal will bring prices and discounts.

RED POTS

SAMPLE POT AND PRICE LIST
ON APPLICATION.

C. C. POLLWORTH CO., MILWAUKEE, WIS.

American Florist Ads

Always do business, week days and every day. Sundays and holidays, all over the country, at home and abroad.

Cincinnati.

TRADE GOOD FOR THE SEASON AND PROSPECTS VERY BRIGHT FOR AUTUMN.—STOCK NOW SCARCE AND PRICES LOW.—DOINGS OF GROWERS AND OTHERS.

Business for this season of the year is good, and flowers, too, hold up exceptionally well. Bride and Bridesmaid roses are a little scarce, there being not enough at times to fill orders. Some very good Kaiserin and La France are being received, which sell readily at \$3 and \$4 per hundred. Carnations are poor in quality and go at 75 cents per hundred. Asters are very good and move pretty well at 75 cents per hundred. Gladioli and other outdoor flowers are plentiful. We have had delightful weather all summer and this has a great deal to do with the quality of flowers.

The florists of this city are looking forward to the Fall Festival, which takes place September 15 to 27. There will be a great many flowers used for the civic parade and I hear of several good sized orders booked, one calling for \$500 worth of material. President Roosevelt will be here and this, too, will keep one or two florists busy furnishing flowers and decorations for the receptions. The future outlook for business is very bright.

Will Murphy is getting along first rate with his building. He has torn away all his old houses and built an extensive new range. He will be ready to plant his carnations in a week or ten days.

J. A. Peterson is on a three weeks' business trip, visiting St. Louis, Chicago, Detroit and Cleveland before taking in the convention at Asheville.

Henry Greve writes from Dallas, Texas, that business is very good. Henry is a Cincinnati boy and we are glad to hear that he is prospering.

From present indications the attendance from this city at the S. A. F. convention at Asheville will be limited to about a half dozen.

Another store has been opened on Fourth street, by Mr. Eberhardt, under the name of Eberhardt & Wetzel. D.

PITTSFIELD, MASS.—The C. M. Atkinson greenhouses on Elm street have been leased to Richard Engelman.

CLARKSVILLE, TENN.—James Morton, who has assigned with liabilities of \$4,675.12, charges his failure to the loss by hail about a year ago, which put him so far behind that he has never been able to catch up.

TIN FOIL

Plain, Fancy, Printed & Mounted,

Manufactured by

The Conley Foil Co.

521 to 541 West 25th St.,
NEW YORK.

LEADING Florists' Supply House M. RICE & CO.

Importers and Manufacturers,
918 Filbert Street, PHILADELPHIA, PA.
Catalogue for the asking.



MODEL EXTENSION CARNATION SUPPORT

Made with two or three circles. Endorsed by all the Leading Carnation growers as the best support on the market.

Pat. July 27, '97, May 17, '98

Prompt Shipment Guaranteed.

IGOE BROS.

226 North 9th St.,
BROOKLYN, N. Y.

Please mention the American Florist when writing.

TO KILL ALL Greenhouse Bugs

USE

"NICOTICIDE"

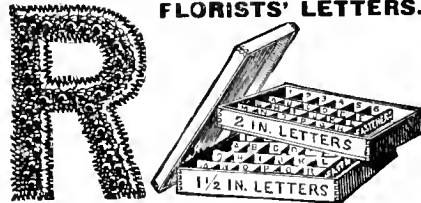
Clean and harmless as Fumigant or Spr., Ask your seedsman for it or write to

The Tobacco Warehousing and Trading Co.,

1000 Magnolia Ave., - Louisville, Ky.

Boston Florist Letter Co.

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00. Script Letters, \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hawley St., BOSTON, MASS.

Please mention the American Florist when writing.

A. HERRMANN,

- ☛ Cape Flowers, all colors,
- ☛ Cycas Leaves, Metal Designs,
- ☛ and All Florists' Supplies.

Send for Prices.

404-412 East 34th St. NEW YORK.

There's Business All Summer

If you will only work it up. Don't let your stock run down. Be sure to have everything on hand that a customer may call for. You will find every requisite listed and priced within the covers of our new Illustrated Catalogue. Free to Applicants in the trade only.

H. BAYERSDORFER & CO.,

Manufacturers and Importers,
50-56 N. Fourth St., Phila., Pa.

100% PROFIT

IN SELLING

Sulpho-Tobacco Soap

(PATENTED.)

KILLS ALL INSECT LIFE.

Fertilizes and Invigorates Flowers, Plants, Shrubs, Etc.

PRICES LOW.

We Help You Sell It.

Write for sample cake and full particulars.

Larkin Soap Co. Buffalo, N. Y.

NIKOTEEN

IT COSTS 4 CENTS FOR EACH 600 FEET OF FLOOR SPACE

DOES NOT INJURE THE MOST SENSITIVE PLANTS - ENDORSED BY PROMINENT FLORISTS - USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT - 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN - CIRCULAR FREE - SKABCURA DIP CO. CHICAGO.

Kill AND SAVE THE BLOOMS the Bugs! QUICKLY DOES IT.

BEST AND Cheapest

ALL-ROUND INSECTICIDE on the Market.

For Sale by Seedsmen. For Free Pamphlet Write to The Kentucky Tobacco Product Co., Louisville, Ky.

MOLLER'S

Deutsche Gartner Zeitung

The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

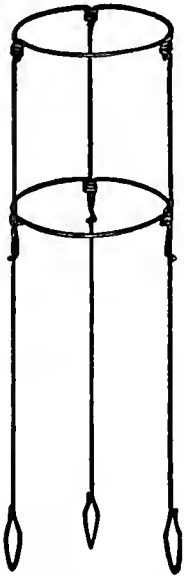
Moller's Deutsche Gartner Zeitung is published weekly and richly illustrated. Subscription \$3.00 per annum, including postage. Sample copies free.

LUDWIG MOLLER, ERFURT, Germany

NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn, N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

The Model Extension Carnation Support.



Flushing, Long Island,
Dec. 14th, 1901.

MR. THERON N. PARKER,
Brooklyn, N. Y.

Dear Sir — I have used your Wire Carnation Support the last two years, in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.

Very truly,

A. L. THORNE,
La Fayette, Ind.,
July 8th, 1902.

MR. THERON N. PARKER,
Harrison, N. J.

Dear Sir: — After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season.

We were much pleased with the simplicity, strength and neat appearance of the support.

Yours truly,

F. DORNER & SONS CO.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.

The Parker-Bruen Mfg. Co.
208 Jersey St., Harrison, N. J.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25. Manufactured by
W. J. COWEE, BERLIN, N. Y.
Sample Free. For sale by dealers.

REED & KELLER,
122 West 25th St., NEW YORK.
Importers and Manufacturers of

FLORISTS' SUPPLIES.

Galax Leaves and all Decorative Greens.

Horticultural Builders & Heating Engineers
PHILLIPS MFG. CO.,
Tel. 1851 Bergen. Jersey City, N. J.

In 1900 we built 5,726 square feet.
In 1901 " 21,276 square feet.
In 1902 " to date 14,982 square feet.

Have orders for 19,600. This should convince you we are progressive and up-to-date. See the range we are building for S. Untermyer, Esq., Greystone, Yonkers, N. Y.; conceded by practical authority to be a perfect type of greenhouse. Call us up.

KIFT'S Patent ADJUSTABLE VASE HOLDER

No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tubulars) \$2.25. Price complete (with green or white corauopsis vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nickled, with three clasps for 5 to 6-inch pots, each \$1.75.

KIFT'S PATENT Rubber Capped FLOWER TUBES, 1½-inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.

FOR SOMETHING NEW AND NICE

"Cluster of Roses Stationery"

for Florists, is the latest. Both plain and in colors. Samples free by

DAN'L B. LONG, Publisher, BUFFALO, N. Y.

Please mention the American Florist when writing.

RED CYPRESS
Greenhouse Material and Hot Bed Sash.

REMEMBER it costs you nothing to get our Sketches, Estimates and Catalogue.
We use only the very best material air dried and free of sap.

FOLEY MFG. CO.
Office, 471 W. 22d St., Chicago.

D. O. Gunningham Glass Co.,

PITTSBURG, PA.

Tank Window Glass.

Hot-House Glass A Specialty.



EVANS' IMPROVED CHALLENGE VENTILATING APPARATUS

WRITE FOR ILLUSTRATED CATALOGUE
QUAKER CITY MACHINE WORKS
RICHMOND, IND.

Boilers OF HIGH GRADE..

For GREENHOUSES.

See Our Catalogue.....

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WARM WEATHER CAUSES INDOOR STOCK TO DETERIORATE.—GOOD MATERIAL FROM THE GARDENS.—GROWERS ARE BUSY BUILDING.—VARIOUS LOCAL NOTES.

Very warm weather has had a bad effect on roses and, excepting a few Meteor and Kaiserin, stock is of very inferior grade. The new plants seem late coming into bloom and the flowers cut from the young stock are short in the stem. Beauties are again on the market but are mostly short of stem and pale in color. Outdoor stock at present is exceptionally fine. Sweet peas were never better or more plentiful and meet with ready sale. Asters are in quantity and the wet weather and cool nights have given good, clean flowers, larger than other seasons. Lilies are quite abundant, longiflorum, auratum and album helping out with funeral work.

Grobba & Wandrey, of Mimico, have purchased six acres of ground adjoining their present property. They have been hampered for space and will now grow more outdoor stock. The past season has been a very active one for them. Several new houses were put up, a new well sunk, new boilers installed and fresh paint put on. The place is now in fine order.

J. H. Dunlop has put up a range of seven houses under one roof. This is a new rose section and has been planted mostly in Bridesmaids and Brides. Tile benches are used and all the latest improvements make this the most modern section on the place.

The month of July was a good one; several good weddings and many funerals used up all available stock and often left one in a dilemma to fill orders.

With coal at \$7 per ton and coke at 10 cents a bushel, greenhouse heating is expected to prove expensive the coming season.

Frank Duffort, of Little York, has put up a new brick dwelling and will put up several houses before frost.

Mr. Smith, of Smith & Fetters, Cleveland, is a visitor. H. G. D.

NEWBURYPORT, MASS.—J. J. Conley has opened an attractive new flower store on Pleasant street.

GRASS LAKE, ILL.—The native yellow columbinum, or water chinquapin, (N. luteum) is blooming very profusely here this season.

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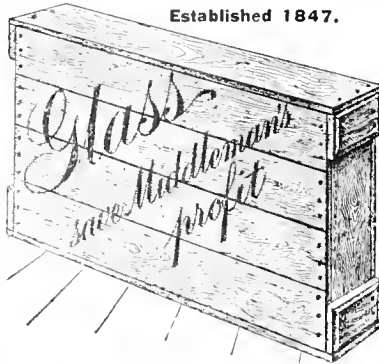


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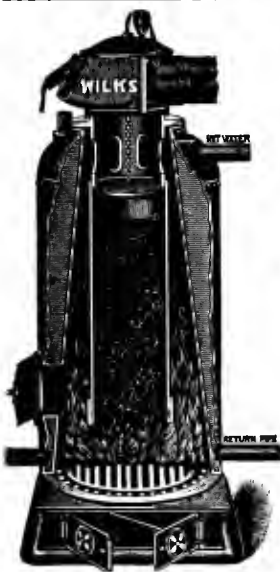
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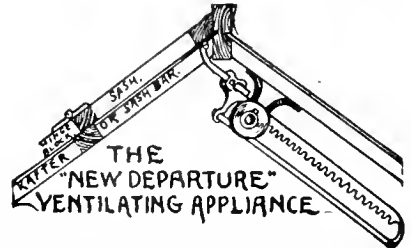
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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch the bottom."

Vol. XIX.

CHICAGO AND NEW YORK, AUGUST 16, 1902.

No. 741.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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**SOCIETY OF AMERICAN FLORISTS AND
ORNAMENTAL HORTICULTURISTS.**

OFFICERS—JOHN BURTON, Philadelphia, Pa., president; J. W. C. DEAKE, Asheville, N. C., vice-president; W. M. J. STEWART, 79 Milk Street, Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer. The eighteenth annual meeting will be held at Asheville, N. C., August 19-22, 1902.

Advice From Fra Albertus.

"If the concern where you are employed is all wrong and the Old Man a curmudgeon, it may be well for you to go to the Old Man and confidently, quietly and kindly tell him that he is a curmudgeon. Explain to him that his policy is absurd and preposterous. Then show him how to reform his ways and you might offer to take charge of the concern and cleanse it of its secret faults.

"Do this, or if for any reason you should prefer not, then take your choice of these: Get out or get in line. You have got to do one or the other—now make your choice.

"If you work for a man, in heaven's name work for him!

"If he pays you wages that supply you your bread and butter, work for him—speak well of him, think well of him, stand by him and stand by the institution he represents.

"I think if I worked for a man I would work for him. I would not work for him a part of the time, and the rest of the time work against him. I would give an undivided service or none.

"If put to the pinch, an ounce of loyalty is worth a pound of cleverness.

"You cannot help the Old Man so long as you are explaining in an undertone and whisper, by gesture and suggestion, by thought and mental attitude, that he is a curmudgeon and his system dead wrong. You are not necessarily menacing him by stirring up discontent and warming envy into strife, but you are doing this: You are getting yourself upon a well-greased chute that will give you a quick ride down and out."

Topics of the Times.



As the eighteenth birthday of the S. A. F. rolls around, the value and accomplishments of that society become timely topics and may, perhaps, be touched upon in this small budget of horticultural gossip without encroaching upon the territory that will doubtless be much more ably covered in the annual address of the president of the society.

In union there is strength and, while the national society thus far has only included a fraction of the numerical strength of the trade, yet even that fraction, when in combination, has shown its force and been able to accomplish some things that we units of the trade had been powerless to do. Recognition of the trade by those autocrats of transportation, the express companies, was one long stride forward, and an advance that would have been long delayed had it continued to depend upon individual rather than organized effort.

Now the railroads have gone so far as to advertise special rates for the period covering the annual meeting of the society, and this year offer better terms than ever before, all of which goes to show that while we cannot yet give mortal combat to the glass trust, there is a measure of recognition being accorded to the florist trade.

The meeting of this year will be the first in the history of our society to take place in a really southern city and it is reasonable to expect that our brethren of the south will attend that meeting in goodly numbers and do all in their power to ensure its success. The hospitality of the south is far famed and there is every reason to believe that all the traditions on that point will be quite fulfilled.

But there is another thing that may be done, and possibly will be done, on this occasion; that is to show us by means of exhibits some of the advantages of the south from a horticultural point of view, for in a country that is such a mine of wealth from a botanical standpoint, as the state of North Carolina, for example, there must be great horticultural possibilities, and many of these possibilities may now be in course of development.

That many members make the S. A. F.

meeting the occasion for a pleasure trip is not doubted, but the exchange of ideas between visitor and visited is also bound to occur, and is decidedly one of the valuable features of such gatherings. It will be remembered that in the manufacture of various kinds of small hardware a number of small castings are cleaned and polished at the same time by rubbing against each other in a "tumbling-barrel," and on the same principle the ideas of one man may be polished into shape by rubbing up against the ideas of the other fellow.

Of course there appears from time to time some one who thinks the S. A. F. is conducted by a small ring for their own benefit, and in much the same manner that seems to be most approved in municipal politics, but if such were the fact, there is one remedy that is equally open to all members of the society, and that is found in the privilege of attending the meetings and casting a ballot at the proper time and where it will do the most good.

A kick entered after the meeting is over is not likely to mend matters to any great extent, nor to make any radical change in the management of either a society or a political party. The proper time to make a protest effective is at the time the objectionable action is about to be taken. Therefore if there should be some progressive brother who has useful suggestions to offer regarding our national society, it is respectfully submitted that the third week in August is the accepted time, and the Auditorium in Asheville, N. C., is the proper place for their presentation.

Another topic that comes to mind just now is the apparent trend toward centralization in our business. From the various "first greenhouses in America" that have been illustrated in different publications, down to the modern, extreme type of commercial greenhouse that is anywhere from 500 to 1,000 feet long, is a big stride, though one that has been made in a comparatively short time. While the limit of usefulness and convenience may have been reached in regard to the dimensions of individual structures

the limit in size of establishment has not yet appeared. Glass is put up by the acre now, and it would require a bold prophet to predict what may be done twenty years hence. The question arises as to whether some of the little fish will not be swallowed up by some of the larger occupants of the pool of trade before that time arrives, and whether the dear public will not be considering the pros and cons of the florists' trust some time in the future.

If this increase of glass area continues proportionately we may read something like the following among the trade reports of the future: "We are creditably informed that on Monday next the John Smith Rose Company will send in by refrigerator cars, about 100,000 extra fancy, long-stemmed Beauties. This information, coupled with the fact that favorable crop reports have been received from a number of prominent producers throughout the rose belt has caused some little depression in the market, and we venture to predict that during next week at least earload lots may be secured at a reduction of several points from present quotations."

But before such reports become common there will be improvements made in the methods of distribution, and the central market idea will be developed in many of our cities, for with the phenomenal increase of business in cut flowers there must be advances made in the methods of handling the product.

When the original proprietor of the Ames shovel works began making shovels in North Easton, Mass., it is related that after having made a few of these useful tools he would close up his shop and take his product into Boston, where he would sell these few shovels and then return home to make some more. But as the quality of his output became known the demand increased to such a degree that shop after shop was added to the plant and the product increased to hundreds of dozens per day, and it was no longer a one man business run in a one-horse way. And judging from the way that greenhouse establishments have grown during the last decade, it does seem just a little primitive that the product should be peddled about from store to store, as is still the practice in some of our large cities. But the flower market idea is gaining in strength, and we believe will effect a lodgement even in our conservative city of Philadelphia before many more seasons have gone into history.

Novelties among plants and flowers are always timely topics to the trade, but among the former there have been comparatively few of very great merit of late years, this possibly being due to the fact that more attention has been paid to improved cut flower stock than to foliage or ornamental plants. This is quite natural on account of the fact that the returns are secured from a new cut flower or improved variety in much less time than is possible from the introduction of a new foliage plant or a new orchid, and quick returns are what most people are looking for in this hurried age.

The improvements that have been made in florists' flowers are truly wonderful, and the improvers deserve all the credit that is due them, also all the duents that may be realized from their discoveries, for most of the valuable improvements that have been made in this line are the result of painstaking and systematic experiments.

There are being established some ideals, which goes to show that there is something definite in mind and that American

floriculture is making some definite advances. Our fine carnations are not all greeted with enthusiasm in Europe because there is a difference of opinion as to the ideal form for a carnation, and a flower that suits our markets may not meet with full approval on the other side, but this is no reason why we should not have standards of our own.

Our methods of exhibiting cut flowers are an advance on the older practice, a neat vase of long-stemmed roses, carnations or chrysanthemums being infinitely more graceful and more natural than the exhibition board of ancient usage, and also adding very greatly to the effectiveness of our various flower shows.

On the whole the horticultural outlook in this good year of 1902 is encouraging, both from an artistic and materialistic standpoint, even though competition may be keen.

W. H. TAPLIN.

George H. Ellwanger.

Few books have done as much to promote a knowledge and love of horticulture as the "Garden's Story," by George H. Ellwanger; and no book, it has been justly said, has taught its lesson so delightfully. With good reason, in that



GEORGE H. ELLWANGER.

the author has brought to his subject a long and practical experience, a fine and cultivated taste and the pen of a ready writer.

Mr. Ellwanger is the eldest son of George Ellwanger, the veteran and venerable horticulturist and founder of the Mount Hope Nurseries. He was born in Rochester, N. Y., and finished his education by a five years' course of study and travel in Europe. He thus became an easy master of French and German, and so can turn his command of those languages to good account and keep in ready touch with all the foreign periodicals and literature on floriculture and arboriculture. Many friendships and intimacies were formed at this time and in later visits to Europe, with such distinguished men as William Robinson, George Nicholson, Andre Leroy, Reynolds Hole and others, whom simply to have known argues a liberal education in the matter of roses and hardy flowers and every tree and shrub that blooms and grows.

But aside from his technical and scholarly knowledge in this especial field, Mr.

Ellwanger has loved to dig and delve and prune for himself, and to know intimately and as personal friends the daffodil and rose, the pæonia and phlox and every ornamental bush and shrub that serves to make the spring and summer glorious. He has said that every tree has its individuality as marked as the eyes or nose of a man, and it is this human sympathy with his impersonal friends among the trees and flowers, which has made the "Garden's Story" and his other volumes on nature so readable and helpful. The "Story of My House" followed the "Garden's Story" as a graceful companion piece, and Mr. Ellwanger has published in quick succession "In Gold and Silver," "Idyllists of the Country Side," "An Introduction to White's Natural History of Selborne," a new and revised edition of "The Rose," by H. B. Ellwanger, an anthology entitled "Love's Demesne," and other works. In the meanwhile, too, he has found time to contribute articles on flower or fruit to various garden journals. As a writer within these lines his characteristics are his catholicity, his graceful versatility and the assured knowledge wherefrom he speaks.

Mr. Ellwanger is a director and secretary of the Ellwanger & Barry Company and also director and secretary of the Ellwanger & Barry Realty Company. He is a member of the Author's Club, of New York, of the Pundit Club, of Rochester, the oldest literary club in America; and is an honorary member of the National Rose Society of England. All lovers of the queen of flowers will be glad to learn that he has promised for early publication a new, revised and fuller edition of "The Rose," by his brother, the late H. B. Ellwanger, the American standard of authority on that flower.

That George H. Ellwanger will succeed to the high honors of his distinguished father, George Ellwanger, the pioneer of American horticulturists and pomologists, would seem predestined by stronger laws than those of mere inheritance. Yet happily George Ellwanger is still with us, enjoying a ripe old age of almost four score years and ten.

A Wedding Decoration.

The accompanying illustration is from a photograph of a church decorated by Jos. Kift & Son, Philadelphia, for a June wedding. With the exception of the lilies in the baptistry and the central arch, the only flowers were roses, of which more than 6,000, medium to short-stemmed, were used. The varieties were Kaiserin, Bride, Bridesmaid, Queen of Edgely and Robert Scott, the colors being limited to white and pink. The effect was of a large arbor, covered with climbing roses in full flower. Each color was kept separate, the plants being apparently growing from large green pots which contained laurel branches and these, being covered with roses, showed a fullness and irregularity that gave the whole decoration a more natural appearance.

In the photograph, which was taken by flash light, the difference of color is not apparent, but, while each variety was kept to itself, they were trained, some straight, others diagonally, and all to look as natural as possible. The space covered was ten to twelve feet high by seventy-five feet long. The roses were arranged in Kift's vase rods, which were suspended by wire from stout tacks in the top of the cornice rail. The whole arrangement was in front of polished



A WEDDING DECORATION BY JOSEPH KIFT & SON, OF PHILADELPHIA, PA.

woodwork and was taken down without leaving a scratch. The pew ends and kneeling stool were decorated with white roses and palms were used in front of the platform and on either side of the front of the church. The baptistry, as is seen, contained Easter lilies in trumpet or horn shaped vases. The edge was covered with curved mossed boards, and on the arch lilies were placed in the vases on rods. The wedding took place on Saturday, and the Sunday following being children's day, the decorations, with the exception of the pew ends and kneeling stool, were allowed to remain. The cut flowers kept splendidly and were in such good condition after the evening service that they were distributed to the members of the congregation.

ROBERT KIFT.

CARNATIONS.

METHODS OF BENCHING.

We think the best time to bench carnations is from the first of July to the middle of August. We always try to have them benched during July if possible, especially the red varieties and others that are somewhat slow in starting. All the new ones we have on trial we bench early. It gives them a fair showing with the older varieties and also gives us a chance to see whether later planting would benefit them any. The stock for propagating purposes we like to bench from August 15 to September 1.

Our method of planting is as follows:

We first shade the houses heavily with mud wash. Then we empty the benches and clean them thoroughly with hose and broom. While they are still wet we give them a thick coat of lime wash and cover the cracks with leaves and straw to keep the soil from falling through. We are then ready for the soil. Having the soil hauled where it is most convenient, we add what fertilizer we think it needs, turning it over about three times and pulverizing it.

We fill about fifteen feet of the bench at one time, leveling it off sufficiently that it can be packed firmly by tramping. We then use a 2x4 somewhat longer than the bench is wide, so as to be able to get a good hold on each end, and rake the soil even with the top of the bench. We water the soil the day before we plant and mark off the bench so that we can tell just where each row goes.

We have two men who use good judgment in digging up plants, being careful to put the spades on each side far enough away from the plants so as not to cut any roots, each pushing down his spade at the same time deep enough to get below the bottom roots, lifting together so as to leave a large lump of soil around the roots. Other men pick up the plants and reduce the balls of soil so that we can just see the roots. In filling the two flats we cover all roots exposed and take them to a shaded place or into the house that is to receive them. We have enough help to keep two or more planters busy. They use care not to bunch the roots, and break the soil to give them a chance to take immediate hold, planting them a

great deal higher than they stood in the field and with about a quarter of an inch of soil over the top of the roots. We leave hollows around the plants to hold sufficient water to keep them growing, and water for three weeks in these depressions only. We syringe the plants twice a day and keep the walls and walks damp until the plants have taken hold. Then the shade is taken off so as to give them the full benefit of the sun, with plenty of ventilation at all times.

We have some two-year-old carnations growing in soil that we used last year, being sterilized, but not sufficiently, owing to lack of boiler capacity. We also have some young plants growing in new soil sterilized completely, and chrysanthemums growing in two-year-old soil. They all look very promising. In fact we are picking some very nice carnations from the two-year-old plants to-day. The crop they have on is enormous.

CHAS. KNOPE.

We commenced to bench our carnations July 17, and had them all planted early in August. In this section there is very little if any variation in the weather between the middle of July and the end of August. We are just as liable to get a hot spell one time as the other, so that practically, as far as the temperature is concerned, the conditions would be the same at either time. Our plants benched early have just so much more chance to brace up and get hold of the soil, and with us the results are decidedly in their favor.

Before beginning to clean out the benches we cover the glass with a lime and mud shading, adding a handful of salt to each bucketful of the mixture. This is to prevent the rain from taking it off before the plants are established, after which it is easily removed in a dry state with a broom. We give the house a thorough cleaning, both in the benches and underneath, before bringing in the soil.

The soil here is a black prairie loam. To this we add equal parts of a yellowish clay, which, when in a dry state, crumbles at the slightest touch. When ready to wheel in the dirt we haul one load of black soil, then one of clay, another of black soil, another of clay, and on top of this a load of well rotted cow manure, making a pile of five loads. These are dumped at the ends of the house, where the compost is thoroughly mixed and then wheeled onto the benches, a man inside leveling it as it is brought in.

We then sprinkle over the surface a dressing of fine bone meal, working it well in. Should the soil be in a dry condition we go over the beds and tread it down, but after so much rain we have not had to do so this season; it settles enough without.

In lifting the plants we leave on only the soil that clings to the roots. The plants are placed in boxes deep enough to hold them upright, the roots given a sprinkling and moved inside right away. Should the weather turn very hot, we take half barrels out to the field and fill them with water, dipping the roots before placing the plants in the boxes, first sprinkling a little dry soil on the bottom. We find this dry soil to stick to the wet roots, preventing any withering whatever.

We have now the most important part of all to deal with, that of setting the plants. Our plants are set eleven inches across the bench and twelve inches lengthwise. In planting we are very particular to get the roots spread well out around the plants and not on one side only, as we have noticed with some planters, also being particular that the plants are set no deeper than they were when growing in the field.

We then give them a good watering, around the plants only, after which we keep them syringed two or three times a day for about a week, by which time, if everything is right, they will have taken hold of the soil and less syringing is necessary. Some of the shading is also removed and in a very little while they will stand full sunlight.

In mapping out our planting we are particular to place together varieties that require the same temperature, as near as we can. Some varieties will need watching to keep them uniform in growth and prevent a shoot here and there running up to flower before you are ready for them. We do not put on the wire supports right away, but wait until the beds have been weeded a couple of times, after which the wires are placed and the plants are then ready for the winter's work.

CHAS. W. JOHNSON.

Planting the houses is the present move in carnation culture and there is no more critical period in a carnation plant's life than that between the field and its becoming established in the house. Preparation in the field consists of cutting off all developed buds. In fact, except with very late varieties, there is a distinct gain in cutting off every shoot that shows a bud,

as all buds formed in the field will produce second grade flowers. Aside from this the production of these second grade flowers robs the plant of its vitality at a time that vitality can be least spared.

Presuming that you have planted a few hundred more than you need of each variety, as all good growers do, all plants that do not show a healthy growth should be left in the field. Where every plant is needed, a little judicious trimming is good policy. All broken branches should be cut off clean, with a sharp knife. Under no circumstances break any branches off. All branches that show poor, unhealthy foliage should also be cut off. This treatment will sometimes give a healthy plant for the winter, but, as before stated, where you have plants enough it is far better policy to leave all such plants in the field.

The only point to be observed in digging is to break as few roots as possible



ROBERT BOTTOMLEY.

and to follow the digger closely, boxing the plants as fast as they leave the spading fork. The plants should either have the roots dipped in water or be well watered in the boxes, as each box is filled, for under no consideration should they be allowed to become wilted.

One cannot pick the exact weather for planting but it will pay to wait a day or two rather than dig the plants when a high wind is blowing, as on such days the rapid evaporation of moisture from the leaves is extremely hard on the plants. Another form of weather to avoid is that right after a warm rain, as then the plants are so filled with moisture that the checking of root action which is a part of planting, no matter how carefully done, is apt to put them in bad shape.

Having brought them into the house in good shape, the next important point is to have the soil in the houses nice and moist. Every florist knows the proper condition. Plant them with a big trowel and make the hole large enough so that the roots are not cramped. Firm the bed according to the condition of the soil. Some soils bear tramping with the feet to make them solid, and others will be plenty solid enough with a pressure of the trowel or hand. Great care should be used to see that the plants are not set too deep. All the branches and leaves should clear the ground by at least a half

inch and more if the stem will allow it. Not all of the stem rot is caused by deep planting, but a good proportion of it comes from this fault.

Watering should follow the planting very closely and the first watering should be pretty thorough, so that it reaches the roots of the plants, but do not make the soil soggy, as this condition is very hard to remedy at this time of the year on account of the plants not being in active growth. The whole aim of watering and syringing is to keep the plants from wilting and the soil from souring. Syringing on bright, hot days should be often and light for the first week or ten days after planting, and after the plants have taken hold only enough to keep down the spider.

Staking should be done as soon after planting as possible. We stake each row as it is planted with a short wire stake at each end of the row and between each of the plants. The tying is done in the form of a loop around the stakes and not by tying the plants to the stakes. This method keeps them off the ground, starts them straight and serves until the rush of fall work is over; then the stakes are easily removed for the regular system of staking for the winter. This may seem like considerable work but it pays a big interest on the investment.

Shading is largely a matter of weather. Some growers use no shade but better results are obtained where the plants are shaded for a week or ten days after planting, not heavily enough to make the house dark but enough to break the strength of the sun's rays. A clay or lime wash is easily removed. For a lime wash, air-slaked lime is a little harder to keep in solution but is much easier removed when no longer needed than the wash made of water-slaked lime. This shading must be removed just as soon as it is not needed, as it is exceedingly harmful if left on too long.

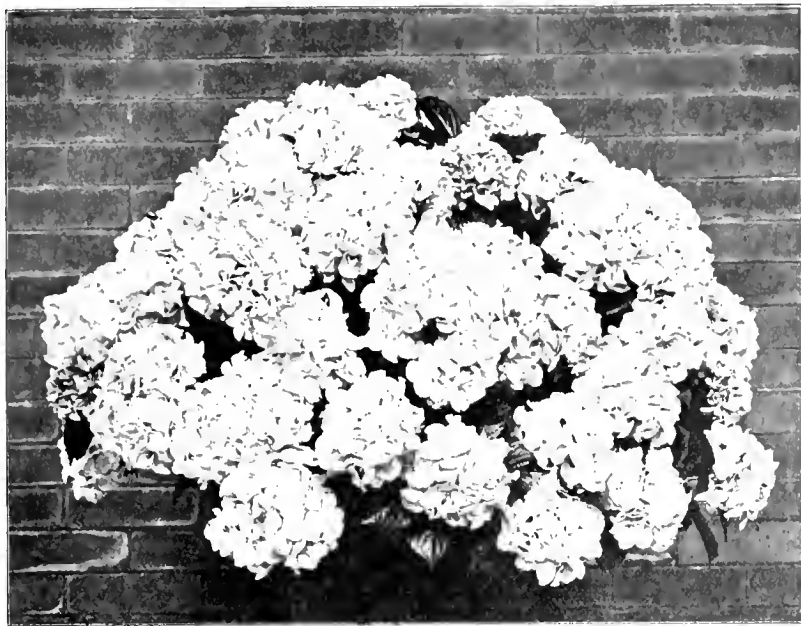
The first week no direct current of air should be allowed to reach the plants but there should be some air on the houses and, if the day is calm and hot, the ventilators should be put on full. The only point to watch is that there is no direct draft over the plants. As soon as they are well established they can be given an abundance of ventilation.

The whole question resolves itself into careful digging, careful planting, careful watering and proper shading and ventilation and then, after the plants have taken a hold, in giving them light and air in abundance.

ALBERT M. HERR.

Robert Bottomley.

Robert Bottomley, superintendent of the greenhouses at Biltmore, came to this country thirty years ago, a trained gardener, and took charge of the S. R. Payson estate at Belmont, Mass., near Boston, previously known as the Cushing place, one of the finest and most noted private estates in the United States at that time. Mr. Bottomley soon took an active interest in the Massachusetts Horticultural Society, becoming a member and contributing to its annual exhibitions. During the thirteen years he remained in charge of Mr. Payson's place he was a frequent competitor against such well-known horticulturists as H. H. Hunnewell, Wm. Gray, Jr., F. B. Hayes and F. L. Ames, frequently winning out on show collections of palms, marantas, ferns, crotons and other stove and greenhouse plants which the records show to have been of unprecedented per-



HYDRANGEA SUPERBA, A HYBRID RAISED BY M. H. WALSH, WOODS HOLL, MASS.

fection. In 1878 he received a silver medal for *Maranta Massangeana*, then shown for the first time. In 1881 the coveted silver cup for twelve ornamental foliaged stove plants was won by him, and in 1882 he was awarded a silver medal for *Asparagus plumosus nanus*, a novelty which was a revelation to the horticultural world.

Mr. Bottomley then went to J. S. Bush, at Tremont, N. Y., in the commercial business, known as one of the best plant growers in the vicinity of New York. The records of the Madison Square Garden exhibitions show that Mr. Bottomley still kept in the front rank as an exhibitor of choice material. From Mr. Bush he went to the Vanderbilt estate at Biltmore, where he has now presided over fifteen years and where the S. A. F. visitors will find him ready to extend the hand of fellowship and open the doors of the great conservatories for an inspection of their contents.

Mr. Bottomley has been an enthusiastic and willing worker in the preparations for the visit of the S. A. F., of which he has long been a member. To the writer he expressed much joy at the prospect of meeting so many of his brother gardeners, for the isolation of the big estate, far removed from the active centers of horticulture, is a serious handicap to one of strong fraternal instincts. By special permission of Mr. Vanderbilt a number of palms and other decorative plants from the Biltmore conservatories will adorn the Auditorium, where the S. A. F. will meet.

Asparagus Scandens Deflexus.

According to the dictionary *A. deflexus* is said to be "probably a form of *A. crispus*" and *A. crispus* is the accepted name for *A. decumbens*. According to "Argus" *A. deflexus* is an entirely distinct plant and more desirable than *A. decumbens*.

In my travels recently I was much struck with the elegance of a plant labeled *A. scandens deflexus*, which I came across, and procured a sample spray for illustration. Although the dictionary gives *A. scandens* and *A. deflexus* as distinct, it would appear the

label is correct in the present instance from the fact that the leaves are borne in threes, while in *A. decumbens* they are in twos. *A. deflexus* is in general effect about half way between *A. Sprengeri* and *A. plumosus*; the leaves are only one-fourth of an inch long and borne in threes. I think it is a very beautiful and charming thing and will be greatly appreciated as soon as it becomes plentiful. I do not know of any being in commerce at present.

G. C. WATSON.

A New Hydrangea.

The new *Hydrangea superba*, a photograph of which is reproduced herewith, was honored with a silver gilt medal at the Massachusetts Horticultural Society's exhibition in Boston on July 27, 1902. It is a seedling raised by M. H.

Walsh, of Wood's Holl, who gives the parentage as *H. Otaksa* and *H. cymoclada hortensis*, the plant illustrated being now four years old. The flowers at the time of exhibition presented a beautiful gradation of pink, violet and blue, the youngest bloom being white. The flowers are of great substance and borne on slender, wiry stems.

Notes on Aqualics.

The weather during July has been equally as trying as was June for all tropical plants. While we had a month of pleasant weather the temperature generally was below the normal and the result has been that many plants that suffered during the month of June have not made up what was lacking. This has been very disappointing in many instances but there is much to be learned from such experience and the practical man will observe these abnormal seasons with profit. It is gratifying to know that such seasons do not follow close together and that the next will likely not be a repetition of this one.

It is well to note that it is risky to plant out tropical water lilies at the first approach of warm weather and that it is better to wait and grow the plants on under protection, or even to put out the usual plants later if protection cannot be afforded them. As I stated in the issue of July 12, plants and started tubers planted out the latter end of June have been most satisfactory. These have continued to grow without check and at this date several of the varieties have attained their full size, particularly the day flowering varieties, such as *Nymphaea Zanzibariensis* and its forms, also *N. gracilis* and its forms, *N. stellata* and so forth. The Indian species and other night flowering varieties have made excellent growth, a few flowers have expanded and a full complement of first-rate flowers may be expected during August. In northern and eastern sections the night flowering nymphaeas will probably be late in flowering and it will be well to note the difference between the day and the night flowering varieties.

During this period we have, however,



ASPARAGUS SCANDENS DEFLEXUS.

enjoyed the hardy nymphæas, which have been in their element and will doubtless continue so during the month of August and, in more northern latitudes, a month or more later. With this class of nymphæas very much can be done without entailing loss or disappointment. They possess strikingly brilliant colors and vie with the tender nymphæas for supremacy. True, they are not as large, but they have large flowers and colors not to be met with among the tender varieties. The market value of these may be some detriment, but stock is limited. However, it is but one outlay and when once planted they can be grown as readily as the native varieties, requiring similar care and treatment.

Perhaps the greatest disappointment in the cultivation of aquatics this year is with the victorias in unheated ponds. There is no certainty what the weather will be for two or three weeks ahead,

plants during June. Certain it is that all tender aquatic plants can be grown out of doors in these northern states with the best of results provided means are at hand to protect them during the early stages, if necessary.

There is still another group of plants that have held their own during the past month and that is the nelumbiums. They can always be depended on to add their oriental splendor to the water garden, when once established. They have their enemies, as do other plants, and they must be looked after. The most difficult problem sometimes is to establish them or perhaps to get them started. They are hardy, as hardy as hardy nymphæas, but the tubers will not stand any frost. We are apt to forget that it rightly is a tropical plant. Many are asked for too early and many failures result. A given day or week will not do; the proper conditions are essential. May

is usually the month for planting but it is sometimes the middle of the month and again another season it may be the end of the month, before warm, settled weather is at hand. A rich loam soil, well rotted manure, sunny exposure and protection from high winds will suit them admirably.

WM. TRICKER.

The Crimson Rambler and Its Uses.

The many uses and the popularity of the Crimson Rambler rose were very noticeable this spring. Fences, verandas, archways and so forth are conspicuous in every direction at this season and looked upon with genuine pride by their owners. Newspaper correspondents relate how many clusters or single blooms are on their climbers with alarming exactness, showing how strong this introduction is in public favor. Aside from this, its judicious use in ornamental gardening on private estates has taken considerable hold. We have seen and read of many fine examples in this direction, but in the formal rose garden it seems especially appropriate, its rapidity of growth being a desirable feature. The illustrations herewith represent an arch and hedge that have been planted only two years in such a garden on the estate of Mrs. Chas. Wheeler, Bryn Mawr, Pa. Mr. Fowler, the gardener in charge, has developed an old-time English rose garden and, with the use of these newer introductions, the old ideas are complemented and reveal a delightful spot. Many other climbing roses are used for like purposes in this garden. Evergreen Gem, Jersey Beauty, Climbing Hermosa, Yellow Rambler, Pink Roamer and many varieties of the Wichuraiana type each lend their aid in framing this modern old-fashioned garden.

FRANCIS CANNING.

Kalanchoe Flammea.

This plant, which first flowered in England in July, 1897, belongs to the crassulaceæ order, and is a native of Somaliland, East Africa. It was first introduced to commerce by James Veitch & Sons, of London, England, in 1900 and groups exhibited before the Royal Horticultural and other societies received gold medals and other high awards in 1900 and 1901.



THE CRIMSON RAMSLER ON AN ARCH IN A ROSE GARDEN.

and the grower desirous of adding this great attraction to his lily ponds must take chances or provide for their special care during June. Our method of culture has been given before, but no season has proved its great advantage as much as the present.

Our plants were planted out the end of May and were protected with a frame and sashes, and steam heat was applied during June. At the end of June the pipes were detached, frames and so forth cleared away, the pond filled up and assumed its natural condition. Although the weather has been cool and the temperature of the water occasionally down to 70°, the plants have not suffered and we have had numerous flowers of good size. The cost of heating three pits for one month is trivial compared with the results. Reports from eastern and northern sections are discouraging but from Richmond, Va., a gentleman reports the best results after failure for two or three years.

In the latitude north of Washington, and even at Washington, there is uncertainty and growers must be prepared to meet reverses occasionally or have a plan for heating, and caring for, these



USE OF THE CRIMSON RAMBLER IN A FORMAL GARDEN.



SWEET PEAS GROWN BY ARTHUR E. CHILMAN, GARDENER TO F. S. MOSELY, NEWBURYPORT, MASS.

This variety is quite distinct from the other kalanchoes in the size and color of its flowers, and is a very beautiful summer flowering greenhouse plant. Although coming from a tropical part of Africa, we find it succeeds very well here under ordinary cool greenhouse treatment.

The plant is some fifteen inches in height, leaves pale green, obovate, two to three inches long and one to two inches wide, above which the brilliant orange-scarlet inflorescence stands exposed. The inflorescence is corymbiform, with an erect peduncle which is repeatedly branched. The flowers are half an inch in diameter and remain fresh a long time, either on the plant or in water. When better known it will be much used for room decoration, for which it is admirably fitted. Our plants were raised from seeds sown in March, 1901, and flowered in June, 1902. A compost of fibrous loam, sand and broken brick seems to suit it. Like the crassula to which it is allied, it should be grown rather dry at the root.

W. N. CRAIG.

Good Sweet Peas.

The sweet peas illustrated herewith were sown just as soon as the frost was out of the ground in spring. The ground had a good dressing of rich barnyard manure in the fall, well spaded under in the spring. Small trenches were opened one spade deep and another dressing of manure was worked into the bottom of the trenches and thoroughly forked in. We sow on this. As the peas grow we pull the soil back into the trench at intervals till the trench is filled up. And then, as dry weather comes along, we mulch with short horse manure.

I have adopted this plan for three years on the same piece of land and have had

good results. I find it pays to be liberal with the manure, as our land is a very light sandy loam, ranging from nine to twelve inches deep on a sandy and gravelly subsoil. We cut large quantities of flowers from these sweet pea vines all through the season. In cutting I always mix in considerable growth and buds. They look much better in vases this way and it induces the vines to continue growing and flowering till frost. There are numbers which escape cutting but before they have time to mature their seed we go over the rows and cut them off. We also watered thoroughly in dry weather.

In regard to seed, I have one row of distinct varieties on wire netting. My employers like them so and if we need separate colors it is easy to get them from this row. This and the next row, a mixture, came from a reliable firm in Boston. They are splendid varieties, on long stems and the individual flowers are large and handsome. The seed for the third row came from a hardware store in Newburyport, Mass. It is difficult to distinguish them. The only difference that I can see is that the stems are a little shorter and the flowers smaller, but there are more of them. Our people are very fond of sweet peas and they use large quantities in the house and to send to their friends.

A. C. CHILMAN.

Sweet Pea Season in Massachusetts.

The papers tell about some man who rented a seaside hotel for the "summer," and then plead that the contract was void because there had been no summer. When shall we see the like again! I suspect Mr. Burpee had a hand in it so that we might get our courage up again on

sweet peas. It seems like old times to see the vines holding a healthy color, blooming freely, and not a red spider or aphid in sight. I would not have the heart to dig up a vine yet to see what the showing of root is. Enough for once to enjoy the blessing that is in sight. The season has been either cool or wet—mostly both cool and wet—up to date. Indeed, a few days ago the buds blasted on account of the rain, an indication that the root cannot support the bloom while making a new spurt of foliage. It takes a week to rally from this condition.

The best showing we have in this vicinity is Horace C. Smith's. He seems to be immune against all sweet pea woes, partly due to his forty year's experience, and quite as much to his locality. He is where he must get a liberal sub-irrigation from the river, has a deep clay deposit for a soil, and thoroughly manures and works it for various market crops. He says well rotted horse manure is better than cow manure, which may be true on his cold clay soil. He runs his plow deep, twice through his furrows, plants five inches deep, never hoes when the vines are wet, and never after they begin to bloom.

We have not had a day yet in which the evaporation has at all tested the root. Several growers made an additional later planting, and two rows side by side show that even a little difference in time of planting makes a large difference in the time of bloom. If the rains that blast the buds come just when these later rows are throwing out their first buds they are apt to be more seriously retarded than the vines that have got into bloom. Once fairly into bloom they quickly rally and get down to work again, but otherwise the rains stimulate a rank growth that may divert the life

of the vine away from bloom for the whole season.

I wish such a season as this could have come two years earlier, before the popular courage had ebbed so low on this flower. Almost everybody who has persisted till this year will get his reward and next year some of the disheartened ones will try again. Say what we will about the seed, the varieties at least hold their type beautifully. To me it is a delight to go through a mixed row and recognize them one by one, reviewing their history for fifteen years. How few people appreciate the apparently endless variety, and know that the letters of the alphabet are not more distinct than the named varieties of sweet peas. I have never yet seen one that could be traced to anything but the skilled and persistent work of the hybridizer.

Mr. Darlington writes me from Fordhook, July 21: "We are having the finest show of sweet peas that we have ever had since your first visit to Fordhook, having probably about 500 trials, all of which are now coming into full bloom, while, owing to the extremely favorable weather even the early sorts are still flowering freely. There is no sign whatever of any deterioration in the seed. Possibly a dozen samples in all show the sweet pea blight, but I do not think this can be laid to the seed in any way, as the trouble seems to be more prevalent in the oldest type of flower, and it is all in one corner of the ground containing the trials. These trials this season are planted on sod land which has been in grass for three seasons and the soil is exceptionally loose and friable. This, combined with the favorable weather and frequent cultivation, has given us a most satisfactory show of flowers, and I am especially pleased with the large size and fine form of many of the varieties. Eckford's new *Coccinea* is very bright and pleasing in tint."

It is a magnificent aster season here. The Queen of the Market is in full bloom, and of finest quality. So are dahlias. It

seems to be a perfect year for them, no matter whether planted early or late. But the farmers deserve our sympathy. The condition of the hay crop reads like a calamity. Repeated soakings have so far been the rule. And if a hail storm misses one field of tobacco to-day, another volley strikes it to-morrow.

W. T. HUTCHINS.

English Hybrid Orchids.

ODONTOGLOSSUM RAYMOND CRAWSHAY.

This is another charming addition to the already long list of varieties of the *O. crispum* group. A strong plant, with five bulbs and eleven flowers was exhibited by Mr. Crawshay at the Royal Horticultural Society, London, last November and received a first-class certificate. The individual blossoms were three inches across and were remarkable for the breadth and substance of the segments, which had a white ground color flushed with rose, and blotched in the center with bright chestnut brown. The lip was large in proportion, with a large blotch in front of the bright yellow purple-speckled crest, and several smaller blotches at the sides. The petals were not only broad but also irregularly toothed or fimbriated on the margins.

SOPHRO-LÆLIA GRATRIXÆ.

This is a very interesting hybrid between two orchids which may be described almost as extreme both as regards their stature and the size of their flowers. One of the parents is the well known scarlet flowered *Sophrontitis grandiflora* and the other is the Charlesworth variety of *Lælia tenebrosa*. The plant obtained by crossing these two genera was exhibited some time ago before the Royal Horticultural Society in London and received an award of merit. It is, of course, impossible to say at present what the plant may become, but when exhibited, it was about six inches high, with oblong leathery leaves about four inches in length. Only a solitary flower was

borne, about three inches across, and of a deep crimson color flushed with bronze. The lip is tubular, like that of a miniature *Lælia tenebrosa*, and is deeper in color than the sepals and petals, with dark lines in the throat. The illustration gives a fair idea of the shape of the flower.

SOPHRO-CATTLEYA NYDIA.

This hybrid, although not remarkable for the great size of its blossoms (which measure about three inches across) is nevertheless interesting on account of its parentage. It was raised by Charlesworth & Co., of Heaton, Bradford, Yorkshire, by crossing *Sophrontitis grandiflora* with *Cattleya calummata*—the last-named parent being a hybrid between *C. intermedia* and *C. Aelandia*. A sturdy little plant with five pseudobulbs varying from two inches to four inches in height, each bearing one or two oblong, deep green, leathery leaves, was exhibited by the raisers in London last winter, when the orchid committee of the Royal Horticultural Society recommended a first-class certificate. The oblong, elliptic sepals, and the broader sub-spathulate petals are of a dark, swarthy red color, irregularly speckled near the margins with blackish spots. The lip has a deep crimson, spreading front lobe, while the over-arching side lobes are washed with faint orange red at the base and more or less distinctly veined on the outer surface. This charming little hybrid makes an excellent companion to *Sophrontitis grandiflora* and *Cattleya intermedia* and is thus a close blood relation. W.

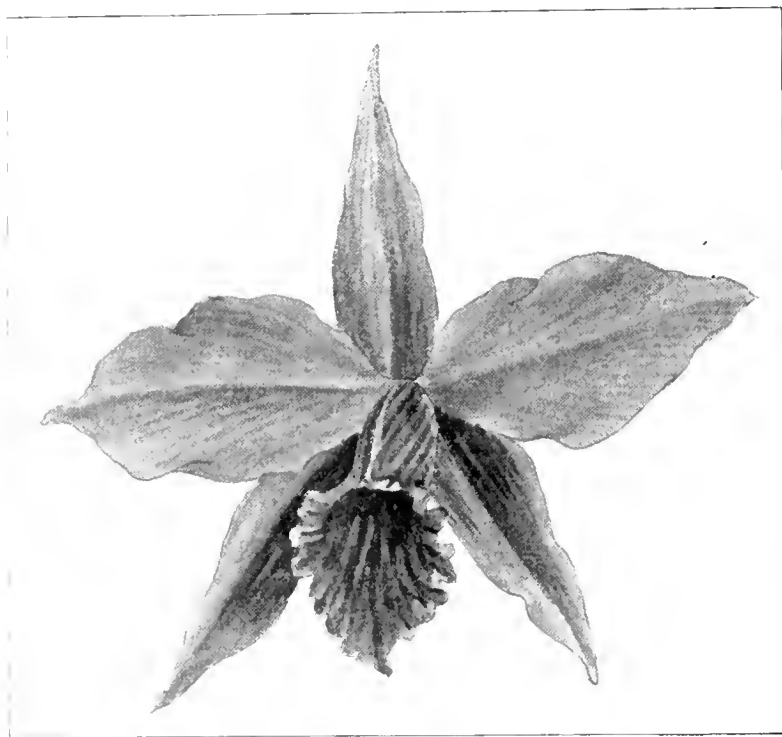
Opening a Fresh Can.

Friends, fellow countrymen, Romans, the ginger jar is empty, and the Barnum of that cool and crisp receptacle is in doubts as to what the next preserve should be. He wavers as to whether he should join the ranks of the Genial Philosophers, men like Benjamin Franklin, Oliver Wendell Holmes or Robert Craig; or whether he should cast his lot with the Hammering Crowd—Samuel Johnson, Thomas Carlyle or Willis N. Rudd; and then again he thinks perhaps the suave and gentle style of Samuel Taylor Coleridge, Charles Lamb or Edwin Lonsdale would be the proper caper under the circumstances.

In the midst of this quandary comes an inspiration. He thinks he has an idea! (Don't smile, please). He will not herd at the tail end of either of the above mentioned noble armies. He has grasped the idea that it is better to be at the head of the commonalty than at the tail of the gentry, and so he is going to make his condiment in such a manner as will fit the common stomachs of the common folks with all the common sense he can gather for that purpose.

Be it understood, of course, that he is not catering to the transcendental intelligence of a "Job," a "Bison" or a "Phil," but only to the ordinary insides of the plain people who have an inveterate habit of figuring that two and two make four and, as Josh used to say, would listen with admiration to the fellow who told them that two and two made six—and the same to the "Smart Alick" who showed them that two and two made twenty-two when placed side by side—but would not invest anything in that kind of arithmetic.

The first thing "Vox Populi" (that beats my other aliases all hollow, eh?) has discovered in his new dish is the gen-



SOPHRO-LÆLIA GRATRIXÆ.—NATURAL SIZE.



ODONTOGLOSSUM CRISPUM "RAYMOND CRAWSHAY."

eral goodness of the Genus Homo if they had all got plenty of Greens. You may call them Long Greens, Cold Greens, Hot Greens, any old kind of Greens, but Greens in plenty is the main thing! What is it that brings out the good points of mankind best? Is it not freedom from worry? And what frees man from worry like plenty of the long, cold, hot, merry, cool, charming Green? How can a man be other than crabbed and irritable when he is hunting day in and day out on a constant tension to get enough to keep the hungry kids filled up and to scare that dirty Orangeman, the sheriff, from the premises. ("V. P." supposes he absorbed that about the Orangeman from Dooley or Pat O'Mara. They say he's more of an A. P. A. than anything else. But that's ignorance. He's really a Presbyterian-Pagan and intends to found a church of that denomination as soon as he gets a little leisure and Greens). And what makes a man so happy and contented as the thought that all his bills are paid and a comfortable bunch laid by to draw on?

Then the good points of the Genus Homo come out, the father and mother, the mother-in-law and the whole menagerie of relations, near and remote, get a whack at it, the white church, the black church, the pig-tails, and the Hottentots, all come in for a share; the lame horses, the hungry cats, the dyspeptic goats, and even the Weary Willies are treated with complacency and Christian charity. His nibs goes about doing good, with a kind word and a dollar for every poor devil in a hole, and his smiling red face shines like that of the Angel of Mercy! When he comes the clouds roll by and the sun shines, the hailstones cease and coal and glass may go to blazes or the other way, who cares?

But let that same Angel of Mercy go down town some fine morning and find that the cashier at the National has gone off fishing in New Brunswick with most of his and other people's funds in the bait box and then see how quick the "A. M." will become like the rest of us—lean around the chops and showing a hungry glitter in his eyes. God help Weary Willie and Massa Brown if they run up against their erstwhile "A. M." then!

"V. P." is firmly convinced that we are

all good and all bad alike, according to the quantity of Long Green we have and that if we all had plenty of it the world would take such a stride forward in practical civilization in a few years as would startle into goggle-eyes the most unimaginative among us and forever put to shame the old Scottish homily, "contentit wi' little and eanty wi' mair," for it's really the discontented that make things happen.

So here's hoping that a better distribution of the Long Greens may take place soon so that you may all have benevolent, red, wise, angel-of-mercy faces and never look grim and hungry any more. If "V. P." can do anything to help that desirable consummation along he'll be only too glad. The first thing for us to find out is "How do some of them get too much?" It's as bad for

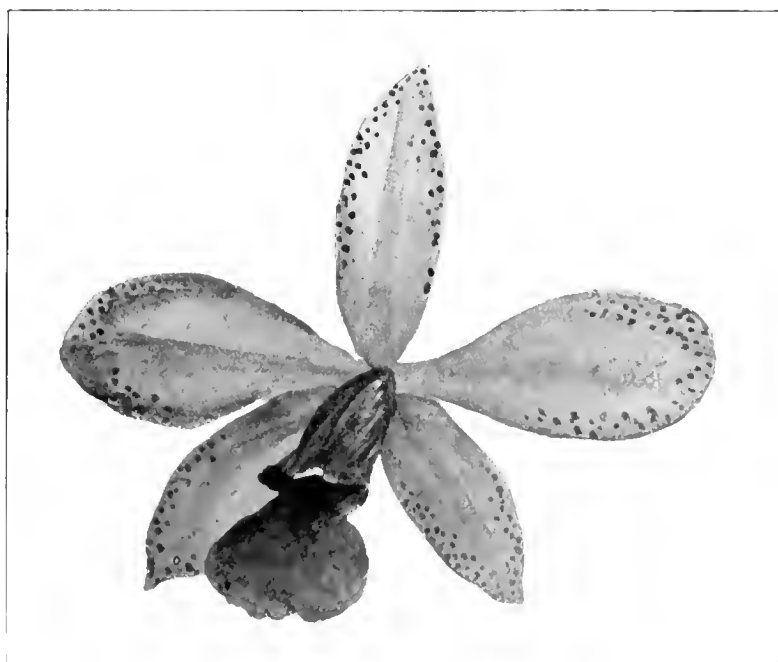
the community as the man to be drunk with riches as to be drunk with wine. For one thing, it stops that desirable distribution of the Long Green among the commonalty which has been the burden of this homily from your old friend,
GEORGE C. WATSON.

ROSES.

A WELL-KNOWN ROSE PEST.

ED. AM. FLORIST:—I am sending some rose leaves on which you will find an insect. I should like its name and a method of destroying it. It is a new pest in this section, doing a great deal of damage to roses. It is a sort of white fly and, when fully grown, will leave the bushes when disturbed, only to return again. It always works on the under side of the leaf. We have tried all common remedies without much effect. What would you suggest? H. L. D.

The insect which you send and which you state is destructive to rose leaves, is the common rose leaf-hopper (*Typhlocyba roseae*). This is a common and well-known enemy to roses, and is the cause of frequent annoyance to persons owning rose bushes when the insect occurs in great numbers. At such times it sucks out the cell contents of the leaves, imparting to the upper surfaces a peculiar white-spotted appearance. The mature insect is quite active, and is apt to return to plants when molested. This is not however, true of the nymphs, or younger stages. The young have no wings, and if driven from the plants have difficulty in returning. It follows, therefore, that the nymphs, which are also more delicate than the adults, are more easily destroyed. This is not a matter of extreme difficulty if only a few bushes are to be treated. The common yellow Persian powder, lubach or pyrethrum, is the simplest remedy, although somewhat costly. Tobacco is also of service, applied as a fine powder, or in a decoction. Kerosene emulsion will also destroy these pests. But both tobacco and kerosene preparations are objectionable on account



SOPHRO-CATTELEYA (NYDIA). NATURAL SIZE

of their odor. That of kerosene, however, is not especially persistent on growing plants. It ought not to be applied at its full strength, but in the form of an emulsion.

F. H. CHITTENDEN.

NOTES ON SEASONABLE TREATMENT.

For some time past we have been having very cloudy weather over a large portion of the country and consequently, when the bright days do come, we find the stock soft and not in the best condition to stand the heat. The plants will need to be aided as much as possible. A thorough syringing every bright morning will do much, but we may also wet down under the benches and in the walks at noon if it is a hot day. Of course, judgment should be used, for if the plants in a house are badly affected with black spot, too much moisture will prove to be more dangerous than the effects of the sun.

Advantage should be taken of all cool and rainy days. Have the fires started and force the steam through one pipe in each house. If the pipe is well painted with sulphur you will find this to do more toward checking mildew than anything else. Even if you find it necessary to leave a small amount of ventilation on you will be able to see the good results. Air-slaked lime is also very good to keep the air in a house clear and free from fungus. Blowing this through the house purifies the air and the lime which settles on the benches does a great deal toward keeping the top of the soil clean.

Notes From Cornell.

The greenhouses at the experiment station of Cornell University are but six in number, comprising an area of 8,000 feet of glass, yet the amount of material handled and produced here under the energetic management of C. E. Hunn is almost incredible. Mr. Hunn has been in charge here for the past seven years. He is also a class teacher and the author of several well-written works on horticultural topics. The houses are primarily to furnish material for practical demonstration in the teaching of horticulture. Soft-wooded plants are mostly grown and the variety includes all of the commonly cultivated commercial sorts. The last season showed an increased demand for instruction in the art of vegetable and fruit forcing under glass and the photographs reproduced herewith show what was accomplished that season with a bench of strawberries. The variety grown is Glen Mary. The plants were lifted in August, put first into 3-inch pots and afterwards into 6-inch and put through the necessary processes of slow drying off and securing well-ripened crowns, after which the pots were plunged on the bench and started gradually into growth. The net result was six to ten fruits to a plant, twenty berries making a quart. Liquid manure was given generously after the fruit had formed.

The instruction comprises a longer and a shorter course, there having been last school year about thirty-five students pursuing the former and fifty the latter

course. The studies cover such subjects as plant culture, greenhouse construction and management, literature of horticulture, pomology and landscape gardening, nursery and orchard practice, the principles of vegetable gardening, and practical work in forcing houses. The experiment station here at Cornell is under government patronage as well as state supervision. It seeks to specialize while that at Geneva generalizes. The special points of instruction are soil mixtures, potting, propagating, watering, training and pruning and fifteen acres are appropriated for an experimental farm where objective instruction is carried on.

The botanical department is separate and here are taught the fundamental principles of plant life and relationship, by lectures, laboratory practice and demonstration under six professors. The superintendent of the botanical houses is Robert Shore, well known in the profession, and with a proud record as a plantsman. His enthusiasm in his work here is recognized and is warmly seconded by his pupils. He is landscape artist for the grounds and approaches to the college buildings.

Prof. L. H. Bailey, who is director of all the horticultural departments, is a man of boundless industry and energy and his individuality pervades everything. As author of the "Cyclopedia of American Horticulture" he is widely known and as editor of *Country Life* he talks to a large and ever increasing audience. His ambition is to enlarge the scope and usefulness of the Cornell experiment station and the work done there hitherto with limited resources is the best guarantee that a larger income would be well expended.

Forcing Tomatoes and Melons.

Our earliest sowing of forcing tomatoes is made on or about July 4. Plants from our last sowing were placed in 4-inch pots in late July and were transferred to the benches about August 12. These plants will give us ripe fruit early in October and will continue to bear profitably, with proper attention, until the following May. If one wants ripe tomatoes, say by the middle of November, he should sow seed of a good forcing variety at once, transfer to boxes when of sufficient size, and if he can spare the time it will pay him to pot into 4-inch or 5-inch pots before benching. The seed can be sown outdoors and the plants grown in the open during August, but would be better under glass after September 1, as a preventive of mildew.

Tomatoes sown at once will begin to



STRAWBERRY PLANTS JUST SHIFTED INTO 6-INCH POTS AT CORNELL.

All who had their houses planted early should have the plants staked by this time, several ties to each plant. Do not allow any plants to be tied up by bunching several shoots together but tie each shoot separately; it will pay better in the end even if it does take longer.

If you have grafted stock, watch carefully for all Manetti shoots and cut them out as fast as they appear. Be careful with the disbudding. The houses should be gone through twice a week and all shoots that are sufficiently ripe should be cut back below the first eye at least. This will encourage a new break which will be stronger than if only the bud is pinched out.

It is a very good plan to go over the beds as often as the top becomes crusted or green and loosen the soil, but care should be taken not to scrape down into the roots. As soon as the roots appear near the surface this will have to be stopped.

R. L.



FORCED STRAWBERRY PLANTS IN FRUIT SEVEN WEEKS AFTER SHIFT.



STRAWBERRIES GROWN AT THE CORNELL UNIVERSITY EXPERIMENT STATION.

produce ripe fruit about the end of November. If the grower is inexperienced with tomatoes under glass, I would recommend him to restrict the root run of his plants. Four inches of earth eighteen inches wide is ample to start them in; more will induce rank growth at the expense of fruit. Occasionally light top-dressings can be given. Hand pollination from December 1 to March 1 will cause a good set. Tomatoes want a dry atmosphere and should have a minimum winter temperature of 60°; if 5° higher all the better.

Some of the prominent seedsmen carry stocks of good forcing tomatoes; the outdoor varieties are useless for winter work. Frogmore Selected and Eclipse are both excellent sorts. We are at present forcing Rochford's Forcing, not yet in commerce in America, and find it an ideal forcing tomato in all respects.

Melons as a winter crop will require much greater care than tomatoes, but given several divisions to grow them in, they may be had the whole year around. They require a higher temperature than tomatoes. The winter minimum should not go below 70°. By sowing seed now and growing it on under glass; the plants will in three weeks, or less, if the weather is very warm, be fit to plant out in the hills on the benches. Of course these plants are to be trained up the roof of the house. They do fairly well when allowed to ramble over the surface of the benches in summer, but need all light, and especially sunlight, during the short, dark days of winter. We set our plants two feet apart and allow them to carry two to three fruits each; they will seldom finish over four fruits satisfactorily.

From seed sown now one should, given the proper conditions, be able to cut melons about the middle of November. For a Christmas crop the seed would require to be sown about September 1 and forced right along without check. At this season of the year we cut melons from ten to twelve weeks from seed sowing, but fully a month longer is necessary if the fruit is required at the time named.

Owing to the prevalence of blight the last three years on standard American sorts, we have been compelled to discard such excellent melons as Paul Rose, Chris-

tiana and Rocky Ford, and now grow English varieties exclusively, such as Sutton's Scarlet, Frogmore Scarlet and Royal Favorite, the last being a white fleshed variety. We consider the Frogmore Scarlet the finest variety.

The melon blight has during the past three years been so serious that it is useless attempting to grow outdoor melons in this section and we rely entirely on those forced under glass for our supply. The American varieties appear to blight just as badly indoors as in the open, and even on the English sorts occasional traces of disease are seen. A spraying twice a week with Bordeaux mixture acts as a preventive. There are many little details in melon culture which would require quite an exhaustive article to properly explain. W. N. CRAIG.

WHITEHALL, MICH.—Thomas Denham has purchased the greenhouse property formerly conducted by C. W. Redfern.

A Californian Establishment.

The accompanying illustration is a reproduction of a photograph taken in the store of the Redondo Floral Company, at Los Angeles, Cal. The business is a department of the Redondo Improvement Company, located at Redondo Beach, where they have some 2,000 acres of land, of which thirty acres are devoted to the floral department. Fifteen acres are devoted to carnations, which bloom here all the year around, in the open. All the stock has thus far been grown in the open, but the past spring three modern greenhouses 200 feet long were erected, and an expert grower from the east engaged to see what he could do with the best varieties known to the New York and Chicago markets. Roses will also be given a trial under glass. As no one has as yet recorded a distinct success with cut flowers under glass in Southern California, the venture is more or less of an experiment but up to the present everything is promising and a success will mean that the company will add largely to its glass for next year. A. F. Borden is the manager of the company's floral department. He is now on his way east and will be at the Asheville convention of the S. A. F. He is visiting the leading growers and retailers as he progresses. His producing department is twenty miles from the store, but it is the company's own railroad that brings in the daily cut, which averages some 4,000 carnations.

Lagerstroemia Indica.

Every person who had the good fortune to be present at the convention of the S. A. F. held at Washington, D. C., in 1892, and especially those who took the trip to Mount Vernon and saw the fine specimen in full bloom of that magnificent plant, Lagerstroemia Indica, the crepe myrtle, will remember what a beautiful sight it was, and how many of us wished it was hardy enough so that it could be planted generally for outdoor decoration. It may be interesting to your readers at this time to learn that it has been known to live out all winter in the vicinity of Philadelphia. With me a plant has lived



STORE OF THE REDONDO FLORAL COMPANY, LOS ANGELES, CAL.

out for the past two winters unprotected, and is now in full bloom. It is growing in a tub, and possibly that is one reason why it has not been winter-killed, because the growth, I believe, on that account has become more thoroughly ripened.

It was quite accidental that the plant was left out the first winter. It was a "boarder," and the people who owned it moved away without settling the bill, and as I had no convenient place in which to keep it over winter, it was allowed to take its chances, with the results as above noted. It is situated where it is partly shaded from the morning sun, though it stands somewhat in the open and a short distance apart from the Norway maple and a retinospora and the residence, all of which furnish more or less shade. It is not sheltered from the northwest, the wind from that direction having practically a full sweep upon it. The first winter the growth was killed to the soil line, but new growth sprang good and strong from the base and flowered profusely the latter part of

August very satisfactorily, continuing through September.

This note is written for the purpose of encouraging the planting of this beautiful flowering shrub experimentally in a small way. Planted in a well drained spot, in soil not too rich, so that growth would not be made too late in the season for it to ripen thoroughly, and in a situation where it would be shaded from the morning sun in winter and where the temperature does not touch zero too often, it certainly ought to be worthy of a trial. We residents of Chestnut Hill are located about 425 feet above high tide, where it is much colder in winter than in the city of Philadelphia proper.

I have known three varieties of crape myrtle, a white flowered one, also a purple, and the pink variety grown here. The latter one I prefer, as its natural habit of growth is more compact, whereas the white variety is inclined to be straggling in its manner of growth, which, of course, could be helped somewhat by judicious pruning.

EDWIN LONSDALE.

Spraying Milwaukee Trees.

ED. AM. FLORIST:—I note in a recent issue that insects are making havoc with the shade trees in Milwaukee and that spraying is being practiced extensively. We are having the same trouble and if your correspondent will give the ingredients of his effective antidote I shall appreciate it.

PULLMAN.

The accompanying illustrations show something of the extent to which many Milwaukee trees are infested with insect enemies, the principal of which are the cottony cushion scale, elm leaf beetle, elm bark louse and tussock moth. I have found a spraying mixture of one pound Paris green and one pound quick lime to 200 gallons of water very good in dealing with the elm leaf beetle and kerosene emulsion serves for the other pests. The apparatus employed (shown at work in one of the illustrations) is that supplied by Morrill & Morley and I have found it very satisfactory.

C. B. W.

Park and Outdoor Art Association.

The following are the officers elected at the meeting at Boston last week:

President, Clinton R. Woodruff, Philadelphia; vice-presidents, W. Ormiston Roy, Montreal; Dick J. Crosby, Washington; Warren H. Manning, Boston; secretary, Charles M. Robinson, Rochester, N. V.; treasurer, O. C. Simonds, Chicago; committee on checking abuses of public advertising, F. L. Olmsted, Brookline; Mrs. W. F. Grower, Chicago; Mrs. Lovell White, San Francisco; Joseph Lee, Boston; committee on local improvement, W. J. Stevens, St. Louis; Dr. D. R. Burrill, Canandaigua; Miss Myra L. Dock, Harrisburg; Frederick W. Clark, North Billerica; auditing committee, F. W. Kelsey, New York; John C. Olmsted, Brookline; Lewis Johnson, New Orleans; publication committee, Charles M. Robinson, Rochester; Mrs. Martin Sherman, Milwaukee; G. A. Parker, Hartford; committee on park census, G. A. Parker, Hartford; John C. Olmsted, Brookline; Lewis Johnson, New Orleans; committee on school grounds, Dick J. Crosby, Washington; Mrs. Mary M. Kehew, Boston; H. D. Hemenway, Hartford; J. W. Spencer, Ithaca.

Herbaceous Plant Notes.

The ordinary *Coreopsis lanceolata* is not a continuous bloomer, neither is it a very reliable perennial, for the plants usually perish for one reason or another after their second year. Instead of it we always employ either *C. grandiflora* or the variety *monstrosa*, both of which are at least as good, if not superior to the best type of *C. lanceolata*. Neither of these two will ever act like the biennials. Each begins to bloom in early June and is sure to keep up a continuous succession until late fall. By removing the old flower heads occasionally, not allowing seeds to ripen, we may greatly assist the plants in their efforts to develop flowers of best quality as well as in quantity.

A few years ago we planted a patch of these *coreopsis*es intermixed with the blue *Scabiosa caucasica*, which grows about the same height, and that patch has been an attraction ever since, though no work or special care has been put on it except the annual spring cleaning and forking over. Apparently it is good for several seasons to come and for a permanent bed this combination seems to be a decided success.

We have also tried *platycodon*s with



INSECTS ON MILWAUKEE TREES
(Showing the sprayers at work).

the coreopsis. They are of a deeper shade of blue and very effective for about two months, but when they cease blooming the bed has a ragged, uneven appearance and does not recover a pleasant look until late in fall, when a second crop of flowers appears on the platycodons. Speaking of these, I may say here that *P. Mariesii*, in its true dwarf form, is a most charming plant, but we rarely see this form. Nearly all I have come across are taller and longer-jointed than they should be, some of them very near the height of the ordinary *P. grandiflora*. In the true variety the joints are very short, the stems thickly furnished with foliage, the growth very compact and stiff, not over nine inches in height, the bells widely open, broad saucer-shaped. We have never raised seedlings which retained the dwarfness of the original plants which were imported shortly after its introduction, in 1884 or 1885.

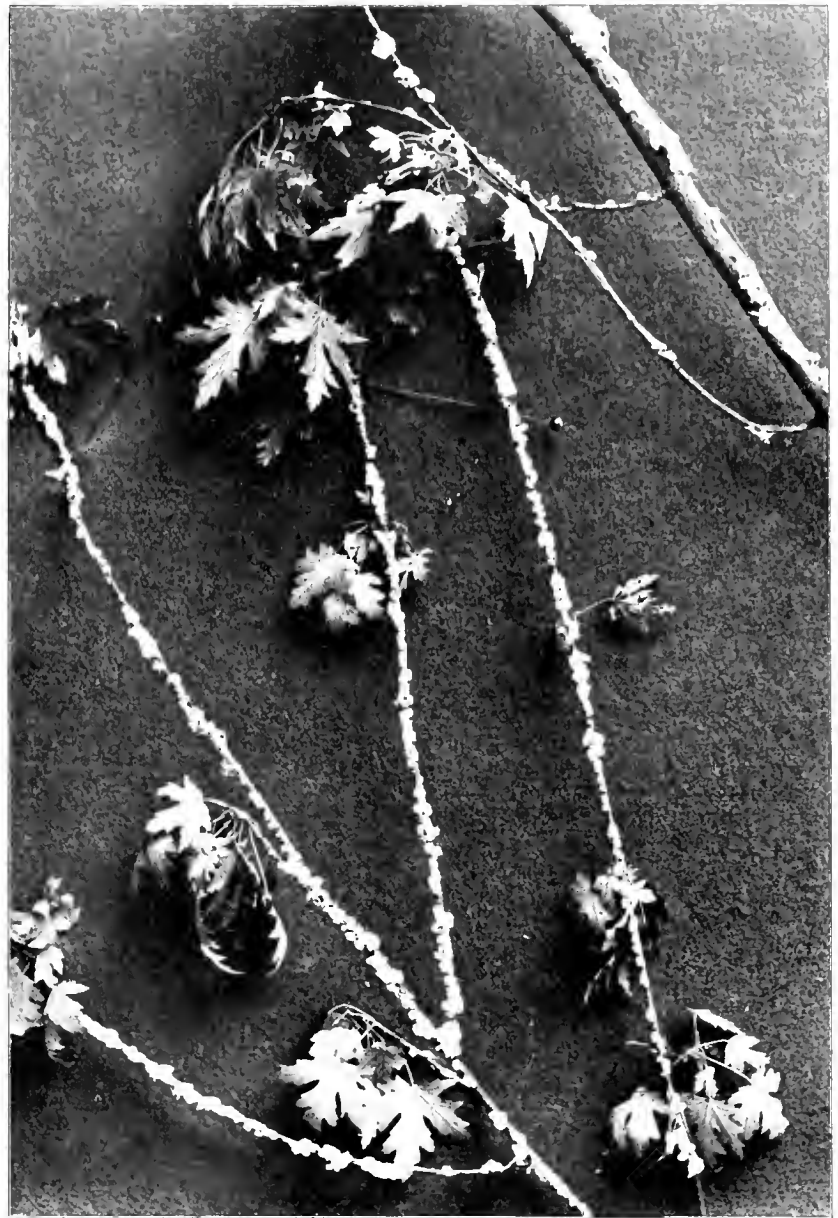
All the rudbeckias are now out in full blast. The deep yellow of their long petals shines brighter in the reflecting glass of dark brown, cone-like disks. *Echinacea purpurea*, with its purplish pink flowers, is a good companion to mix in with them. A neglected plant worth growing in a mixed border or in front of shrubbery, and also a very useful cut flower, is the *sidalcea*, a malvaceous plant resembling a miniature hollyhock, with slender, erect stems two and one-half to three feet high and exceedingly floriferous and lasting. *S. malvaeflora atropurpurea* is usually a few inches taller than the pure white *S. candida*. Both are desirable and succeed in almost any soil or situation. They are true perennials and do not require replanting like the hollyhocks in front of evergreens or tall shrubs.

Stokesia cyanea has been in bloom for about two weeks. Its large purple flowers are always in demand, and as the plant will continue to flower winter-ruptedly until late fall every florist should endeavor to keep up a stock for cutting purposes. Once planted they can remain undisturbed for an indefinite time. An old clump will produce a hundred or more flowers annually, and if the flowers are not needed one week they will not spoil the plants, for, like asters, they are just as good next week. In borders or beds, in large or small places, wherever planted, everybody likes it, for it is a clean, neat, compact, free blooming plant and as hardy as our native oak trees in the woods. J. B. K.

Mushroom Culture.

There would appear to be something of a fascination in mushroom culture, judging from the number of novices who annually essay to raise a few. Large numbers of people, not those who are mushroom growers, believe that "toad-stool" culture is a veritable Klondike to the happy man or woman engaged in it. It is certainly true that sometimes the mushroom grower succeeds in "hitting it just right" with good crops and remunerative prices, but a far larger number have failures to mourn and, while there may be a fair profit for the careful and painstaking grower, the business is very uncertain and is likely to remain something of a lottery.

We start to collect fresh horse manure—that from grain-fed horses is the best—early in September and continue to do so for some ten weeks. When received it is placed in an open shed or a position where it can be protected from heavy rains. The rough straw is shaken out



INSECT PESTS ON MILWAUKEE TREES.
(Showing scales on the branches.)

of the manure and the pile added to until there is sufficient to spawn a good bed. It is turned over daily to allow the escape of rank steam and until danger of burning is over. Two or three days before spawning we mix one-third as much loam, screened through a coarse sieve, as there is manure. We have better success with adding loam than when we use pure manure. Should the manure be dry, we wet it slightly with the hose. Dry manure will never produce good mushrooms.

The beds may be made either flat or slanting. If the former, a uniform depth of nine inches of manure is desirable; if the latter, the depth for a bed three to three and one-half feet wide maybe fourteen inches at the back and five inches at the front. We have had equally good success with both systems. The manure is placed in layers and pounded as hard as possible with a wooden mallet or brick. Probably hard tramping with the feet would answer as well, but it is not usually possible to use the feet where the beds are made. It is very important to

firm the bed thoroughly; this will guarantee a steady and more lasting heat, and of course more mushrooms. After the temperature of the bed has declined to 90° we insert the spawn, which is broken into pieces the size of an English walnut and planted six inches apart each way at a depth of two to three inches. We use English milltrack spawn exclusively. We have tried French spawn, also some of American manufacture, but neither equaled the English.

Eight or ten days after spawning we spread two inches of fine loam, screened through a half-inch sieve, over the bed. Old soil from the benches or pasture will answer. This is beaten firmly and a little hay or straw placed over the bed to prevent it from drying out. The time which will elapse before mushrooms appear is as gloriously uncertain as the weather. We have seen them peeping in a little over three weeks, and two years ago one of our beds started to produce a fine crop just sixteen weeks after spawning. A person does not want to be of a

too highly strung nervous temperament with mushrooms or he may throw a bed out just when it is about to bear. On an average six weeks will elapse before buttons appear.

Not having a special mushroom house, we make our beds under the benches in violet, tomato or other houses. A temperature of 60° is very suitable, but we find they yield well in one 10° lower. Beds should be kept as dark as possible, and all sunlight excluded. They should never be placed near furnaces, or in other dry localities, or returns will be discouraging. When the surface of the bed dries we give water through a coarse rosecan, at a temperature of 90° to 100°; this helps to warm the bed and promotes production. Any caves, cellars or sheds where a temperature of 55° to 60° can be maintained, and the atmosphere is not too dry, are suitable for mushroom culture. Beds should continue to bear for three to four months. If they become partially exhausted it is a good plan to give a top dressing of an inch of new loam, water with warm water and cover with straw. A second crop will usually appear in a few days.

Cockroaches are sometimes destructive; they may be caught in quantity by sinking one or two jars half filled with molasses in the beds, or a mixture of one part white arsenic, one part powdered sugar and five parts lard will work effectively. Wood lice may be poisoned in the same way or by smearing the poison on pieces of potato or other vegetable roots.

The beginner in mushroom culture should be careful to procure fresh imported spawn from a reliable firm. All the pains of making a bed goes for naught if the spawn is old. Do not let him, however, spawn a dry, wet or cold bed and then blame the seedsman if results are nil. We think there is a lot of fun in mushroom culture. Last year from 175 feet run of beds we had no failures, but the uncertainty of the crop is proverbial and let no one be discouraged by a single bed failing; a second attempt will probably prove successful, and very often the beginners succeed where old tried hands fail. W. N. CRAIG.

A Dangerous Cucumber Disease.

During the past two or three years a peculiar fungus disease has made its appearance in the cucumber houses of some large English market growers, around Worthing and London. Quite recently I saw about a dozen large houses, each nearly 300 feet long and about thirty feet wide, which presented a most extraordinary appearance. They were filled with cucumber plants and were bearing a fairly heavy crop of fruits in all stages of development. The leaves, however, had none of that beautiful soft and fresh green peculiar to healthy plants. On the contrary, many of them hung from the stems like limp, dirty brown rags, while others less advanced towards decay were covered with large blotches of brown and silver. The leaves which had just been attacked showed small greyish-brown spots at first and, soon afterwards, around each spot was developed a gradually increasing area which was silvery in appearance and almost translucent. It looked like a piece of tightly-stretched parchment inserted in the green tissue. This disease is probably that known in America as melon leaf spot or perhaps the mildew that attacks cucumbers, melons and other cucurbitaceous plants from time to time.

The question of prevention is rather a difficult one. The grower of the afflicted plants told me that he found the disease was checked by keeping the atmosphere dry and ceasing to use the syringe. By adopting this means, however, it was simply a case of out of the frying pan into the fire, because, although a dry atmosphere checked the fungus, it brought about a condition that was favorable to the appearance of that other cucumber pest, the red spider. Under the circumstances spraying with Bordeaux mixture or any other poisonous compound was out of the question, owing to the crop of fruit that was borne at the time. It would have been most dangerous at least to have marketed produce which had been recently sprayed. The grower took the only sensible course, in my opinion, under the circumstances. He cleared all the houses out and burned the



INSECT PESTS ON MILWAUKEE TREES.

(Showing abandoned nests of insects—enlarged).

plants so that the spores of the fungus should spread as little as possible.

One of the principal difficulties in battling with this disease seems to be that it does not make its appearance until the plants are well established and bearing large crops of fruit. If it were noticed when the plants were very young, or soon after being planted, it is probable that a few sprayings with Bordeaux mixture would be an excellent preventive. As the matter stands at present, the fungus threatens one of the largest industries among growers in Great Britain and should it get the upper hand, cucumber growing will sooner or later become a thing of the past in the British Isles. W.

Trouble With Cauliflower.

ED. AM. FLORIST:—I started Early Erfurt cauliflower seed in the hotbed early in March, transplanted in the hotbed after the plants had formed leaves and again transplanted them, this time into the garden, early in May. The plants were not more than ten inches

high when they headed, the flowers being from the size of a lemon to that of a good sized orange. Can you explain why the plants did not grow to a height of two feet and the heads weigh from five to seven pounds? I gave them plenty of liquid fertilizer. I had the same trouble last year with the early crop but had good success with the fall plants. Could it have been caused by transplanting twice? J. B.

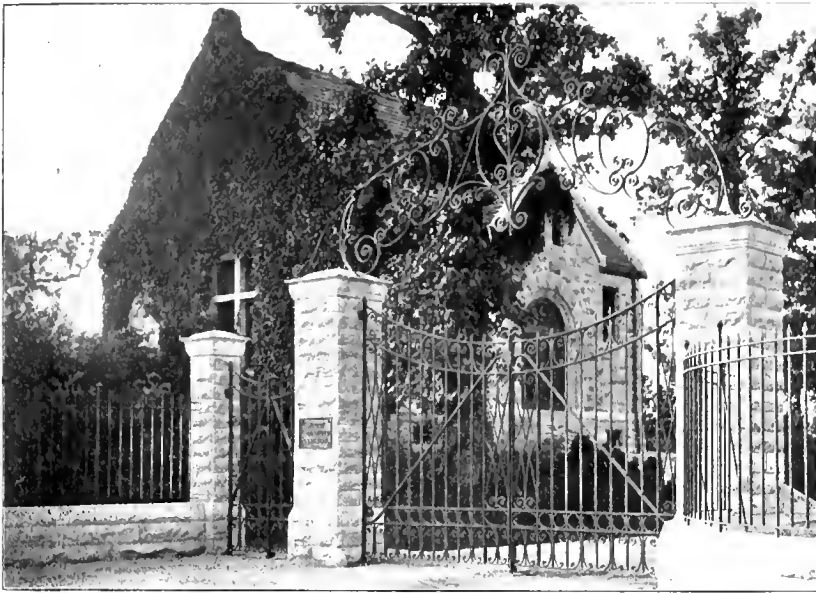
I am not at all surprised at the correspondent's lack of success with his spring sown cauliflowers. We have never had any good heads from sowings made in March. This vegetable, perhaps more than any other, requires plenty of moisture at the root during the whole growing season. Good drainage and an absence of excessive sun heat are essential to success. In Massachusetts we had a very dry month in May, and the first half of June was also much drier than usual. Given these conditions the crop could hardly fail to be an unsatisfactory one. Applications of liquid fertilizer, unless the ground was damp and the plants making satisfactory growth, would not be of much benefit.

We have excellent success with Early Erfurt cauliflower sown in a cool greenhouse about January 1. When large enough to handle they are pricked out into boxes and from there again are transferred to 4-inch pots. In March they are planted out in frames in rich compost, eighteen plants being allowed to a 6x3 sash. The lights are left on until the plants start to grow. About April 1 they are removed entirely unless a sharp frost necessitates their being put on. The plants are kept well soaked with water, and liquid manure is freely given when growth is vigorous. We never fail to cut fine heads from these plants, commencing in April and lasting until the beginning of June, although they do not average five to seven pounds weight. A sowing made a month later and similarly treated gives us plenty of cauliflower until June 20, and after that date they are not required before fall.

I would recommend this method of culture for an early crop. I do not believe one will have much success unless he can keep the plants thoroughly watered, and this is difficult in the open ground, while in the limited space in a frame they can easily be soaked with the hose, and furthermore plants produced in this way are vastly superior in flavor to any which can be raised in the garden. The reason that late sown cauliflowers are usually a success is that the cool nights, heavy dews and decreasing sun heat make conditions more conducive to their growth. W. N. CRAIG.

Aucubas in Pots.

The green-leaved varieties appear to be the ones most prolific in bearing berries and handsome little bushes can be produced in 5-inch and 6-inch pots, literally laden with the bright crimson, holly-like fruits. They can, of course, be secured in larger pots, but the sizes mentioned seem to be most useful for conservatory decoration during the winter months. The plants are six inches to twelve inches in height and can be brought to the berry-bearing stage in twelve to eighteen months. The female plants, of course, are the only ones that can be used for this purpose and it is necessary to resort to artificial fertilization with the pollen from a male plant to ensure a big crop of berries. W.



CEMETERY OFFICE, MT. GREENWOOD, ILL., GABLE COVERED WITH AMPELOPSIS QUINQUEFOLIA, VAR. ENGELMANNI.

Ampelopsis Veitchi.

ED. AM. FLORIST:—My comments on *Ampelopsis Veitchi* in the AMERICAN FLORIST of July 26, page 926, have been criticised, I am informed, in another publication. I wish to state that this plant can be seen growing in all parts of Milwaukee. A stranger would be inclined to think that the citizens had just awakened to the value of the vine because none of those he may notice are large, but if he takes the trouble to look closely he will find that almost every house on the most fashionable streets has marks of where the dead tendrils have been rubbed off, the owners—after three or four efforts, and wasting from ten to twelve years of time—having either concluded to go without the clinging vine or plant *A. quinquefolia*, var. *Engelmanni*. But so many, like "Bison," know nothing about this variety. *A. Veitchi* does better on north or east exposures than on south or west, but it is a failure on all sides. *A. Engelmanni* has proven much superior to it and, as stated in my former note, much more satisfactory. Florists with local experience only and little nursery stock should beware of rushing too freely into print at space rates, with statements or recommendations for our northern cities without some actual knowledge and practical experience under different climatic conditions from those of their own backyard.

C. B. W.

Under most conditions, *Ampelopsis Veitchi* is hardy in Chicago and vicinity. Still no specimens can be seen equal to many in Buffalo or Boston, showing that the vine is not entirely contented. Young vines often freeze back to the ground and should therefore be protected for a few years with straw. After the vines assume a thickness of a quarter of an inch or more, it will stand the winters, although some of the new wood at the extreme tip may freeze. The proper name for the vine in question is *A. trienspidata*. *A. quinquefolia*, var., *Engelmanni*, a form of the native Virginia creeper, will cling to walls and seems hardy beyond question.

W. C. EGAN.

This ampelopsis may be hardy in Chicago but I know of but few good

specimens and those grown under most favorable conditions. After struggling with it for years we gave it up as a bad job. We find *Ampelopsis Engelmanni*(?) eminently satisfactory. It is absolutely hardy, is a most vigorous grower, clings well to stone or brick and its leaves are quite pubescent, which seems to repel the attack of red spider, a pest which sadly defaces the ordinary twining form of *Ampelopsis quinquefolia*. The illustration herewith shows the growth three years after planting. This vine, which is sometimes stated to be a varietal form of *Ampelopsis quinquefolia*, is a native here, although not common, and it comes true from seed.

W. N. RUDD.

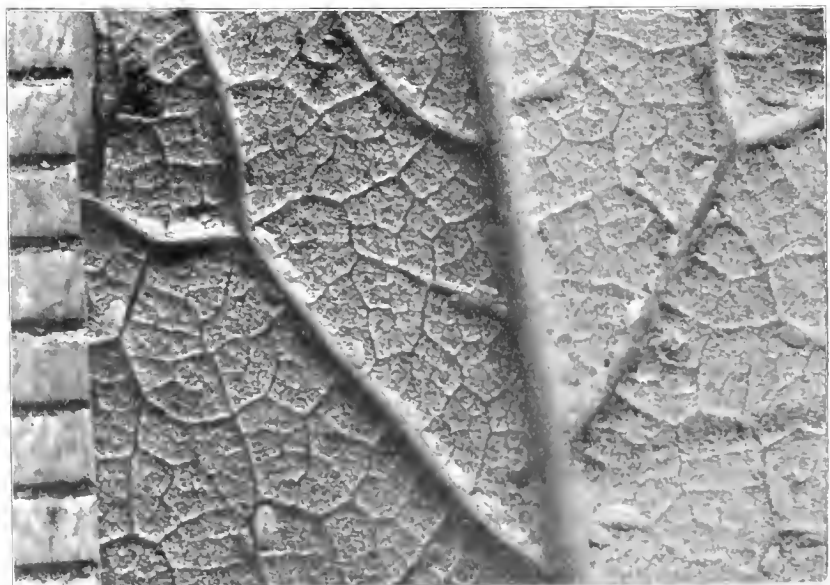
The Virginia Creeper.

The fact that in the northwest the Virginia creeper, commonly known as *Ampelopsis quinquefolia*, is almost the only hardy climber suitable for use on

buildings, makes it important to recognize differences that may exist in it as affecting its adaptability to this use. It has long been recognized as a disadvantage that windstorms are very likely to dislocate the vine when planted against houses, unless the precaution had been taken to fasten it by the use of loops of leather or in some similar way. For some years past, however, dealers have offered and recommended the use of a form of the Virginia creeper that is said not to require this artificial support, since it produces disks like those of the Japanese ivy, *Ampelopsis trienspidata*, in sufficient quantity to attach it closely and firmly, even to walls, which is not true of the ordinary form, the tendrils of which are more like those of the grape, coiling if given the support of chicken netting and the like, but producing few or no disks for attachment to flat surfaces.

The formation of such disks is one of the characters of the genus *ampelopsis*, which Michaux formed for the reception of this plant, that had previously been placed in the genus *vitis*, and that the latest monographer of the vitaceae as a whole, Planchon, puts in the genus *parthenocissus*, which also includes the Japanese ivy and a few other Asiatic species. Just what the distribution of the diskless form is, is not easy to say. The earlier descriptions, which were based on eastern rather than western specimens, in the main, mostly note the disks, without going into details as to their abundance. About St. Louis, the impression of field observers is that the plant always clings to tree trunks very readily, and is abundantly furnished with disks, and an examination of the thousands of vines of this species growing in the Missouri Botanical Garden, mostly collected within a relatively short distance of the city, shows it to be the only form that we have in cultivation. In Tower Grove Park are growing a number of purchased plants of *Ampelopsis Engelmanni*, which are not very noticeably different from the native form, and equally, but no more, firmly attached to their supports.

It appears from the records of several persons who have observed the difference in disk-production in the plant as cultivated, that the diskless plant has been most commonly sold as *Ampelopsis quin-*



INSECT PESTS ON MILWAUKEE TREES.

(Showing scales on the under side of leaf, much enlarged.)

quifolia, doubtless because it was in stock and used for propagation, and it has been assumed frequently that it really represents the typical form of the species. Hence it has come that the other, with abundant disks—apparently the true type of *A. quinquefolia*, as intended by the earlier writers on the species—has been designated by one or more varietal names, among them Engelmanni. In 1893, however, Professor Knerr, of Kansas, rightly recognizing the disk-bearing form as true *A. quinquefolia*, gave the name *vitacea* to the other, with grape-like tendrils, which Professor Britton, in his recent manual recognizes as the same as the variety to which Planchon had earlier affixed the varietal name *laciniata*.

In point of fact, from the horticulturist's point of view, it is necessary to recognize primarily two forms, one with disks, and hence adapted to use where supports are not furnished it, which is the true *Ampelopsis quinquefolia*, and another, with grape-like tendrils, rarely producing disks, and hence not so useful for house covering, which is the variety *vitacea* or *laciniata*. The latter apparently varies much less than the other, and it is to the interest of dealers to get rid of it as stock for wholesale propagation purposes, although its fruit is larger and it possesses a few other points of superiority over the typical form, which gives it a little value for amateurs who aim at variety in their collections. The disk-bearing form varies much more than the other, in thickness and pubes-

cence of foliage, abundance of the dark brown roots with which the tendrils are supplemented, and in the width of leaflets and compactness of foliage, fruit, etc., and in Bailey's cyclopedia these are sufficiently characterized by Mr. Rehder for all practical purposes. It is not evident, however, that to a prospective purchaser for ordinary use Engelmanni or any other of these varietal names is worth the payment of anything over the ordinary market price of *A. quinquefolia*, provided the dealer will give assurance that under this name he is selling only the disk-bearing form.

WM. TRELEASE.

A Handsome Design.

The accompanying illustration is from a photograph of a design made by the Guardian Angel Orphan Asylum, Chicago, for the funeral of the late Archbishop P. A. Feehan. The materials were lavender sweet peas, lily of the valley, *Asparagus plumosus* and Sprengeri, auratum lilies, swainsona, Bride and Bridesmaid roses and Boston ferns. The whole was tied with a bow and streamers of two-inch white satin ribbon bearing the inscription.

The Wreath and Its Forms.

The simplest and yet the most popular form of floral arrangement is the wreath. It can be used to voice all manner of sentiment. It crowns the victor's brow in the height of his popularity and, again,

with equal propriety, is placed upon his bier when his earthly career is closed.

When it first became the custom to send flowers to funerals in this country, wreaths were tied or wrapped to a single wire or bent willow form, and it was not until years after that the mossed wire frame foundation came into general use. Although the design is so informal, it is capable of more manipulation than any other arrangement, without losing its individuality. In order to increase its efficiency it is often elevated on a stand, the base of which is also filled with flowers or growing plants of delicate foliage.

Another effective manner of display is to place it on an easel. This permits every flower and spray of green to be seen and spread out to the most advantage, and the ribbon, if any be used, with an inscription, as is often the case in large pieces, can be much better arranged. While these accessories are very useful in adding to the importance of the piece, they take away, in a measure, its simplicity, and place it with the set design class, to which so many object.

The accompanying illustrations are of a combination of stand and wreath that just sufficiently elevates the form to show it off to the best possible advantage. The base is cone-shaped, and from its apex radiate the wires which support the design, all of which are covered with green and are practically obscured from sight. When placed on a table or rest of any kind it stands out from other pieces, and, while it is but a simple wreath, is given an individuality that is not possessed by the old style. Another form of support is one similar to the folding pillow frame. This enables the wreath to be used flat or elevated, as desired.

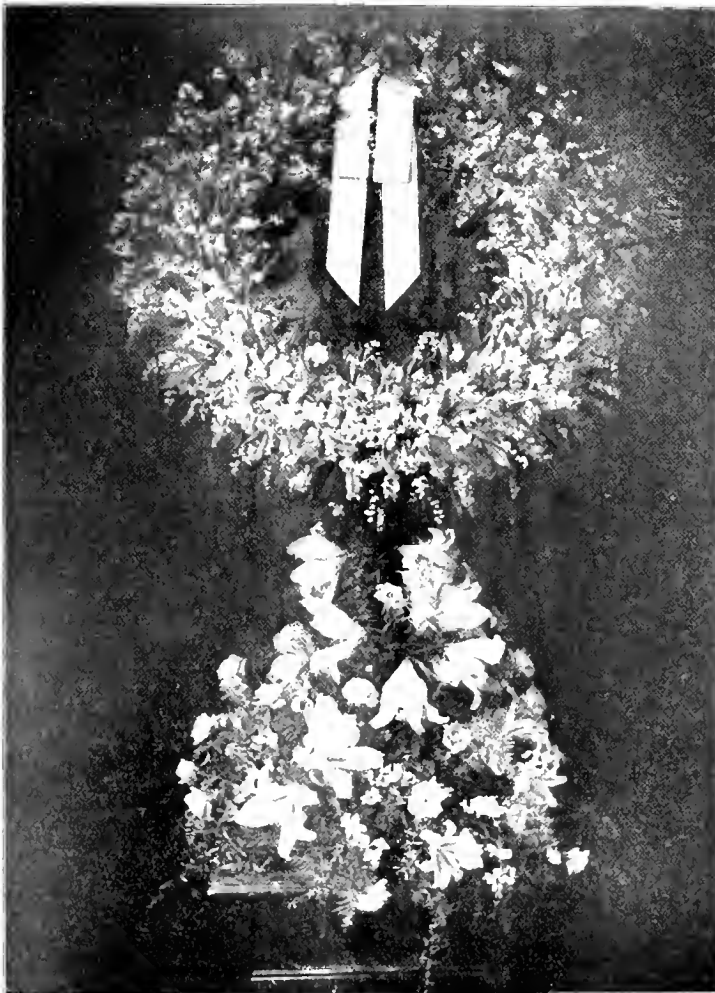
ROBERT KIET.

The Philadelphia Flower Market.

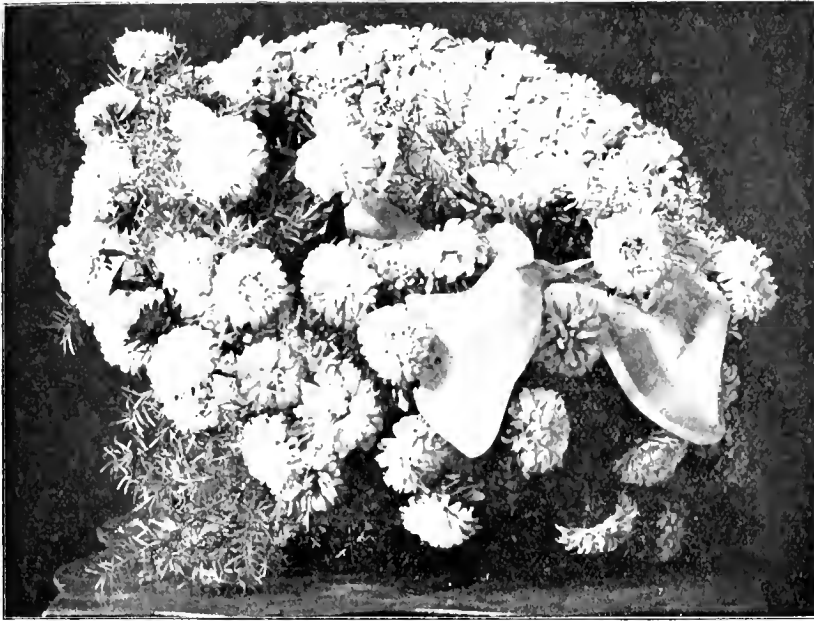
A movement to establish a flower market in Philadelphia, after slumbering some fifteen years, with an occasional waking and effort to get on its feet and accomplish something, has now been given another prod by its friends and is so aroused that one meeting has actually been held, to see if by any means enough life can be infused, or enthusiasm worked up, to bring about the desired result. One of the leaders in the necessary canvassing is a prominent wholesaler who hopes, by seeing such a center established, to break up the "peddling," although in the true meaning of the word it only applies, if then, when flowers are plentiful and not all taken by the customers on the regular daily route.

The growers who sell direct in this market live within a radius of fifteen miles of the city. Some send their stock by rail, while others drive in. The flowers reach the stores between seven and eight o'clock in the morning and the salesmen manage to get through before eleven. Fifteen years ago it would have been very much easier to have established a market of growers, as there were no commission houses worth the name. Now there are ten hustling firms, one of which, at least, handles more flowers daily than did all the growers put together at that time. As to the system of peddling, it is an established custom of the commission business in this city, as each of the houses has one and some of them two wagons which are going the rounds continually from morning until night.

E. G. Gillett, of Cincinnati in his last week's letter to the Florists' Exchange, makes statements which show that he



A STANDING WREATH OF VARIOUS FLOWERS.



WREATH BY JOSEPH KIFT & SON, PHILADELPHIA, PA.

is talking from a distance and does not understand the situation. The movement is not against the commission houses and it is not the small growers who are forward in the matter, one of the most active men being, as above said, prominent in the wholesale trade, while those associated with him are all large growers who sell their flowers direct to the stores.

The market, if established, is to be for the benefit of all, the small grower as well as the large. All who can in any way be benefited will be asked to come in and help their own interests and others by centralizing the business and thus establish a system that will benefit all branches of the trade. Flower markets that have had for their sole purpose, the bringing together of the buyers and sellers, have succeeded wherever established. In Boston the annual sale of choice of stalls brings almost enough to pay the rent of the building, which must be very gratifying to the stockholders and shows how popular it has become.

ROBERT KIFT.

Nasturtiums for Winter.

Now is the time to sow nasturtiums for climbing up the partitions in the greenhouses. One dozen plants will cover a large space. Constricted root space is necessary, however, to the production of an abundance of flowers. Therefore provide a box the length of the partitions but not wider or deeper than 6x6 inches. A few cross wires will serve for support. To those who have never grown them it will be a revelation to see the abundance of bloom a few vines will produce in this way. F. C.

A Novel Employment of Raffia.

Rafia, raffia, or raphia fiber, one of the natural vegetable products peculiar to Madagascar, has long been known as an article of European importation, chiefly employed for horticultural purposes, says Consul Hunt, of Tamatave. It is, moreover, woven on handlooms by the natives of the island into various fabrics, from

the coarsest sacking to a stuff with the wool of white silk, so fine that it is used by ladies in Europe for dress materials. Some small quantities of one variety occasionally find their way to New York, under the denomination of rabanas, a striped, colored, medium quality, forming a unique and novel tissue for draperies and curtains.

In the *Journal Officiel*, of Tamariyo, I note an interesting reference to the new experiment of employing raffia fiber for the manufacture of cigarette paper. The French firm which has taken this initiative is that of Messrs. A. & P. Duplat freres, 17 rue des Bons-Enfants, Marseilles, and samples are now in the Commercial Museum at Tamariyo. The paper presents the qualities of decided suppleness and strength, and as the fiber from the start is tasteless, inodorous and

exceedingly clean, it certainly recommends itself to the most fastidious. But I would draw the attention of paper manufacturers, always in search of new productions, to the possibilities of this fiber for other uses. These are too varied to quote, but will immediately suggest themselves to the scientific manufacturer, who might be interested in following the experiments.

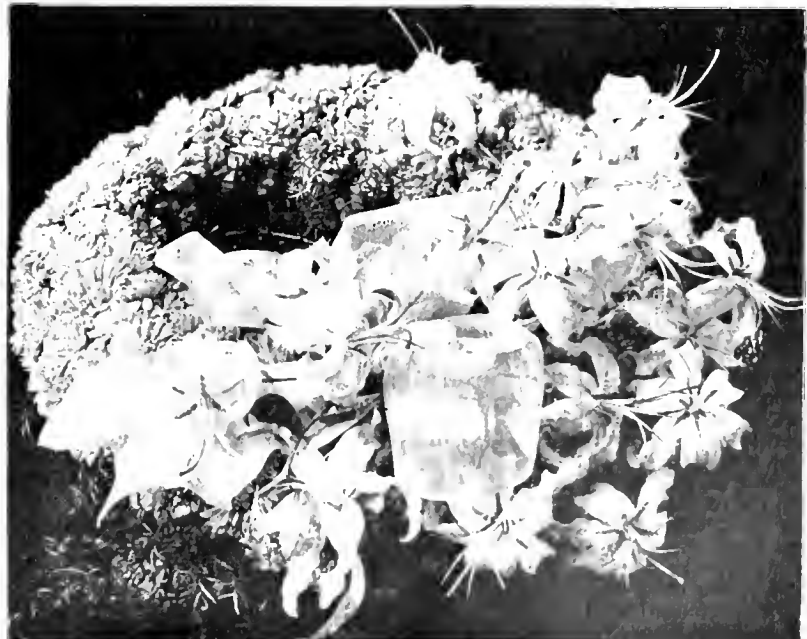
The Dutch Horticultural Society.

At the June meeting of the Dutch Horticultural Society at Overveen, near Haarlem, the floral committee awarded first class certificates to Kas & Van Ommeren, of Hees, for *Pteris Schoonhorsti*, and P. W. Voet, of Overveen, for *Eremurus robustus superba* (Himalaicus robustus). Certificates of merit were given to W. Van Veen, of Leiden, for *Delphinium formosum eclecticum*, and to C. J. Kikkert, of Haarlem, for *Odonoglossum crispum Triange*. A botanical certificate was given to P. W. Voet for *Iris Frumensis*.

Diseased Boston Ivy.

ED. AM. FLORIST:—I am enclosing a couple of leaves of a Boston ivy growing on a wall in front of my house. This is the second year that this blight has made its appearance on the vine. I have tried Bordeaux mixture but it does not appear to do any good. Can you tell what the trouble is and its remedy? J. V. S.

The leaves of Boston ivy are attacked by a parasitic fungus, the same that causes the black rot of grape vines. If the Bordeaux mixture had been properly made and applied, it is hardly possible that the disease would not have been kept well in check. As a rule fungicides are not employed soon enough for their best effects to be realized. It is very important after the disease has appeared one season for fallen leaves to be burned before the beginning of the growth of the succeeding spring. When the buds begin to open, an application of the fungicide should be made, taking care to thoroughly wet the new growth as well as the old wood. At intervals of ten or twelve days, a second and third spraying



WREATH BY JOSEPH KIFT & SON, PHILADELPHIA, PA.

should be given, to be followed by at least two additional treatments at intervals of about fifteen days. If the season is a rainy one, more applications will be required than if it is dry. The disease when appearing upon grape vines, is usually controlled by six sprayings, although eight may be needed during a rainy season. The same amount of treatment will doubtless control the disease upon Boston ivy.

Another New Nephrolepis.

The accompanying illustration is from a photograph of a new form of *Nephrolepis exaltata* which originated with H. C. Fruek, gardener to Joseph H. Berry, Grosse Point Farms, Mich., and has been named by him *Nephrolepis "Hilda Fruek."* It is said to possess all the merits of the Boston fern and several distinct characteristics.

Coming Exhibitions.

Secretaries are requested to supply any omissions from this list.

BOSTON, MASS., September 11-14, 1902.—Annual exhibition of plants and flowers, Massachusetts Horticultural Society. W. P. Rich, Sec'y, Horticultural Hall, 300 Massachusetts Avenue.

BOSTON, MASS., November 6-9, 1902.—Chrysanthemum show, Massachusetts Horticultural Society. W. P. Rich, Sec'y, Horticultural Hall, 300 Massachusetts Avenue.

CHICAGO, ILL., November 11-15, 1902.—First annual exhibition, Chrysanthemum Society of America and twelfth annual exhibition, Horticultural Society of Chicago, to be held jointly. E. A. Kanst, Assistant Secretary, 5700 Cottage Grove Avenue, Chicago.

KANSAS CITY, MO., November 3-8, 1902.—Flower show, Convention Hall Directors, Kansas City, Mo.

LENOX, MASS., October 23, 1902.—Fall exhibition, Lenox Horticultural Society. F. Herremans, Sec'y.

LOUISVILLE, KY., November 12-15, 1902.—Chrysanthemum exhibition, Business Women's League. H. Natz, superintendent, Louisville, Ky.

MADISON, N. J., November 6-7, 1902.—Seventh annual flower show, Morris County Gardeners' and Florists' Society. C. H. Atkins, Sec'y, Madison, N. J.

MARSHALL, TEX., November 13-14, 1902.—Annual flower show, East Texas Flower Association. W. L. Martin, Sec'y, Marshall, Tex.

NEW YORK, N. Y., October 30-November 8, 1902.—Annual exhibition, New York Florists' Club, John Young, Sec'y, 51 W. Twenty-eighth street.

PHILADELPHIA, PA., November 11-15, 1902.—Annual autumn exhibition, Pennsylvania Horticultural Society. David Rust, Sec'y, Horticultural Hall, Broad street below Locust, Philadelphia.

PROVIDENCE, R. I., November 13-14, 1902.—Chrysanthemum exhibition, Rhode Island Horticultural Society. C. W. Smith, Secretary, 27-29 Exchange street, Providence.

ST. PAUL, MINN., November 3-5, 1902.—Chrysanthemum and orchid exhibition, Ladies Auxiliary of the Northwestern Manufacturers' Association. Mrs. A. P. Moss, Sec'y.

TARRYTOWN, N. Y., November 11-13, 1902.—Fourth annual exhibition, Tarrytown Horticultural Society. Edw. W. Neubrand, Sec'y, Tarrytown, N. Y.

Disorged the Jujubes.

W. R. Smith, superintendent of the U. S. Botanic Garden, ex-president of the S. A. F. and the man who obtained for it its national charter, tells a good story at the expense of two of his employes: In 1876 a Frenchman, after returning home from the Centennial Exposition, in a spirit of friendship for the government of the United States, sent a bag of seeds to the Botanic Garden. Two young men, Clark and Graham, were given them to plant, but the resemblance of the seeds to jujubes was too great a temptation for them and they ate freely of them. When they came to the label they found it to read "*Chamarops humilis macrocarpa argentea*." Struck with horror and convinced that they were poisoned they took a heroic dose of hot water internally and persisted until all the supposed "jujubes" had been disorged. The first plant from that batch of seed to come into bloom is now setting fruit. Mr.

Graham is still in the garden and Mr. Clark not far away, but it is safe to say that the "jujubes" will not be disturbed when they get ripe.

Two New Hemerocallis.

I have flowered this season two new *Hemerocallis*, says a correspondent of the *Gardeners' Magazine*. The first is a cross between *H. flava* (seed parent) and *H. aurantiaca major* (pollen parent). The flower is in color about half way between its parents; in size it approaches twice the size of *flava*. It opens well, is thick in texture and stands well above the foliage. The flower stems are twice the thickness of those of *flava*, though hardly as



NEPHROLEPIS HILDA FRUEK.

tall. The foliage is intermediate. The plant, which has flowered, apparently intends to spread at the root in the same way as *flava*. The scent is that of the mother, though hardly so strong. I do not think I shall be accused of calling my geese swans if I say that it is a strikingly handsome plant. I have provisionally named it *Chrysolite*.

The second is a cross between *H. Thunbergi* (seed parent) and *H. Middendorfi* (pollen parent). In shape it seems to "feature" the father more than the mother, though the reverse is the case with the foliage. It is intermediate in color, and is rather taller than I should have expected. The scent is strong, though not unpleasing.

E. S. Beard.

Edmund S. Beard, the president-elect of the Detroit Florists' Club, was born in Detroit, June 2, 1864. He is still a bachelor and the junior member of the firm of Beard Brothers, wholesale florists, West Fort street. After leaving high school he engaged in gardening with his father and brothers on the premises yet occupied by the family. In 1889 he joined his brother Frank in partnership and added the growing of flowers and plants to their extensive vegetable gardening operations, making the growing of carnations a specialty. Their glass area now consists of about 25,000 square feet. Mr. Beard, though of a modest, retiring disposition, has a well deserved popularity, his congenial and happy nature making him many friends. He takes the keenest interest in floriculture and readily adopts the

most improved methods in plant growing and greenhouse operation. The continued advancement of the club is assured by his election to the presidency.

Chicago.

TRADE TAKES UP ALL GOOD STOCK IN SIGHT.—BEAUTIES AGAIN THE PRINCIPAL ITEM.—ROSES ONLY GOOD FOR DESIGN MAKING.—NO CARNATIONS.—ASTERS BY THE CARTLOAD.—THE SHOW.—A SLENDID UNDERGROUND COOL ROOM.—VARIOUS DOINGS OF THE GROWERS.—NOTES AND VISITORS.

The market is in a period which a farmer would say is "between hay and grass." All the old stock is out and the cut from new plants not yet anything to speak of. There are a few good Beauties coming in, New Castle supplying some of the best, but the crop is not increasing very rapidly, either in quantity or length of stem. The demand for this item is fair, large orders for out of town being not infrequent. Detroit was a good buyer this week for the funeral of Senator McMillan. The summer roses, grown for the occasion, are good and clean up well, but of Brides, Bridesmaids and Meteors there are too many, for there is nothing but the young stock, small buds on very small stems. Such flowers are hardly serviceable for other purposes than funeral work. The carnation crop is small, a very few from indoors and not many from the field, but there are asters in any quantity, quality and color desired. Probably never before were there so many asters in the market as this season. And they are selling, according to their deserts, but not so much because people want asters as because there is practically nothing else for them to use. There are large quantities of rudbeckia standing around, and occasionally a pot of golden rod, but they do not sell. Neither do gladioli, except the fancy varieties. There is a let-up in the supply of auratum, but there is still a plenty of them. The present sees little call for greens.

After six weeks steady work Kennicott Brothers Company has practically completed the remodeling of its quarters and E. E. Pieser thinks they can now handle twice as much stock with the same amount of work. The floor space has been largely increased and new tables put in, on iron legs, but these improvements have to be numbered among the minor details, with painting and so forth, for the greatest thing is the new cool room, 18x36. It is under the sidewalk and street and is solidly cemented inside, so that it is water, air and gas proof. The walls are of thick building tile, with air spaces. The firm believes that this room will increase the value of every consignment handled in it, and even a very small percentage of increase will make it a profitable investment.

Everyone is pleased with the selection of the Art Institute for the autumn flower show. It is the consensus of opinion that it is the best place in town for a financially successful exhibition. From present indications it should be in all respects the best show the Horticultural Society has ever held, re-enforced, as it will be, by the prestige of the Chrysanthemum Society of America.

Among those not previously mentioned in this column as among those who will attend the convention are Mr. and Mrs. C. W. McKellar, Mr. and Mrs. J. D. Thompson, Mr. and Mrs. J. C. Vaughan, W. N. Ruld, James Hartshorne, C. W. Scott and J. S. Wilson, also Fritz Bahr and Thomas Tuttle, Highland Park

Peter Reinberg goes to New Castle to-night to spend Sunday, expecting to meet the Asheville party at Cincinnati Monday morning. Reinberg & Weiland have some fine carnation plants at New Castle, and at the Chicago place Mr. Reinberg has a nice surplus, clean plants but not large.

A. F. Borden, manager of the Redondo Floral Company, Los Angeles, called upon the trade early in the week, incidentally booming the California city for the next S. A. F. convention. He left for the east on Tuesday and expects to go to Asheville with one of the eastern delegations.

W. A. Peterson returned Wednesday from a six weeks' trip east. He says he was on a pleasure trip, accompanied by Mrs. Peterson, but people were so anxious to buy peonias that he took a number of good sized orders.

F. Stielow, at Niles Center, is benching his carnations but says he is in no hurry. He lost a good many plants in the field. His principal sorts are White Cloud, Norway, Joost and Dorothy.

O. J. Friedman and Miss Clara Schlesinger were married on Tuesday and are now in the east on a wedding trip. The bride is a daughter of L. Schlesinger, of Schlesinger & Mayer.

J. A. Peterson, of Cincinnati, was at the Palmer House this week with fine samples of his Pandanus Veitchii, Begonia Gloire de Lorraine, fenses, kentias, arecas and field carnations.

August Lange and wife left last Wednesday for a three weeks' vacation in the east, intending to visit Pittsburg, Washington, Baltimore, Philadelphia, Atlantic City and New York.

F. J. Robinson, the veteran florist of Oak Park, died August 9. He had retired from business, the greenhouses having been dismantled some two or three months ago.

E. C. Amling is deliberating as to whether to buy stocks and bonds with his surplus cash or to put it into ferns this fall, anent the Easter shortage and high prices.

There will be a goodly party for the convention trip. At Cincinnati Monday there will be entertainment at the hands of the Cincinnati Florists' Society.

Weiland & Risch cut Ivory rose on August 7, the first noted in the market. Of course it was very short but the buyers took to it nicely.

J. B. Deamud did much the largest business in his business history last season, but he is making his plans to beat it next year.

Wietor Brothers are now cutting from nine varieties of roses. They say the La France is the best seller at the moment.

August Swanson, of St. Paul, and Frank Berry, Stillwater, Minn., will join the Chicago convention party.

Arnold Ringier, of W. W. Bernard & Co., has returned from his western trip. C. M. Dickinson says that this is a very good summer at E. H. Hunt's.

Edgar Sanders has improved slightly during the week.

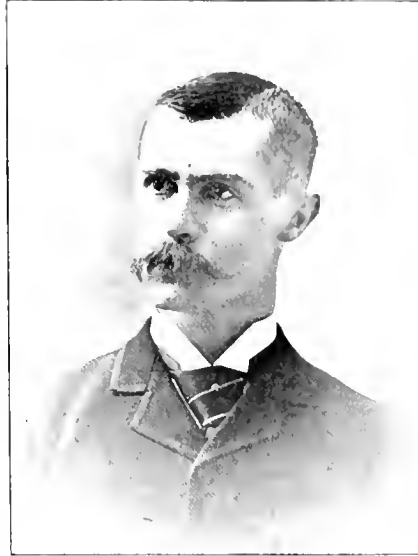
Other visitors: C. B. Whitnall, C. C. Pollworth, W. A. Kennedy, Milwaukee; A. E. Lutey, Calumet, Mich.; C. Winterich, Defiance, O.; G. E. Engel, Nenia, O.; C. C. Wonneman, Mexico, Mo.; Herbert Heller, New Castle, Ind.; J. S. Pollard, Allegheny, Pa.; H. C. Fruek, Detroit, Mich.; James Hayes, Topeka, Kan.; Samuel Murray, Kansas City.

SOUTH BEND, IND.—Trainer & Rettie are tearing down their greenhouses preparatory to rebuilding.

Philadelphia.

TRADE VERY QUIET AND PRINCIPAL CALL FOR BEAUTIES.—NEW CUT NOT ALL IDEAL BUT INCREASING EVERY DAY.—HYDRANGEAS HELP MAKE A PROFIT.—GROWERS PUT IN COOLING PLANT.—VARIETY'S LOCAL NOTES.

Things are certainly dull enough to suit the most pessimistic in or out of the business. However, we will not make it seem worse by talking about it. We believe it is the lot of the retail florist never to be supremely happy, for now that he has but little to do, that little is



EDMUND S. BEARD
(President-elect Detroit Florists' Club.)

generally a call for something that is very hard to get. Three out of every four customers want Beauties and in spite of all explanations, it is almost sure to be Beauties or nothing, and it is almost impossible to find anything worth the name. We are glad to say, however, that there are signs of a change in the near future, as several growers have commenced on the new stock and some eighteen to twenty-inch stock has been seen that was really first-class for the season. The early asters are on the wane but the Scuple's will soon succeed them and help out nicely. Hydrangea paniculata, with its great white heads, can now be had in large quantities and is a great factor in profit making, particularly when a large funeral order happens along.

The market question is still being agitated. It's a good thing; help it along. What is needed is some convincing person to see each grower who carries stock about the streets of the city and show how it will benefit him to co-operate with his fellow craftsmen in adopting an improved system of selling flowers, show him that it will put money in his pocket, both in the matter of time saved and an increased demand for his product and, if his stock grades high, a better price. Don't wait to have the matter forced on you, however, but if at all interested look up Jos. Heacock, Chas. Meehan, John Burton or other like gentlemen. Don't suppose for a minute that the buyers are not coming in; they are not going to miss the opportunity to see the stock of thirty to fifty growers each morning, no matter whether they live uptown or downtown. A nickel or

two will not stand in the way and, as the horse cars beat walking, and the trolleys put the horses out of business, so will the new way of handling flowers conquer.

The Lansdale Mushroom Company, of Lansdale, Pa., has put in a complete refrigerating plant, which is to be used for the purpose of cooling a range of mushroom houses so that a supply can be obtained all the season round. This shows an enterprise that is highly commendable and which we hope will be successful to a degree.

There is considerable building in the neighboring city of Wilmington, Del. Simons Brothers, whose specialty is carnations and who are very successful with them, are erecting four houses 24x200, in addition to their already large plant.

William J. Moore will move from his present location to 11 South Sixteenth Street. Here he will have an elegant light store with four times the room of his present quarters.

Of course the convention is uppermost in everybody's mind at present. There is to be a large delegation and all look forward to a fine trip. K.

New York.

CLUB HOLDS WELL ATTENDED AND INTERESTING SESSION.—LARGE PARTY FOR CONVENTION TRIP.—EXHIBITION PLANS.—EXHIBITS.—NOTHING DOING IN THE MARKET.—VALUES FLUCTUATE WIDELY.—NOTES.

The meeting of the New York Florists' Club held Monday evening, August 11, was fairly well attended. The chairman of the transportation committee reported that a stop-over privilege at Washington had been obtained. The matters of refreshments and badges were favorably passed on by the club. It is expected that the committee will have to look after a fairly representative delegation. Mr. O'Mara, reporting for the exhibition committee, referred to a meeting held by the committee in July, at which many pertinent questions were taken up and considered. A conference was held with a representative of the Sculpture Society, at which it transpired that the sculptors had responded to the request for exhibits to the number of 150 pieces of marble and bronze. A plan for the arrangement of the exhibition is being considered and altogether the prospect is bright for a very successful show. The amendments providing for active, associate and honorary classes of membership were adopted, also the amendments relative to the admission of members. On motion of Mr. Wallace the secretary was instructed to convey to John Burton, president of the S. A. F., the sincere condolences of the club on the loss of his son. The committee on awards reported on exhibits as follows: Certificate of merit for collection of seedling gladioli to George Burchett, Mountclair, N. J.; honorable mention to H. Beaulieu, Woodhaven, N. Y., for collection of dahlias, coleus and dill-hoeks. Arthur Cowee, Berlin, N. Y., made an exhibit of gladioli, but the committee would like to see them in better condition before giving an award.

The condition of the cut flower market is uneventful. The irregular demand for good roses is easily met, though it cannot be said that the supply is even moderately ample. American Beauty heads the list for quantity and quality, but only the longer stems figure as to price. There is more than a sufficiency of medium and short-stemmed roses of nearly all vari-

eties. These, with asters and other outdoor stock, must be disposed of, when buyers can be found, at any price. Values are shifting on almost everything, depending on the uncertain requirements of the retailers. Lily of the valley is still depressed in price. Orchids maintain their price well. *Cattleya gigas* still fetches 60 cents, *Harrisonia* 20 cents, and a few fancy cypripediums 15 cents each. *Harrisi* lilies are scarce. *Asparagus*, *smilax* and *adiantum* are in over-supply.

Thomas Young, Jr., is about to open a fine retail establishment on the northeast corner of Fifty-eighth street and Sixth avenue.

On Monday Mrs. Alex. Burns jumped from a runaway trolley car going from Woodside to Brooklyn and was seriously injured.

John Wier's son is dangerously ill with appendicitis.

Visitors: August Gaetleke and bride, Nashua, N. H.

Boston.

MARKET SHOWS LITTLE CHANGE AND NO IMPROVEMENT.—ASTERS IN OVER-SUPPLY.—THE WEEKLY EXHIBITION.—PARK VISITORS.—DEPARTMENT STORE HAS A FLOWER DAY.—DOINGS OF THOSE IN THE TRADE.—NOTES.

Last week's report on trade conditions would do very well for this week, as the present state of business remains just about as it was except that asters are coming in even more heavily, while carnations seem to be growing less in numbers daily. Beach prospects are not so rosy as they might be and the outlook for this once profitable line seems very forlorn, as already half of August has passed and the cool nights begin to whisper of September. Outdoor vegetation never looked better. Lawns are vivid green, gardens are fresh and bright and the trees have luxuriated in the abundant rains by day and heavy, cool dews by night, regardless of all the insect pests that have been terrorizing the heart of the nurseryman. It certainly has been an elegant summer for the stay-at-homes. The only complaint is that there is not enough business.

Monday, August 11, was "flower day" at Houghton & Dutton's department store. This firm has made a practice for several years of giving away on stated occasions, every three or four months, a bunch of flowers to every customer. Needless to say that the quantity of roses, carnations, peas, and so forth, used up in this manner runs high in the thousands and is a great relief to the market.

At the horticultural exhibition last Saturday J. Lawson, gardener to E. J. Mitton, exhibited nice plants of *Cattleya Dowiana* and *C. Gaskelliana*. The awards for displays of annual flowers were won by E. S. Converse and Mrs. J. L. Gardner. There were some good perennial phloxes from George Hollis, dahlia from Mrs. J. B. Lawrence and B. F. Flanders and gladioli from A. F. Schenkellberger.

Among the park visitors last week were Messrs. Wilcox, president, and Sam'l Parsons, Jr., superintendent, of the New York park department. They were given a drive through the Boston parks and playgrounds by Superintendent Pettigrew and expressed surprise and admiration at the progress being made in this department.

Next week the Association of American Cemetery Superintendents convenes in Boston, its meeting coming on the same

days as that of the S. A. F. at Asheville. Jas. H. Morton, of Mt. Hope Cemetery here, is secretary, the president being Frank Enrich, of Detroit.

J. W. Newman has moved from his old place on Brattle street to a very central and well lighted store at 37 Washington street. Quietly and without any ostentation he has been building up a good steady business in a section hitherto shunned by the retail florists.

The number of those going to Asheville from this neighborhood grows to a respectable size as the day for starting approaches. The party that will enjoy the trip the most is that conducted by Fred. Mathison via the sea route to Norfolk.

R. & J. Farquhar are showing flowers of the *Ostrich Plum* aster at their store. It is as great an advance over the best Comet aster as that was over the old-fashioned type.

Visitors: Geo. H. Thompson, Lenox, Mass.; Wm. Griffin, Thompson, Conn.; H. S. De Forest, New York.

St. Paul.

TRADE ALREADY SHOWING IMPROVEMENT.—STOCK NOT PLENTIFUL AND FUNERAL FLOWERS SCARCE.—NOTES OF DOINGS OF THE GROWERS.—VARIOUS JOTTINGS.

The end of the heated season is approaching and already trade is improving. Good stock is not plentiful, white flowers being very scarce at times. Roses are improving daily, both in quantity and quality. Carnations are scarce and poor, though some good ones are received from Joliet and Chicago. Japanese lilies are becoming quite plentiful, as well as tuberose, and are a welcome addition to the list of funeral flowers. Asters and sweet peas are now of poorer quality and smaller quantity.

P. H. Peterson, formerly with L. L. May & Company, has purchased the Campbell Greenhouses, at St. Cloud, and will conduct them in the future. There are six houses in the range, which will be moved next season onto Mr. Peterson's property, which he purchased some time since. The business will be known as the Anderson Floral Company.

This city was visited August 9 by the worst rain storm in its history. Over three inches of water fell in forty minutes. All outside stock was damaged. Carnations and other stock on side hills were washed out or badly buried in sand.

The Warrendale Greenhouses have the benches all replanted. They grow principally Brides and Bridesmaids on their own roots and claim they obtain more blooms during the winter than from grafted stock.

It is hoped that the local florists, as well as those from other places, will assist in making the flower show of the Ladies' Auxiliary a grand success and thus give the business a decided impetus.

E. F. Lemke has torn down the remainder of his old range of houses on his Hague avenue property and is building three new houses for carnations and violets.

N. C. Hansen has his new house on Dale and Maryland streets well under way. It will be 25x125 in dimensions, 16x18 lapped glass to be used.

L. L. May & Company have berched 7,000 carnation plants. They are very strong and stocky, having made an excellent growth in the field.

Chris. Hansen changed his traveling plans and is visiting Manitoba and the Canadian northwest, where he is interested in farming lands.

So far as I have learned, A. S. Swanson will be the only one to go to Asheville from this city.

Dr. R. Schiffmann, of orchid fame, is away on another trip to the Pacific coast.

A. S. Swanson is rebuilding the conservatory connected with his city store.

Herman Bunde will resume possession of his houses September 1. FELIX.

St. Louis.

BUSINESS QUIET AND A LIGHT STOCK SUFFICES.—WORLD'S FAIR GETS THE TESSON PLACE.—VARIOUS NOTES OF LOCAL DOINGS.

Stock is not as plentiful this week as last, but is enough to supply the trade, which is very quiet, outside of a few funeral orders. Roses are much improved, Brides and Kaisers being the best, although a few Meteors are very fine. Beauties are good and moving quite briskly. Carnations are very good and the fancies are bringing good prices. Asters and tuberose are doing well but gladioli move slowly. *Auratum* lilies are coming in quite plentifully of late.

The Louisiana Purchase Exposition people have signed for the Tesson tract of fifty-one acres at \$51,000 for two and one-half years, they to pay all taxes and other expenses and to return it in good condition at the end of this period. The Exposition will not get the greenhouses until the first of next May. This will give Mr. Tesson the chance to get the crop off. The place is looking very fine now.

Fred. W. Bruenig is hard at work getting his place moved across the street, beside the large Beauty house that he built last year. He is putting cement walks in and around his houses.

J. Burke has repainted his store and made several other improvements.

R. J. Mohr is now employed at the Tesson greenhouses. R. J. M.

Columbus, O.

DOINGS HERE AND THERE IN THE TRADE.—GROWERS BUSY.—GOOD STOCK.—A NEW CUT FLOWER PRODUCER TO START.

Mr. Drobish tells us that owing to a lot of repairing on his houses he will not get away much this summer. He has quite a mailing trade which necessitates the propagation of a great portion of the stock during the summer months. This, in connection with a large demand for design work, keeps Mr. Drobish at his post rather closely.

A purchase of twenty-five acres of ground in the suburbs of Columbus has been made by a newly formed company for the purpose of growing cut flowers on an extensive scale. Columbus has been a back number for a number of years, but we will get to rank among the best. All we want is a little time.

Mr. Welch, of the Seibert Floral Company, says they are doing quite a bit of repairing, but at the same time are taking good care of their general stock, which is quite promising for this winter.

Sherman Stephens has more than doubled his space for chrysanthemums and, judging from the looks of his plants, will cut some good blooms this season.

Afleck Brothers, who have been devoting their entire space to roses for the past few years, are planting part of it with carnations this season.

At this writing it is hard to tell who will attend the convention, but four are positively booked to go.

Mrs. E. M. Krauss, who has been ill for the past two weeks, is somewhat improved. CARL.

Newport, R. I.

BUSINESS NOT UP TO PREVIOUS RECORDS.—SOCIETY ACTIVE.—SOME LARGE WEDDING ORDERS.—A SUN DIAL.—VARIOUS NOTES.

Business is not up to the standard for this date. Society seems active, but florists and gardeners report business unsatisfactory. Of course some prominent weddings have taken place, the most recent on Saturday, the Thatcher-Davies affair, when All Saints' church was transformed into a fairyland of flowers, with an artistic arrangement of greens and palms as a background, the entire building, from vestibule to altar, being included in the decorator's scheme. The bride's bouquet was composed of orange blossoms and lilies of the valley. The Hodgson Company executed the floral work, both at the church and residence.

A somewhat novel and unique horticultural adornment has just been added to the beautiful grounds attached to the summer residence of Mrs. Burke-Roche, in the way of a sun dial sixteen feet in diameter. A yew tree nine feet high is the style by which the sun's shadow is cast on the dial. On a white gravel base are the figures and circle made of common box, usually cultivated for edging. Arranged in a half circle at the front and separated from the dial, and also made of box, appears a French legend, the interpretation of which is "Happy hours are not counted." J. C. McLeish, Jr., is the gardener.

Robert McLeod, for about twenty-five years gardener for ex-Mayor Fearing and also well known as an exhibitor in Boston, resigned that position and now acts as landscape gardener and overseer for Reginald Vanderbilt, on the large farm recently purchased by the latter in the suburbs.

As in former seasons, the Bellevue avenue stores consist of Gibson Brothers, Fadden, Siebrecht & Son, Wadley & Smythe and the J. M. Hodgson Company, each of whom makes a daily exhibit pleasing to passers-by.

J. C. McLeish, who, by the way, is also Newport's efficient street commissioner, reports an excellent high grade crop of peaches, grapes and nectarines, with little difficulty in disposing of same.

The stock in trade of James Gohm, for many years in the seed and farm implement business, is advertised for sale by the sheriff on August 18.

C. D. Stark, Jr., has taken the so called Findlay Greenhouses and advertises fine peaches, grapes and nectarines and reports a good market. C. J. M.

Toronto.

TWO HOLIDAYS BREAK IN ON THE BUSINESS OF THE WEEK.—CANADIAN SOCIETY ASSURED OF SUCCESSFUL MEETING.—VARIOUS LOCAL NOTES.

Last week we had two holidays, Monday and Saturday, to break into the usual routine and, consequently, there was little done on those days. The balance of the week was fairly good, but with a scarcity of roses it was hard to catch up. This city, always known for its good roses, was never more likely to lose its reputation than at present. Most crops are off and the few blooms are decidedly small, with much mildew. Carnations are neither plentiful nor good, but with a large supply of good asters they are not much in demand. Wet weather and cool nights have been very beneficial to dahlias and gladioli, but, as they are mostly dark colored, they are as yet not much in demand.

The fifth annual convention of the Canadian Horticultural Association, to be held in Hamilton, September 3 and 4, is expected to be the banner meeting of the association. Toronto boys will turn out in full force and the cheap rates which are to be run to Toronto for the exhibition will enable all outside visitors to reach here cheaply. A good time is promised to all who find it convenient to help join in this auspicious occasion.

W. Waters has been to Brampton for a few days and enjoyed his trip thoroughly. At present he is bringing in some fine white and mauve centaurea.

George Hollis is bringing in some fine double helianthus, which are very salable.

A few long stemmed Beauties are coming in from Manton Brothers.

Walter Muston, of North Toronto, is off on a trip to Winnipeg. H. G. D.

Kansas City.

PLANS FOR UNIQUE FEATURES FOR FLOWER SHOW.—ENTERPRISE OF INTEREST TO OTHER EXHIBITION MANAGERS.—TO CLOSE WITH A FREE DAY AND A BALL.

Last year the flower show managers went to Japan for decoration ideas. This year they are going to stay at home. The display in Convention Hall will be called an all-American flower show. At the entrance to the hall there will be two large pyramids, each twenty-five feet high, and composed of 500 scarlet salvias. After passing through this entrance the spectator will find himself in an exact reproduction of the garden that now surrounds the old home of George Washington at Mount Vernon. In the dim distance, away to the rear of the hall, will be a large painting, 100 feet long, of the White House.

The garden at the old home of Washington is full of old-fashioned flowers and these plants will be shown in Kansas City's reproduction. "We are now growing these flowers and we have two greenhouses full of them," said Mr. Taggart to a reporter. "These plans have been in progress for months and long ago we took the necessary steps toward securing the very flowers that we wanted for this great feature of the flower show of 1902.

"To carry out the 'All-American' effect all the society women taking part in the flower show will be dressed in colonial costumes. These same costumes will be in evidence at the flower show ball on the Monday night following the closing of the regular exhibit."

One of the distinctly unique features of this year's show will be a bird exhibit. Special prizes will be offered in this class. Effort will be made to have between 1,000 and 2,000 song birds of all kinds on exhibit in the big hall.

The formal opening of the show will be held Monday afternoon, November 3, from 2 to 5 o'clock. For the remainder of the week the hall will be open from 10:30 a. m. to 5 p. m., and from 7:30 to 11 p. m., daily. The show proper will run from Monday till Saturday, inclusive. On the Sunday following the directors, through the Provident Association, the Salvation Army and other charitable organizations, will give tickets to the show to all deserving persons who wish to see it. On Monday night following, the first annual flower show ball will be given in Convention Hall.

The season tickets this year will be sold in pairs, at \$5 per pair, and every purchaser of two season tickets will be entitled to a ticket to the flower show ball, admitting one lady and gentleman.

Washington.

FLORISTS ACTIVE IN CLUB MATTERS.—WANT THE NEXT YEAR'S CONVENTION.—REFRESHMENTS ENROUTE TO ASHEVILLE.

The Florists' Club meetings have been well attended lately and quite a number of new names added to its roll. On August 7 there was a special meeting, with J. R. Freeman in the chair, to take action on the personal property tax question, on growing stock, claimed by the assessors to be assessable under an act of congress at its last session. It was decided to pass in an estimate on pot plants only. At the last meeting it was proposed to provide a dinner or refreshments for the delegates passing through Washington enroute to Asheville. A committee was appointed to make the necessary arrangements. A proposition was made and unanimously adopted to invite the Society of American Florists to hold its next convention in Washington.

Albert C. Shaffer, of Laurel, Md., has leased Wm. H. King's greenhouses and place at North Langdon, lately occupied by Z. D. Blackistone. He will grow cut flowers and bedding plants.

Robert Bowdler is building a range of five houses 20x80 running east and west, in place of some small houses running north and south. His carnations in the field are in fine shape.

Wm. F. Gude has been elected president of the Business Men's Association. The Times recently printed his portrait and a sketch of his life. He is prominent in many societies.

J. and C. Norton, of Brightwood, have built a house for carnations 16x96, also a propagating house 20x25.

George C. Smith and John Davidson, with A. Gude & Bro., have returned from their vacations.

Charles W. Wolf, with J. D. Blackistone, is taking his vacation. P. G.

Catalogues Received.

J. M. Thorburn & Co., New York, wholesale list of bulbs; Schlegel & Fottler Company, Boston, wholesale list of bulbs; Rice Brothers, Minneapolis, florists' supplies; Peter Henderson & Company, New York, plants, seeds and requisites; Cedar Hill Nursery and Orchard Company, Winchester, Tenn., nursery stock; Wm. Elliott & Sons, New York, wholesale list of bulbs; Henry F. Michel, Philadelphia, bulbs; A. N. Pierson, Cromwell, Conn., palms and ferns; Chas. D. Ball, Holmesburg, Philadelphia, Pa., palms and decorative plants; Uerto Hillebrand, Pallanza, Italy, bulbs and seeds; Wm. Baylor Hartland, Cork, Ireland, bulbs; Haaslach & Roumanille, St. Remy-de-Provence, France, seeds; Gt. Van Waveren & Kruijff, Sussenheim, Holland, bulbs; W. Keessen, Jr., & Zonen, Aalsmeer, near Amsterdam, Holland, nursery stock; Martin Grashoff, Quedlinburg, Germany, Waldersee aster; Ant. Van Velsen & Company, Haarlem, Holland, bulbs; Alex. Dickson & Sons, Newtownards, Ireland, new roses; M. Herb, Naples, Italy, bulbs; E. H. Kreege & Son, Haarlem, Holland, bulbs; Dammann & Company, San Giovanni a Teduccio, near Naples, Italy, seeds and bulbs; Rippley Hardware Company, Grafton, Ill., sprayers, insecticides, etc.; Harlan P. Kelsey, Boston, hardy native plants; Giblin & Company, Utica, N. Y., heating apparatus; Walker & Pratt Manufacturing Company, Boston, boilers; American Blower Company, Detroit, blowers, etc.; John Lucas & Company, Philadelphia, paint.

THE AMERICAN FLORIST

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ASHEVILLE.

SOME of the new petunias are remarkably effective in funeral work.

No greenhouse owner can afford to be without both hail and fire insurance.

EASTER of 1903 falls on April 12, practically two weeks later than last spring.

SEVERAL large growers of rose plants complain that Meteor has been a slow seller this season.

ANY florist can sell hardy shrubs in profitable numbers if he has a little show ground and asks for orders for the next season's planting.

WHEN autumn comes again Appleton and Eaton will rule the cut flower markets. They have been planted everywhere in immense quantities.

J. PIERPONT MORGAN has put down his name for \$5,000 toward the proposed new hall of horticulture for the Royal Horticultural Society of England.

IN building see that every piece of lumber that goes into the structure is covered with paint; mind the spots where shavings are taken off to make a joint.

THE mailing label on your paper shows when your subscription expires; when you send your renewal note that the date changes within two weeks; it will serve as your receipt.

THE fuel question is becoming a serious problem to the florists in a large portion of the country. There seems no immediate prospect for a settlement of the strike in the anthracite coal regions.

The Liberty rose is like our men of strong personality; it has its warm friends and its vindictive enemies, furthermore its friends are mostly men whose friendship is worth having.

THERE is a heavy demand for Begonia Gloire de Lorraine out of small pots, but the big growers say the stock grows slowly this year because of dampness and cold. Usually there is no trouble after the cuttings are rooted.

WHEN Peter Barr visited Cincinnati one of the growers of that city showed him a fine lot of young plants of Adiantum Farleyense. The veteran daffodil authority admired the plants but, to the amusement of his companions, inquired whether they were seedlings.

Size of Return.

ED. AM. FLORIST:—In using hot water, if the flow pipe from the boiler is 4-inch, how large should the return be where it goes into the boiler? G. & F.

The main flow and return pipe should always be of the same size. L. R. T.

Want 1903 Convention.

The 1903 convention of the S. A. F. seems to have sprung into great demand. Milwaukee has concluded that it would be welcome, Cincinnati wants it and so does Washington. Baltimore stands with open arms and Los Angeles wishes to be considered as in the field.

Hotels of Asheville.

The following Asheville hotels are recommended as desirable and convenient at rates quoted, American plan:

Table with 2 columns: Hotel Name and Rate. Battery Park, per day \$3.00 to \$4.00; Swannanoa, per day 2.50 to 3.00; Berkeley, per day 2.00 to 3.00; The Manor, per day 2.00 to 3.00; Glen Rock, per day 2.00.

Running a Dynamo Without Cost.

In a recent issue of another paper, in an article on "Business Methods for Busy Florists," I note the following: "In large places, those with 50,000 square feet or more of glass, the cost of running a dynamo for lighting purposes will amount to little or nothing outside of the lubricating oil. The exhaust steam in most plants will do the work nicely."

This is a pernicious absurdity. In twenty-four out of twenty-five large plants there is no engine to produce exhaust steam in order to run another engine to run a dynamo with. In the second place exhaust steam can not furnish pressure enough to run a high duty, high speed engine such as is required for lighting purposes. In his estimate of cost the writer neglects to include the cost of the engine. Judging from his general misinformation on the subject, it is quite likely that he imagines one might pipe the "exhaust steam" direct to the dynamo and leave out the engine altogether.

It takes steam acting through a steam engine, and lots of it, to run a dynamo, and it takes coal to make steam.

SYSTEM No. 2.

Society of American Florists.

DEPARTMENT OF PLANT REGISTRATION.

M. H. Walsh, Wood's Holl, Mass., registers Hydrangea hortensis superba, a cross between the varieties Otaksa and cyanoclada. Habit dwarf, flowers lively pink two to two and one-half inches in diameter, often semi-double, petals thick and pointed.

Henri Beaulieu, Woodhaven, N. Y., registers Dahlia Wm. Scott, show, color bright red; flower flat, unlike any existing variety; diameter five inches or more; height, four feet; flower stem fifteen inches; strong grower, moderate bloomer;

WM. J. STEWART, Sec'y.

American Carnation Society.

DEPARTMENT OF REGISTRATION.

S. J. Reuter, Westerly, R. I., registers Carnation Lillian Pond, a large white, of good form and strong fragrance; good keeping qualities; strong stem and an early and continuous bloomer.

There are a number of new carnations about to be introduced and others that have not been registered. This is a serious neglect on the part of the originators, as they should be registered either with the American Carnation Society or the Society of American Florists, so that the names and descriptions may be on record. The fee with the American Carnation Society is \$1 for each name and registration is open to anyone having a new carnation whether a member of the society or not. All names registered with the carnation society must be sent to Albert M. Herr, Lancaster, Pa. Those that are registered with the S. A. F. must be sent to Wm. J. Stewart, 79 Milk street, Boston, Mass. In this society registration is free to members and to outsiders the fee is \$5 for each name.

ALBERT M. HERR, Sec'y.

Piping a Carnation House.

ED. AM. FLORIST:—I have a carnation house 15x70, ten feet to ridge. With two 2-inch flows through the center with a fall of eighteen inches, each flow feeding three 1 1/2-inch returns, will I have enough radiation to give me 45° in zero weather? If not, would it be better to have four

1½-inch returns to each 2-inch flow or to run another 1½-inch flow through the center and connect with two 1½-inch returns, one for each side of the house?
M.

There should be no difficulty in maintaining the desired temperature with two 2-inch and six 1½-inch returns. If a higher temperature than 55° should be desired each of the flows could carry an additional return. While good results can be secured with 1½-inch pipe, 2-inch pipe will be even more satisfactory in 70-foot houses. Seven pipes of this size will be desirable for the above described house.
L. R. TAFT.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to THE AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By boy 16, with one and one-half years' experience in greenhouse and florist work. Address 85 Thomas St., Chicago.

SITUATION WANTED By gardener and florist, either private or commercial place; aged 34, single; 20 years' experience in all branches. Address O. P., care American Florist.

SITUATION WANTED By experienced grower of roses, carnations, etc., competent to take charge. Single; good references. South or east preferred. Address H. J., care Am. Florist.

SITUATION WANTED As grower, 2 years' experience with a general line of plants and cut flowers; cool worker; temperate in every way. Missouri or Kansas place preferred. J. D., Pleasant Hill, Mo.

SITUATION WANTED By September 1; German, age 28 years; single, 14 years' experience with palms, ferns, forcing stock, bedding plants and cut flowers. Private or commercial. C. T., care American Florist.

SITUATION WANTED By a man of 23, to take charge of rose or carnation section; no bad habits; willing and trustworthy. State wages with or without board. Address A., 524 Broadway, Cincinnati, O.

SITUATION WANTED By experienced florist as foreman; 20 years' experience growing roses, carnations, chrysanthemums and general stock; age 37; married; references. Address P. W. NORTH, Box 27, Stamford, Conn.

SITUATION WANTED About Sept. 1st, by good grower of plants and cut flowers, as foreman or grower in up-to-date retail business; 18 years' experience. All references. Address L., care Schieppan, 3455 State St., Chicago.

SITUATION WANTED—In western state only, by experienced florist, as working foreman or grower of first-class stock. Successful propagator and grower of roses, carnations and general stock. Permanent place with fair wages looked for. WESTERN, care American Florist.

WANTED First-class grower of cut flower stock and bedding plants. Address A. H. S., care American Florist.

WANTED—A competent man for night fireman for greenhouses. Address C. S. FOOTE, Dowbers Grove, Ill.

WANTED—Competent storeman. Must be sober and reliable. References required. CENTRAL GREENHOUSES, Sandusky, O.

WANTED To buy some palms for decorating purposes. Give description and price. STEAKHOUS & GREEK, 143 South 13th St., Lincoln, Neb.

WANTED A single young man as assistant, experienced in growing carnations and mums. \$25 and board. Address GEO. R. GEIGER, Nazareth, Pa.

WANTED A single all-around greenhouse man, one who understands growing ferns, palms, carnations, etc. Address J. M. GASSER Co., Euclid Ave., Cleveland, O.

WANTED A man who understands the growing of cut flowers and general stock. Must be temperate and single. State wages with room and board. 2012 3rd Ave., New Brighton, Pa.

WANTED Practical gardener who can take charge of the landscape work of private estates and small public parks. Address, with full particulars, A. G. C., care American Florist.

WANTED—Assistant or working foreman, must have experience in propagating bedding plants. State wages expected with board. Address L. MOSICK, near 85th street and South Chicago avenue, Chicago, Ill.

WANTED TO RENT Five to eight greenhouses in or near Chicago with a view of buying. Same must be in good condition. State full particulars as to size, price, terms, location, etc. Address GREENHOUSE, care American Florist.

WANTED Propagator of roses, carnations, etc., must be thoroughly first-class; no others need apply. Also a few growers of roses and carnations for sections. Good wages and steady work. LAKEVIEW ROSE GARDENS, Jamestown, N. Y.

WANTED An all-around grower of decorative plants, roses, carnations, chrysanthemums and miscellaneous stock; must be capable of taking charge. Good place for the right man. Address C. H., care American Florist.

WANTED—Experienced grower of Beauties and roses, able to take charge of range of houses and turn out first-class stock. Good wages to man with acceptable references. Married man preferred. Address H., care American Florist.

WANTED Single man, good all-around grower and propagator. Must know something about making up and looking after retail trade in general; 25,000 feet of glass, Central Indiana. Wages \$12 per week with bed room. Address RETAIL, care American Florist.

WANTED A working foreman to take charge of 22,000 square feet of glass, where first-class roses and carnations are grown, also one house of poinsettia; also one assistant. State age and wages expected, with board and washing. Apply to JOHN L. WYLAND, De Haven, Pa.

WANTED Young man, steady and industrious, bright, capable, possessing fair education, good manners, some experience with palms, ferns, decorative plants, etc., who wishes to live in Florida (best climate for throat or lung troubles); permanently. State age, experience and all details, with recommendations. Address ROYAL-PALM NURSERIES, Oneco, Florida.

FOR SALE 1,800 feet new 1½-inch standard wrought iron pipe, 7 cents per foot. C. D. GALLETINE, Morrison, Ill.

FOR SALE—Well established greenhouse business, 12,000 feet of glass; steam heat, 100 miles from Chicago. INDIANA, American Florist.

FOR SALE—Two hotwater boilers, 1 upright tubular 8 horse power boiler, \$40; 1 Weathered cast iron boiler, \$35. I. L. PILLSBURY, Galesburg, Ill.

FOR SALE Dwelling and greenhouses, (no stock) centrally located in city of 4,500 Long-established, paying business; no competition; 3,200 feet of glass. Cause, death of owner. Mrs. MARY BEZNER, Ext., Jerseyville, Ill.

FOR SALE OR LEASE—On easy terms in Leominster, Mass., 10,000 ft. glass, 10 room house, barn, 15 acres land, one mile from center; 45 miles from Boston. Good place for anyone looking for greenhouse property. Price \$7,000. Address W. E. ALLEN, Admr., Manchester, Mass.

FOR SALE OR LEASE—In a city of about 50,000 population, a well established greenhouse plant of 25,000 feet of glass, good dwelling, barn and everything complete. Will sell on easy terms or rent as long as parties want, but parties leasing same must buy stock. Don't answer unless you mean business. B. J., care Am. Florist.

WANTED.
Experienced Plant and Bulb Salesman, for Eastern territory. Address BOX 12, care American Florist.

FOR SALE.
Four greenhouses, 16x50, hot water heat city water, nearly new and in good repair; well stocked with plants for retail trade; 112 square rods of ground in good residence part of town, one block from electric cars and four blocks from business center; good eight-room house, with hot water heat, electric light gas and city water; good barn, good growing bus. and no opposition; terms \$2,500 down, balance on easy terms, reason for selling, old age and poor health.
E. M. BISSELL, Independence, Iowa.

WANTED.
Night fireman. Good wages to experienced man.
SOUTH PARK FLORAL CO.,
New Castle, Ind.

FOR RENT.
2 hot houses, 25x55 and 10x100, suitable for carnations and violets, heated by hot water; and 20 acres of mud all cleared, 8½ acres choice American grapes; fine dwelling and outbuildings, 9 miles from Portland, Ore.; fine gravelled road. Rent \$350 per year in advance.
FRED'K H. LIND, FULTON, OREGON.

For Rent or Sale Greenhouse
(about 7,000 feet of glass), dwelling and stable, Evanston, Ill., two blocks from C. & N. W. station. Good established trade direct from greenhouse. Rent reasonable. Address 1127 CHURCH ST., EVANSTON, ILL.

FOR SALE.
Now offered for sale, our entire plant, greenhouses, land, stock and business; thirty years established and under one management; nearly 25,000 feet of glass; products all sold retail; three-fourths income from cut flowers and floral work; whole place rebuilt in last ten years; the largest greenhouse place in northwest New England; a fine steady trade; books open. Desire to retire from active business reason for selling. For terms, write or visit
ELLIS BROS., Keene, N. H.

BOILERS FOR SALE.
Two No. 6 Cottage Hot Water Boilers and one No. 15 Lord & Burnham. The Park Department is increasing their greenhouse area and is changing from hot water to steam and wish to dispose of these boilers at once. They are in first-class condition in every way. Grates and all connections are perfect. All three of the boilers have the shaking and dumping grates, and the two smaller Cottage boilers have a capacity of 600 feet of 4-inch pipe. The larger one has a capacity of from 1,400 to 1,600 feet of 4-inch pipe. These boilers are comparatively new, having been used but a short time.
Prices for the smaller ones \$50.00 apiece. For the large one, \$80.00; cash. These prices f. o. b. Cincinnati. All smaller fittings and pieces will be packed. Address
SUPERINTENDENT OF PARKS,
City Hall, Cincinnati Ohio.

The annual meeting of the Florists' Hail Association will be held at the Auditorium, Asheville, North Carolina at 2 P. M., Aug. 21, 1902.
John G. Esler,
Secretary.

NOTICE
—OF—
STOCKHOLDERS' MEETING.
CHICAGO, July 19, 1902.
Stockholders of the American Florist Company:
You are hereby notified that the annual meeting of the Stockholders of the American Florist Company will be held in the Battery Park Hotel, Asheville, N. C., Wednesday, August 20, 1902, at 3 o'clock P. M., for the purpose of electing directors and officers for the ensuing term, and for the transaction of such other business as may come before the meeting.
J. C. VAUGHAN, Pres.
M. BARKER, Secy.

Buffalo.

CRAFTSMEN ENJOY A VERY SUCCESSFUL OFFING.—EVENTS WELL CONTESTED.—A VARIETY OF PERSONAL AND TRADE DOINGS.

The florists' outing was a decided success. The great feature was the ball game between the All-Scotts and All-Buffalos. The former were victorious, owing to the errors of their opponents. The other events, too numerous to mention, were well contested. The Bedell is a fine place to go, but their bill of fare was far from satisfactory.

Reichert and Wiese, in the quarter-mile race, ran well. The young people, Scott, Braik, Long and McClure enjoyed themselves in the dance hall and, had it lasted longer, Wm. Legg would have been limbered up for an eight hand reel.

Business is very quiet and stock running to outdoor varieties. Asters and gladioli are good and roses about what we may expect in August. Funeral work has been quiet and the greenhouses are being generally overhauled.

Mrs. D. Newlands & Son have had a very good trade this season and are well satisfied. Their greenhouses are well situated for cemetery trade.

W. A. Adams is at Dunkirk and Miss E. C. Smith, of Anderson's, is in Toledo, Ohio. M. Steger, of Kasting's, is also away.

Work on Palmer's new store is progressing nicely.

L. H. Neubeck is busy at his Corfu greenhouses. Bison.

Lapeer, Mich.

W. H. Watson has benched one house of carnations, the Marquis, and is hard at work on the rest of the task. He will bench upwards of 35,000 plants. He has been exceptionally fortunate this year in that his field is high ground and out of 61,000 plants not more than 1,500 show injury from the wet weather. Stem rot is almost unknown with him. Mr. Watson early took alarm at the prospect for a coal famine and in June laid in 370 tons, which is within fifty tons of his season's requirements. He says that he sleeps better with that coal pile to fall back upon.

MY GOOD WISHES

To all florists whom I expect to meet in North Carolina.

I have now for sale **FANCY** and **DAGGER FERNS**, at 40c, 45c and 50c per 1000. They are picked fresh every day and will guarantee them to be all right.

Also **SPHAGNUM MOSS** and **CHRISTMAS TREES**.

Bouquet Green, Laurel Roping and Spruce Boughs for cemetery use.

FLORISTS' SUPPLIES of all kinds.

Give me an order before the 26th of August so you can take to me over it to North Carolina. Address all orders to

THOS. COLLINS, Hinsdale, Mass.

Galax AND Leucothoes.

Selected, Bright and Brilliant. Wholesale Trade Solicited.....

J. L. BANNER & CO., Montezuma, N. C.

The American Florist, Chicago, Ill.

McKELLAR & WINTERSON CO.

Supply Everything Used by Florists, Nurserymen, Gardeners, Seedsmen..... Cemeteries, Parks, Etc.

HEADQUARTERS on CUT-FLOWERS 45-47-49 Wabash Ave.

Telephone Main 1120. **...CHICAGO**

The F. R. WILLIAMS CO. WHOLESALE FLORISTS.

Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.

Telephone Connections.

CLEVELAND, OHIO.

Wholesale Flower Markets

MILWAUKEE, AUG. 11.

Roses, Beauty, med. per doz.	1.00@1.50
" " short	.50@ .75
" Liberty	6.00@ 8.00
" Bride, Bridesmaid	2.00@ 4.00
" Meteor	2.00@ 4.00
" Golden Gate	2.00@ 4.00
" Perle	2.00@ 4.00
Carnations	1.00@ 2.00
Sweet peas	.15
Adiantum	.75@ 1.00
Smilax	12.00@15.00
Asparagus	.65.00
Common ferns	.25

PITTSBURG, AUG. 14.

Roses, Beauty, specials	15.00@20.00
" " extras	10.00@12.00
" " No. 1	4.00@ 6.00
" " No. 2	2.00
" Bride, Bridesmaid	1.00@ 4.00
" Meteor	1.00@ 4.00
Carnations	.50@ 1.50
Asters	.75@ 1.50
Lily of the valley	2.00@ 3.00
Harrisii lilies	5.00@10.00
Gladioli	1.00@ 3.00
Sweet peas	.20@ .50
Smilax	8.00@ 10.00
Adiantum	.75@ 1.00
Asparagus	35.00@40.00

CINCINNATI, AUG. 14.

Roses, Beauty	10.00@20.00
" Bride	2.00@ 3.00
" Bridesmaid	2.00@ 3.00
" Meteor	2.00@ 3.00
" La France	3.00@ 4.00
" Kaiserin	3.00@ 4.00
Carnations	.75@ 1.00
Asters	.75
Gladioli	2.00@ 3.00
Lily of the valley	3.00@ 4.00
Asparagus	50.00
Smilax	12.00
Adiantum	1.00
Common ferns	.15

St. LOUIS, AUG. 14.

Roses, Beauty, short stem	3.00@12.00
" Bride, Bridesmaid	2.00@ 4.00
" Golden Gate	2.00@ 4.00
Carnations, ordinary	.75@ 1.00
" choice	1.50
Asters	.75@ 1.00
Gladioli, Tuberoses	2.00@ 4.00
Auratum lilies	4.00@ 5.00
Smilax	12.50@15.00
Asparagus Sprengeri	1.00@ 1.50
" Plumosus	1.00@ 1.50

RICE BROTHERS WHOLESALE FLORISTS and FLORAL SUPPLIES.

Receivers and Shippers of Fresh Cut Flowers.

Special attention to shipping orders. A complete line of Florists' needs. Send for price list. Prompt returns on all consignments.

128 N. Sixth St. MINNEAPOLIS, MINN.

Mention the American Florist when writing to advertisers on this page.

E. H. Hunt,

WHOLESALE.....

Cut Flowers

THE "OLD RELIABLE,"

76 Wabash Ave., CHICAGO.

Poehlmann Bros. Co.

Wholesale Growers of

and Dealers in **Cut Flowers**

All telegraph and telephone orders given prompt attention. **35-37 GREENHOUSES: Randolph Street, CHICAGO, ILL.**

The Cincinnati Cut Flower Co.,

437-439 Main St. WHOLESALE FLORISTS. CINCINNATI, O.

Consignments Solicited. Special Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.

Michigan Cut Flower Exchange.

Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around.

BRONZE GALAX, \$1.00 per thousand. 28 Miami Ave., DETROIT, MICH.

H. G. BERNING Wholesale Florist

1322 Pine St., ST. LOUIS, MO.

Frank M. Ellis, WHOLESALE FLORIST,

1316 Pine Street, ST. LOUIS, MO.

CONSIGNMENTS SOLICITED.

C. A. KUEHN, Wholesale Florist,

1122 PINE STREET,

ST. LOUIS, MO.

A complete line of Wire Designs.

Pittsburg Cut Flower Co. Ltd

WHOLESALE FLORISTS.

Pittsburg, Pa.

BEAUTIES



WE ARE getting in a nice cut of Beauties from young plants, extra good for so early in the season. With other roses so poor, it is the best stock to buy. We can supply up to 24-inch stems. All other flowers in season. Get your orders in early.

E. C. ANGLING,

THE LARGEST, BEST EQUIPPED AND MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32-36 Randolph St. Long Distance 'Phones 1977 and 1999 Central. CHICAGO, ILL.

PRICE LIST.

BEAUTIES.		
24-inch stems,	per doz.	\$2.00
20 "	" "	1.50
16 "	" "	1.00
12 "	" "	.75
8 to 8-in.	per 100	\$4.00 5.00
	Per 100	
Brides.....		\$2.00 4.00
Maids.....		2.00 4.00
Meteors.....		2.00 4.00
Gates.....		2.00 4.00
Caroatons.....		1.00 1.50
Tuberose, per doz. stalks, 60-75		
Auratum, per doz., 1.00 1.25		
Gladiolus, per doz., 25c to 35c		
Asters.....	.75	1.50
Valley, select.....		4.00
Asparagus plumosus, per strg,		.50
" Sprengeri.....	2.00	4.00
Galax.....	1.25	.15
Ferns.....per 1000, \$1.00,		.15
Adiantum.....	.50	.75
Smilax.....per doz., 1.00 1.25		
Prices subject to change without notice		

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Avenue, CHICAGO.

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.

600,000 FEET OF GLASS. Headquarters for American Beauty.

51 Wabash Ave., CHICAGO, ILL.

FRANK GARLAND,

Wholesale Grower of **Cut Flowers**

SPECIAL ATTENTION GIVEN TO HARDY CUT

FERNS

55-57 WABASH AVENUE,

Telephone Central 3284 CHICAGO.

Bassett & Washburn

76 & 78 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of **Cut Flowers**

GEO. REINBERG,

Wholesale Grower of **Cut Flowers**

Choice American Beauties.

We will take care of your orders at reasonable prices. Prompt attention.

51 Wabash Ave., CHICAGO, ILL.

.....If you.....

Business Methods

are right you can make a profit on an advertisement here.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of

CUT FLOWERS

Wholesale Flower Markets

CHICAGO, AUG. 15.

Roses, Beauty, 24-inch stems	2.00
" " 20 "	1.50
" " 15 "	1.00
" " 12 "	.75
" " 6 to 8 " per 100	4.00@ 5.00
Bride, Bridesmaid.....	2.00@ 4.00
Meteor.....	2.00@ 4.00
Perle.....	2.00@ 4.00
Golden Gate.....	2.00@ 4.00
Carnations.....	1.00@ 2.00
Asters.....	1.00@ 1.50
Gladiol.....	2.00@ 3.00
Lily of the valley.....	4.00
Auratum, per doz., 1.00@ 1.25	
Tuberose.....	3.00@ 6.00
Asparagus, per strig, .50	
Adiantum.....	.50@ .75
Common ferns, per 1000, 1.00	.15
Galax leaves, per 1000, 1.25	.15
Smilax, per dozen, 1.25@ 1.50	

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F. F. BENTLEY, Manager,

Wholesale Commission Florists

31-35 Randolph St., CHICAGO.

Consignment solicited.....

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During July and August will be open from 7:30 A. M. to 6.00 P. M. Saturdays, close at 1.00 P. M.

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FANCY OR DAGGER FERNS
FIRST QUALITY 50 CENTS PER 1000.
BRONZE OR GREEN GALAX \$1.00 PER 1000.

LAUREL FESTOONING, just the thing for summer decorations, only 4, 5 and 6c per yd. Discount on ferns and laurel in large quantities.



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Tel. office, New Salem.

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REPRO OF THIS LEAF, POSTPAID, \$1.25.

American Florist Co.,

CHICAGO.

Wholesale Flower Markets

BOSTON, Aug. 13.

Roses, Beauty extra.....	10.00@20.00
" " medium.....	5.00@ 8.00
" " culls.....	50@ 2.00
" Queen of Edgely.....	10.00@16.00
" Bride, Bridesmaid, Meteor.....	5.00@ 6.00
" extra.....	4.00@ 6.00
" Kaiserin, Carnot.....	3.00@ 6.00
Sweet peas.....	.05@ .10
Carnations.....	.25@ 1.00
Asters.....	.10@ 1.00
Gladioli.....	2.00@ 3.00
Lily of the valley.....	2.00@ 4.00
Lilies.....	3.00@ 5.00
Adiantum.....	.75@ 1.00
Asparagus.....	50 00
Smilax.....	12.50@18 00

PHILADELPHIA, Aug. 13.

Roses, Tea.....	2.00@ 4.00
" " extra.....	4.00@ 6.00
" Beauty, extra.....	15.00@ 20.00
" " firsts.....	8.00@12.00
" Queen of Edgely, extra.....	20.00@25.00
" " firsts.....	10.00@15.00
Carnations.....	50@ 1.50
Lily of the valley.....	3.00@ 4.00
Asparagus.....	15.00@35.00
Smilax.....	10.00@15 00

BUFFALO, Aug. 14.

Roses, Beauty.....	6.00@25.00
" " Bride, Bridesmaid, Meteor.....	3.00@ 6.00
Carnations.....	1.50@ 2.00
Sweet peas.....	.10@ .35
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20 00
Adiantum.....	1.00@ 1.40

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Roses, Carnations and all kinds of Seasonable Flowers in stock.

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Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

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Fair dealing and prompt returns guaranteed.
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Headquarters, 56 West 26th Street,

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HARDY Cut Dagger and Fancy Ferns.
A No. 1 quality \$1 per 1000.
Brilliant Bronze and Green Galax, \$1 per 1000, in 5,000 lots.
Laurel Festooning, 4, 5 and 6c per yard. Orders by mail, telephone or telegraph promptly attended to. Discount on large orders. L. D. telephone 2618 Main.
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This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs....

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THE AMERICAN FLORIST'S
COLOR CHART

PRICE 15 CENTS POSTPAID.
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During July and August store will be open from 7 a. m. to 6 p. m.

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Are supplying the most superb stock of SUMMER FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendelij.

SEND FOR QUOTATIONS.

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Telephone 902 Madison Square.

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Wholesale Commission Florists,

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Adjoining New York Cut Flower Co. salesroom.
Finest Salesroom in the Trade. Inspection Invited.
All business, selling or shipping, strictly commissior

WHOLESALE WILLIAM GHORMLEY, COMMISSION

RECEIVER AND SHIPPER OF FRESH CUT FLOWERS. DAILY STOCK OF ALL THE CHOICEST VARIETIES FROM BEST GROWERS WHO SHIP TO NEW YORK.

ORCHIDS, ROSES, CARNATIONS, VALLEY.

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Special American Beauties,
Surpassing Carnations,
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Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

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Telephone 551 Madison Square.

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Open from 6 a. m. to 5. p. m.

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An Unequaled Outlet for Consigned Flowers.

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New York, Aug. 13.

Roses, Beauty, select.....	15.00@25.00
" " medium.....	5.00@12.00
" " culls.....	.50@ 2.00
" Bride, Bridesmaid.....	.50@ 5.00
" Liberty, Meteor.....	1.00@ 5.00
" Testout, Kaiserin, Carnot	1.00@ 6.00
Carnations.....	.25@ 1.00
Lily of the valley.....	1.00@ 2.00
Lilies.....	3.00@ 5.00
Sweet peas, per 100 bunches, 1 OC@	2.00
Cattleyas.....	25.00@60.00
Smilax.....	4.00@ 8.00
Adiantum.....	.50
Asparagus.....	35.00@50.00
" Sprengerii, doz. bun.	2.00@3.00

RELIABLE AT ALL SEASONS.

Best Flowers.

REASONABLE PRICES.

J. K. ALLEN

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OPEN AT 6 A. M. DAILY.

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Largest Grower of... Cut Flowers
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CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Withersfield, Conn., Sec'y and Treas.

CHINESE lily bulbs are reported a short crop this year.

THE Connecticut seed crops, of beet, carrot, turnip and parsnip, were looking well July 25.

THE city of Pittsburg has awarded the contract for the supply of bulbs for Schenley, Highland and Southern parks to W. C. Beckert, of Allegheny, Pa.

THE Long Island cabbage seed crop will be a full one on nearly all kinds, with the possible exception of Early Spring, Hollander and Danish Ballhead. The seed will germinate high and be of good carrying quality.

ONE pea crop report from Canada indicates a crop of two and one-half to one. The Sturgeon Bay, Wis., and Sheboygan, Mich., pea reports are in the main favorable. Alpena, Mich., pea crops are not so good. The dwarf wrinkled sorts are the poorest.

PHILADELPHIA, PA.—One of the large buildings of D. Landreth & Sons, located at Bloomsdale, on the outskirts of Bristol, was destroyed by fire early August 7. The loss is placed at about \$40,000, the building and contents being fully insured. The building was used for storage and packing purposes.

The Acreage of Sugar Beet.

The number of acres devoted to sugar beets in the United States is reported as follows

	1900.	1901.	1902.
	Acres.	Acres.	Acres.
California.....	12,000	64,300	71,234
Colorado.....	10,800	23,700	39,149
Michigan.....	39,000	57,400	58,000
Utah.....	11,200	12,500	18,600
Other States.....	28,700	36,825	32,230
Total.....	131,700	194,725	259,513

Nebraska Seed Crops.

A Waterloo, Neb., correspondent reports, August 11, that the prospects for muskmelon and watermelon are exceedingly poor. The melon louse or aphid has appeared in great numbers, making the conditions still more serious. Because of the weak early growth of the plants, they are in poor condition to withstand these attacks. Cucumbers are looking some better and squashes fair. Corn is unusually fine at present and should yield above the average, but the acreage is not large.

Lewis L. May.

The subject of this sketch is a Canadian by birth, having been born in Oshawa, near Toronto, about forty-six years ago. In early life he engaged in telegraphing but soon gave this up for the nursery business, entering the employ of T. W. Bowman, of Rochester, about thirty years ago. He went from there to Chase Bros. After a few months with this latter firm he engaged with Stone & Wellington as their northwestern representative, locating in Winnipeg about twenty-five years ago. Two years later he removed to St. Paul and entered into partnership with the old firm under the name of Stone, Wellington & May, conducting an agency business for the sale of nursery stock in the then rapidly devel-

oping states and territories of the great northwest. On the death of Mr. Stone in 1882 he purchased the entire business, which has since been conducted under the firm name of L. L. May & Company. In 1887 greenhouses were erected and a floral business added to that of the nursery. In 1889 the wholesale seed trade department was established, and has since grown to large proportions. In 1899 a large farm was purchased and the following year the first plantations of nursery stock were made at Mayfield. Possessed of unbounded ambition, push and ability, he has forged rapidly to the front in the several lines of business in which he is



LEWIS L. MAY.

engaged and his firm is now as well known as any in the country.

In 1881 he married Miss Lovell, of Toronto. His family consists of a daughter, Miss Grace, and two sons, Lewis and Lovell. Although a very busy man at all times he always has time to exchange a hearty greeting with all his friends and their name is legion. In his home city he has been twice honored by appointments to the school board and police board of commissioners. He is now vice-president of the latter body.

Government Seeds in the West.

The old clabber-faced barnacles are all on the pay roll. Bowlegged agricultur-

ists, who can't farm; supernannated preachers, who can't preach; ex-lawyers, doctors and editors, decayed politicians—ballheaded, spectacled and bewhiskered—who have grown old, bleary eyed and decrepit writing about the number of kicks in a mule's hind leg; the per cent of protein in a boiled cabbage; the number of hammers in a yellowhammer's hammer; and they are all on the pay roll, with big salaries, as naturalists, archaeologists, zoologists, pomologists, meteorologists, entomologists, ornithologists; and their numbers are as the sands of the sea; and they belong and are a part of the agricultural department, Washington—the main part—the whole thing, in fact; and they work the congress to a frazzle for appropriations to pay them, while they sit in their back offices lolling out their tongues while enlightening the sovereign squats on the subject of farming. Did you ever see an agricultural department agriculturist? And did you ever see an agricultural department garden seed? Well, they both look alike. A bag or two of the agricultural department garden seeds struck this town last spring; and the packages were given to the unsuspecting farmers, round about; and the returns are just coming in. Speaking of agricultural department "sweet corn"—a mixture of yellow and white Indian corn, crossed with calico squaw, broom, flint, Katfir, ninety day Dent, Early White Kentucky and every known and unknown variety grown on the continent; and these old clabber-faced barnacles buy it by the ton and ship it west as sweet corn. Lord help us!—*Eldorado Republican.*

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ED. AM. FLORIST:—I enclose \$1 for renewal of my subscription to the FLORIST. I find it the best investment I ever made. C. E. PEACOCK, Villa Nova, Pa.

An Essential.

ED. AM. FLORIST:—Enclosed I hand you an express order for \$1 to renew my subscription. I could hardly get along without the FLORIST. H. L. DAWES, Nelson, B. C.

Mushroom Spawn Fresh Importation
FERTILE. PRODUCTIVE.
 English in bricks, per 100 lbs., \$6.50 f. o. b. New York, \$7.00 f. o. b. Chicago. Write for prices on quantity.
Vaughan's Seed Store,
 CHICAGO. NEW YORK.

Crop 1902. Ready Now.

PANSY.
BARNARD'S FLORIST MIXTURE.

A high class, up-to-date mixture that fills the bill "par excellence"—made up from leading colors, producing flowers of the most perfect type. It gives you pansies that sell.

Trade pkt. 25c; 1/8 oz. \$1.00; 1/2 oz. \$4.00; per oz. \$7.00.
 Giant Mixture, trade pkt. 25c; 1/8 oz. 50c; oz. \$4.00.

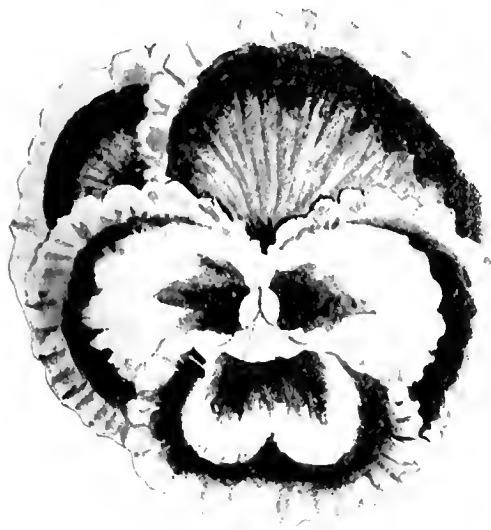
Full assortment of separate colors ready now.
 New crop of high grade Flower Seeds constantly arriving.

W. W. BARNARD & CO.

161 & 163 E. Kinzie St. CHICAGO.

Importation of New Crop Pansy Seed

JUST RECEIVED



Type of Hunt's Unrivalled Pansy.

HUNT'S UNRIVALLED MIXTURE - Universally acknowledged the best and most reliable Pansy Mixture for sale anywhere. We do not trust to one grower for the seed, but purchase on contract from several European Pansy Specialists their choicest strains and newest novelties. We then form the mixture ourselves, so we know absolutely that the correct proportion of each sort is used. Every variety is tested upon receipt and strains are discarded which do not show 87% to 98% germination. The fact that the seed comes from so many sources is ample assurance against old varieties. The Odier, Cassier, Bugnot and Trimardeau strains, together with the striped and veined German Show Pansies, Masterpiece and all the late creations, forms a variegated and splendid mixture which defies competition. Trade pkt., 25c; 1/4 oz., \$1.00; 1 oz., \$8.00; lb., \$125.00.

OTHER FINE MIXTURES.

TRIMARDEAU - A mixture of all the Giant sorts, including the richest, yellows and blues. We have spared nothing to make this the highest quality giant mixture in America. Trade pkt., 20c; 1/4 oz., 75c; oz., \$3.50.

LARGE FLOWERING MIXED - A fine mixture of the large-flowering sorts, including all the latest French Pansies. Trade pkt., 25c; 1/4 oz., 75c; oz., \$4.00.

CHOICE MIXED - Where a cheaper grade will do this mixture is recommended. Fine for bedding. Trade pkt., 15c; 1/4 oz., 40c; oz., \$2.00.

PRIMULA - Hunt's Florists' Mixture "THE GRAND" - Fine assortment of colors, including the better selling shades and all the Giant sorts of Chinese Primula, English grown seed. The seeds forming this mixture are grown for us by English Specialists. The quality is uniform and always the best to be had anywhere at any price. Trade packet, 50c; 1000 seeds, \$1.50.

CALCEOLARIA - Hunt's Hybrida Grandiflora. The best Florists' mixture on the market, containing all the tigered, mottled, variegated and spotted types, beautifully marked and self-colored strains, representing a vast and marvelous diversity of colors. Trade pkt., \$1.50. Calceolaria Special, \$1.00. Fine mixed, 50c.

CINERARIA - Hunt's "SPECIAL" mixture. An assortment of unquestioned merit containing all the finest English strains exclusively. 1000 seeds, 75c; 2 trade pkts., (2,000 seeds), \$1.25. Finest German Mixture, 50c trade pkt.

E. H. HUNT, 78 WABASH AVENUE, CHICAGO, ILL.

ROEMER'S
Superb Prize Pansies

The finest strain of Pansies
in the World.....

**INTRODUCER AND GROWER OF ALL THE
LEADING NOVELTIES.**

Highest Award Inter. Exhibition at Ham-
burg, 1897. Catalogue free on application.

Fred. Roemer,
Seed Grower, **QUEDLINBURG, GERMANY.**

Seed Pansy Seed

Roemer's Superb Prize Pansies.
The World's Best.

New crop ready now. My own growing. This mixture comprises the choicest strains of Pansies grown, all the new shades and richest colors are included, and for beauty, variety of color, size of flower and perfection of form is unsurpassed.

Mixed, per pkt. of 3000 seeds, \$1.00; 1/4 oz. \$1.50;
1/2 oz. \$2.50; 1 oz. \$5.00. Cash with order.

PETER BROWN, - Lancaster, Pa.



H. Wrede, LUNEBURG, GERMANY PANSY SEED.

165 First Prizes, the highest awards
Chicago, Hamburg 97, Paris 1900.
1000 Seeds, finest mixed, 25c.
1 oz. \$2.25

Price List on application. Cash with order.
Please mention the American Florist when writing.

PANSY SEED.

The Jennings Strain

of High Grade Pansy Seed now ready. Stock this season is the finest I have ever grown. Finest mixed, \$1 per pkt; \$3 per 1/2 oz.; \$5 per oz. Separate colors in red, white, blue, black and yellow, per pkt Pansy plants ready Sept. 1. Cash.

JENNINGS, Lock Box 254, Southport, Conn.
Grower of the Finest Pansies.

"THE CORONATION" Giant Fancy Market Pansy

Having again been successful in harvesting our crop of this magnificent strain, which we now beg to introduce to the notice of our American friends, we feel certain from the many flattering reports reaching us from all quarters, that it is unsurpassed for size, quality and diversity of colors. The blooms being carried well above the foliage (a great desideratum), show off the bright and distinct markings to the greatest advantage, embracing as they do most beautiful shades of pink, rose, salmon, purple, blue, yellow and velvety maroon, with the margin of the petals distinctly and regularly marked in gold, white, blue, etc. In fact an eminent Continental Grower writes us that our strain is "the best he has ever seen." Trade price—Per pound, \$50.00; per oz., \$4.00; per packet, \$1.00, postage paid.
THE SURREY SEED CO., Ltd.
REDHILL, ENGLAND.

Pansies MME. PERRETT

Mme. Perrett is the finest strain of Pansies on the market. I have the true, genuine strain. Trade pkt. 50c; 1/4 oz. \$2.50; oz. \$4.00.
Plants ready September 15th.

J. C. Schmidt, Bristol, Pa.

ZIRNGIEBEL'S GIANT PANSIES.

Market and Fancy Strains. New Crop Seed Ready Now. The leading varieties to date where large size and rich colors are desired. As growers, and knowing every strain of note in cultivation, we can recommend our Pansies as unequalled. Trade packets of either strain at \$1.00 each. Full directions how to sow and grow pansies with every package.

Donys Zirngiebel Needham, Mass.

FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.
In Trade Packets at \$1.00 each.
M. B. FAXON,
Lock Box 1528, **BOSTON, MASS.**
Correspondence solicited.

CARNATIONS.

LAWSON and BRADT. Very choice large stocky and clean plants, \$12.00 per 100

JAMES PATIENCE, Stamford, Conn.
Please mention the American Florist when writing.

FREESIAS.

FRENCH GROWN.



1st size, \$4.50; Mammoth, \$7.50; Jumbo, \$12.00 per 1000 Bulbs.

**Vaughan's Seed Store, CHICAGO
New York**

New Crop Pansy Seed.

Superb Show Mixture, 1/4 Oz., 75c; Oz., \$5.00
Finest Giant Strains, Oz., \$2.50; in mixture, oz., 2.00
Cineraria Giant Prize Mixed, trade packet, .75
Cineraria, New Large Flowering Striped, Tr pkt. .25

NOW READY.

		Per 100	Per 1000
Lilium Harrisii, 5-7.....		4.50	40 00
" " 7-9.....		11.00	100 00
Lilium Candidum, 20 centi. and up.....		5 50	
Callas, 5", 6 centi. circumference.....	7 00	65 00	
" " 4 1/2-5 1/2 " " " "	5 50	50 00	
Freesia, 1 1/2-2 1/2 centi. ....	.90	8 00	
Roman Hyacinths, 12-15 centi.	2.50	24 00	

W. C. BECKERT, Allegheny, Pa.

PANSY SEED

Superior Strains,
Imported Direct
from Best
Growers.

Choice named varieties, per 1/4 oz., 75c; 1/2 oz., \$2.50.
" mixture, select seed, 20 var., t. pkt., 35c; oz. \$4.
Giant Trimardeau, high grade mixture, oz., 75c.
Cassier's Giant, choice mixture, per oz., \$2.50.
Mammoth Butterfly, very fine, 1000 seeds, 25c.

JAS. C. MURRAY, Seedsman, PEORIA, ILL.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. ILGENFRTZ, PRS.; D. S. LAKE, Vice-
PRES.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.
Twenty-eighth annual convention, Detroit,
Mich., June, 1903.

WHERE a low, deciduous hedge is wanted nothing equals Berberis Thunbergii.

STERS have been taken to organize The Southern Nut Growers' Association. J. F. Wilson, Poulan, Ga., is secretary of the temporary organization.

D. S. LAKE, of Shenandoah, Ia., is building a packing cellar 130x193 with an ell 75x164. A switch from the Burlington railroad will run inside the building.

S. W. FLETCHER has resigned as professor of horticulture at the Washington Agricultural College, Pullman, Wash., and will make his home at Amherst, Mass.

THE best apple scion is about one-fourth inch at the butt and twelve to fifteen inches long, and many large growers prefer them under that size rather than above it.

JOHN S. KERR, the nurseryman of Sherman, says that of the states of the Union, Texas is not only first in area and cattle and cotton, but nearing the top in peaches, apples, pears and berries, while fast developing the limitless production of potatoes, melons, cabbage and tomatoes.

ILLNESS prevented the attendance of P. J. Berekmans at the annual meeting of the Georgia State Horticultural Society, at Macon, August 6 and 7, but he was elected president for the twenty-seventh time. W. M. Scott, state entomologist, of Atlanta, was elected secretary and L. A. Berekmans, treasurer.

Hardy Yellow Roses.

ED. AM. FLORIST:—I shall be pleased to read in your columns a list of hardy yellow roses. B. W. J. Garrison, N. Y.

The list of hardy yellow roses is a very limited one. The Austrian brier, *Rosa lutea*, a native of the orient, has been long in cultivation, and has handsome, golden yellow, single flowers. There are three varieties of this species: Austrian Copper, with delicate coppery-red, single blossoms, is extremely beautiful; Persian Yellow, with bright yellow, small flowers, and Harrison's Yellow, with semi-double blossoms and more free blooming in habit than either of the above. In 1898, M. Pernet-Ducher, the well known rosarian at Lyons, France, exhibited for the first time at Lyons a yellow flowering hybrid remontant rose, to which he gave the name Soleil d'Or, and which immediately attracted attention among rosarians everywhere. It was obtained by fertilizing the stigmas of the hybrid remontant rose Antoine Ducher, with the pollen of *Rosa lutea*. The color of Soleil d'Or might be described as orange yellow, with a slight tinge of nasturtium red, and is exceedingly beautiful when the buds are half open. Experience in this country so far with Soleil d'Or is very promising, and unless there is contradictory testimony, which has foundation in fact, Soleil d'Or, as a hardy yellow rose, will be a splendid acquisition. The above list, so far as the writer knows, contains all the hardy yellow roses worthy of cultivation. JOHN DENBAR.

Paeonias Failing to Flower.

ED. AM. FLORIST:—What would you suggest as the cause of paeonias, failing to bloom when planted in a sunny situation and in rich soil? What treatment should be given? C. C.

I have not had much experience with paeonias failing to flower, as the bulk of the stock which we have purchased thus far has bloomed after it has been established two or three years. We received, some three years since, a collection of 200 varieties of paeonias from Europe. Some of the roots were severely cut in dividing and in this collection there are several varieties that have not as yet given us good flowers. Many of the varieties, especially those that are late bloomers and of dwarf, compact habit, frequently will not bloom after the roots are divided until they have had two or three

years' growth. In fact, we do not consider a paeonia bloom fit for judging unless it has been grown on a plant from three to four years old.

There is no special treatment for paeonias so far as I know. We plant them in rows three feet apart in well prepared soil, and cultivate them with a horse hoe the same way we cultivate corn and potatoes. Paeonias are gross feeders and require plenty of plant food. It will do them good to give them a mulching of coarse, rough manure every fall and work it in around the roots lightly. The soil should be stirred around the plant for a distance of twelve inches from the base of the stalks. If planted in the lawn and the grass allowed to grow into the clump it possibly might interfere with their blooming.

C. W. WARD.

Western Fruit Grower,
ST. JOSEPH, MO.

On all advertising contracts received prior to Sept. 1st, present rate of \$1.40 per inch will apply. Rate after Sept. 1st, \$2.10 per inch. Write for sample copy and booklet.

30,000 Copies Monthly.

50,000

AZALEA AMOENA

\$12.50 per 100, \$100.00 per 1000.

10,000 AMPELOPSIS VEITCHI AND WISTARIA SINEENSIS, \$4.00 per 100; \$25.00 per 1000.

YUCCA FILAMENTOSA, \$1.50 per 100; \$10.00 per 1000.

Send for trade list of seedlings and ornamental stock.

SAMUEL C. MOON, Morrisville, Pa.

Look at This.

The largest and finest standards of *Hydrangea paniculata grandiflora* in the country at reasonable rates. Selected standards of Forsythias and Weeping Lilaes, all in true tree form and carefully staked. Immense blocks of Spiraea Anthony Waterer, S. trilobata, Viburnum tomentosum and all the fine shrubs on the market.

HOOPES BRO. & THOMAS,
Maple Ave. Nurseries, WEST CHESTER, PA.

SPECIALS FOR THIS FALL.

- 5,000 Spiraea Anthony Waterer, 2 to 3 feet.
- 5,000 Althaea, double, named, 3 to 5 feet.
- 5,000 Vinca Major Var., field stock.
- 5,000 Shrubs and Vines, 2 and 3 years old.
- 50,000 Cannas, leading sorts, including three best pink cannas.
- 10,000 Field Clumps Violets, California and L. H. Campbell, for fall delivery.

Ready Now, From 2 1-2-inch Pots.

Marie Louise, L. H. Campbell and Swanley White, good stock, \$3 per 100; \$5.00 per 1000. California, from soil, \$1.00 per 100. Cash please.

Will be at Asheville.

BENJ CONNELL, West Grove, Pa.

NEW FRUITS.

	100	1000
Golden Mayberry, strong transplants,	\$1.00	
Iceburg Blackberry,	4.03	
Kathleen Blackberry "	3.00	25.00
Chamberland Raspberry, "	3.50	30.00

The Conard & Jones Co, West Grove, Pa.

ART WORK.

Plans for Landscape Work

CEMETERIES ON LAWN PLAN.

B. F. HATHEWAY, C. E., Stamford, Conn.

Park Architects and Dealers

will find whatever they want in the

Holland Nurseries, DeBilt near Utrecht HOLLAND.

SPECIALTIES ARE: Conifers, Evergreens, Hardy Shrubs, Lilacs, Ornamental Trees, Fruit Trees in different forms, Azaleas, Rhododendron Ponticum and Hybridum.

Please send list of your wants and write for general catalogue. We will make you special offers. Write to

GROENEWEGEN & ZOON,
De Bilt, near Utrecht, Holland.

Strawberry Plants.

FROM POTS. Well established young plants of Clyde and Wadfield, (both immense croppers), for planting now and in August. Warranted to produce a full crop of the finest berries next spring. Price 50c per doz.; \$3.00 per 100. P. S.—100 planted now will give an ordinary family all they can use.

F. A. BALLER, BLOOMINGTON, ILL.

LAUREL HILL Nurseries,
F. BRUNTON
Manager.

Importers and growers of Choice Hardy Perennials. Native Trees, Shrubs, Specimen Evergreens. We grow large quantities of Iris, Paeonias, Tritomas, Phlox, Delphiniums; stock is perfectly hardy, true to name. Send for Special Catalogue of New Hardy Alpine Iris, now in the press. STOCKBRIDGE, MASS., U. S. A.

B. W. DIRKEN,
Oudenbosch, Holland.

ORNAMENTAL AND FOREST TREES
A SPECIALTY.

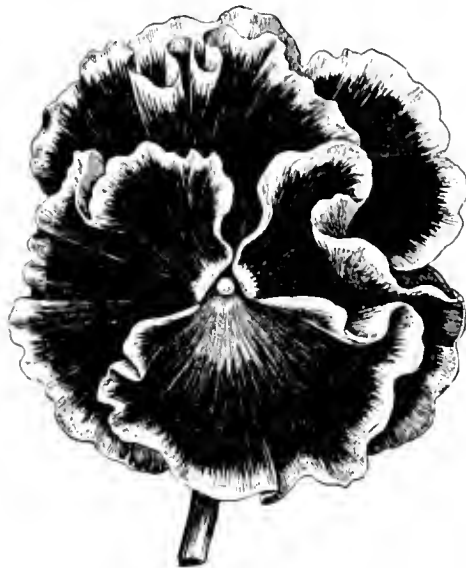
Conifers, Evergreens, Hollies, Etc.
* * * Prices on Application.

Catalogue Illustrations.

We sell Electrocs of the fine Illustrations used in the AMERICAN FLORIST at 15 cts. per square inch. Send list of your needs to.....

THE AMERICAN FLORIST

Our Pansies, Cannas and Roses received gold medals at the Omaha Exposition in 1898 and the Pan-American Exposition in 1901.



MASTERPIECE.

PANSIES.

VAUGHAN'S "INTERNATIONAL"

Received the only reward for Mixed Pansies at the World's Fair. It is to-day better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence, as all the florists who saw or used it can tell you. Price per oz., \$10.00. 1/2 oz., \$5.00; 1/4 oz., \$1.50; trade pkt., 50c.

VAUGHAN'S "GIANT MIXTURE."

This mixture is specially made by us from all the separate colors of Giant Trimardeau, the Giant Bugoot and Cassier and several special strains which cannot be had any other way. If your trade demands large flowers there is no better mixture. Price, 1/4 lb., \$14; oz., \$4; 1/2 oz., \$6; td. pkt., 25c.

VAUGHAN'S PREMIUM MIXTURE.

Embraces all the varieties of the Fancy German Sorts. We have sold this mixture for the past 16 years and it has given general satisfaction. Per pkt., 25c; 1/2 oz., 80c; 1/4 oz., \$3.00; oz., \$5.50.

IMPROVED GERMAN MIXTURE.

This is a mixture of three strains from different German growers, and is made up mostly of separate colors, with a sufficiently large percentage of white and yellow. Per large pkt., 25c; 1/2 oz., 40c; 1/4 oz., 60c; oz., \$2.00.

For full list of different varieties, write for our Special Pansy List, mailed free.

"Vaughan's International" Primrose Mixture.

Unquestionably the best mixture of Chinese Primroses. It contains the largest variety of the best selling colors. Flowers large, beautifully fringed, borne in large clusters well above the rich green leaves. Pkt. (250 seeds) 50c; 5 pkts. (1250 seeds) \$2.00.

CHINESE PRIMULA, Chiswick Red; Albu Magnifica, white; Blue, Pink, Striped. Each, per pkt. of 250 seeds, 50c; 1000 seeds, \$1.75.

DOUBLE CHINESE PRIMULA, white, pink, red or mixed, per pkt. 50c.

CINERARIA VAUGHAN'S COLUMBIAN MIXTURE A mixture of the best English and German strains, unsurpassed. Pkt. (1000 seeds) 50c; 3 pkts. \$1.25.

CINERARIA HYBRIDA LARGE FLOWERING, white, blood-red or crimson, double white or best double mixed, each, per trade pkt., 50c.

CALCEOLARIA HYBRIDA choicest mixture, pkt. 50c. **10 PER CENT** discount on flower seed orders amounting to \$2 and over for Cash with order.

BELLIS OR DOUBLE DAISY.

VAUGHAN'S	Trade Pkt.	Oz.
Mammoth Mixture.....	1-16 oz., 45c	\$3.50
Mammoth White.....	1-16 oz., 40c	.25
Mammoth Pink.....	.....	.25
Double Extra Choice, mixed, 1/2 oz., 4c	.15	\$2.50
Blue mixed.....	1/2 oz., 25c	1.00
Albus Pleus, double white, 1/2 oz., 3c	.15	2.00
"Longfellow," dark pink.....	1/2 oz., 35c	2.50
"Snowball," double white.....	1/2 oz., 35c	2.50

MIGNONETTE, TRUE MACHET.

The seed we offer produces dwarf, vigorous plants of pyramidal growth, with very thick, stout flower stalks. Finest in every way for florists' use and for pots. We have tested this with several of the fancy named strains and always with results favorable to our seed. Trade pkt., 10c; 1/2 oz., 25c; oz., 50c; 2 ozs., 75c; 1/4 lb., \$1.25.

14 Barclay Street, New York.
84-86 Randolph St., Chicago.

VAUGHAN'S SEED STORE,

FREESIAS

Now Ready. 3/4 inch and up in diameter at \$2.00 per 1000 delivered anywhere in the U. S.

Galla Bulbs

1 to 1 1/4 inches in diameter, at \$3.25 per 100, delivered anywhere in the United States.

For large quantities, write for prices. Orders from unknown correspondents must be accompanied with cash. Remember these prices are delivered.

GERMAIN SEED AND PLANT COMPANY, LOS ANGELES, CALIFORNIA.

LILIAM Harrisii

Our stock has arrived in excellent condition, firm plump Bulbs. 5 to 7, per 100, \$5.00; per 1000, \$48.00; 7 to 9, per 100, \$11.00; per 1000, \$105.00. For other Bulbs see our price list just sent out. We can fill your orders satisfactorily.

Walter Mott Seed & Bulb Co. JAMESTOWN, N. Y.

Orchids!

Arrived in fine condition: CATTLEYA TRIANE. The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

Lager & Hurrell, SUMMIT, N. J. Orchid Growers and Importers.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

The Everett B. Clark Co.

WHOLESALE GROWERS AND DEALERS IN

Garden Seeds

SPECIALTIES:

ONION, Southport Globes,
Turnip Seed and Sweet Corn, also
Beet, Parsnip, Carrot, Cabbage.

With an experience of thirty five years in selling and labeling our crops as strictly New England grown, the Seedsman can answer all questions without flinching when asked by the market gardener where the seeds were grown.

The Everett B. Clark Co., Milford, Conn.

Cut Gladiolus Spikes

of the HIGHEST QUALITY, in lots of from 100 to 100,000. Pink, scarlet, crimson, white, light, yellow, blue, lavender and heliotrope; in fact, almost every shade imaginable.

Write for prices and particulars, stating your requirements.

ARTHUR COWEE, "Meadowvale Farm," Long Dist. Phone, BERLIN, N. Y. U. S. Representative and Grower of GROFF'S HYBRIDS.

Watch this space for bulb advertisement later.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

"Sweet recreation barred, what doth ensue
But moody and dull melancholy,
Kinsman to grim and comfortless despair,
And, at her heels a huge infectious troop,
Of pale distemperatures, and foes to life?"
—Comedy of Errors.

Shooting Contest at Asheville.

INDIVIDUAL CONTESTS.

First event, 15 targets, 1st, 2d and 3d prizes (high guns).

Second event, 25 targets, 1st, 2d and 3d prizes (high guns).

The team to compete against that of Asheville will be selected according to the records made in the above two events.

TEAM MATCH

Asheville vs. S. A. F., 25 targets per man. A memento of the win will be presented to each member of the winning team. The match will take place Thursday afternoon, August 21, and we will have the use of a very nice grounds, regularly fitted up for this sport, equipped with magauptrap and set of expert traps, and we can assure every lover of the gun a pleasant afternoon's sport. We would urge that all of the craft who shoot, will not only attend the coming convention, but will bring along their guns and shells and join in this outing.

ROBERT J. HALLIDAY, } Com.
A. B. CARTLEDGE, }

Bowling Contest at Asheville.

DETROIT TROPHY.

Year.	Place of meeting.	Won by.	Score.
1899	Detroit.	Philadelphia.	926
1900	New York.	Buffalo.	1021
1901	Buffalo.	New York.	883

Conditions of Detroit trophy, greatest number of pins in any one game. Cup to be won twice before awarded finally. Winning club each year to have name engraved on cup, with number of pins and place of contest. If after four years the cup has not been won twice, it is to be awarded to the club having made the highest number of pins during that time, from among clubs having won the cup.

LORD & BURNHAM CUP.

To team making highest total in three games. To be won twice before being finally awarded.

Year.	Place of meeting.	Won by.	Score.
1900	New York.	Buffalo.	2775
1901	Buffalo.	Philadelphia.	2560

RITCHINGS CUP.

To team making highest score in third game, to be won twice before finally awarded.

Year.	Place of meeting.	Won by.	Score.
1901	New York.	Buffalo.	1021
1901	Buffalo.	New York.	883

The H. Bayersdorfer & Co. Gold Medal, valued at \$20, for highest aggregate individual score in three games.

Halliday Brothers Gold Medal, value \$15, for second highest aggregate individual score in three games.

A prize for third highest aggregate individual score in three games.

The William J. Stewart prize, value \$15, for greatest number of strikes in three games.

A prize for greatest number of spares in three games.

INDIVIDUAL CONTESTS.

The Watson trophy, gold badge, for highest total in three games. Given by Geo. C. Watson, Philadelphia, and to be known as the "Old Man's Race." Open to all, 55 years of age or over.

The Berkowitz medal, for highest total in three games. Given by Paul Berkowitz, of Bayersdorfer & Co., Philadelphia, to be known as the "Young Man's Race." Open to all, 25 years of age or under.

A. B. CARTLEDGE,
ROBERT HALLIDAY,
Committee.

Chicago Florists Picnic.

The annual picnic of the Chicago Florists' Club was held at Bergman's Grove, Riverside, on Tuesday, August 12, and was probably the most successful on record, a result largely attributable to the indefatigability of Walter Kreitling, chairman of the committee in charge. The attendance was large and the programme afforded diversion for all throughout a very pleasant afternoon.

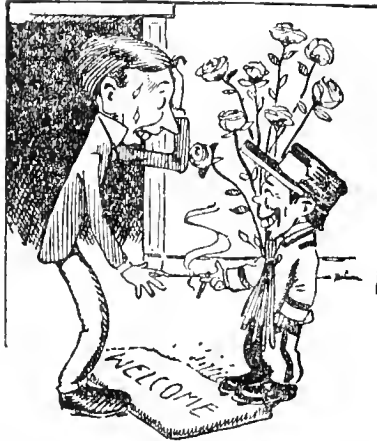
In the contests the following were prize winners:

Fifty-yard race for misses, first, C. Ludlow; second, L. C. Polis.

Fifty-yard dash for boys, first, L. Brady; second, Phil. Marder.

Fifty-yard race for girls, first, Miss Bentley; second, Miss Rose Garland.

Her Proxy.



Cholly Clerker—"What? Did she return my gift of flowers?"

Messenger—"Aw, no! She ast me please would I wear 'em fer your sake, dat's all."—Chicago Daily News.

Fifty-yard misses' race, first Miss Hill; second, Miss Brady.

Hurdle race, first, C. B. Smeeton.

Fifty-yard race for married ladies, first, Mrs. Fred. Wittbold.

Hundred-yard dash for men, first, John Sell; second, J. Walker.

Bowling contest, P. J. Hauswirth won both first and second, a ball and bag and bottle of champagne.

Ladies' bowling, first, Mrs. Mehms; second, Mrs. School.

Ball game, Winterson's team defeated Bentley's, 13 to 8.

At Philadelphia.

The Asheville team and the "scrubs" had a warm scramble on the Elks' alleys Friday night, August 8, which resulted in another victory for the "scrubs." What a difference it does make when one gets away from home! The alleys may be the most perfect imaginable but somehow the pins will not fall as expected, and before the experimenting has resulted in any good, the game is over. This defeat of the pride of the club is very humiliating and it behooves Captain Moss to get his charge into a corner and read the riot act or do something impressive. The score follows:

ASHEVILLERS.				
	1st	2d	3d	T
Moss	201	140	137	478
Robertson	104	165	126	396
Wats n.	138	151	139	428
Anderson	121	126	127	374
Craig	143	117	153	413
Kift	132	148	161	441
Totals	839	848	843	2530
SCRUBS.				
	1st	2d	3d	T
Connor	155	93	133	381
Archer	167	158	156	481
Harris	143	156	137	436
Eimerman	148	146	189	474
Iakor	138	104	102	344
Kuestner	149	147	125	421
Totals	900	804	833	2537

DEHAVAN, Wis.—F. T. Monahan is reported by Beloit papers to have bought six acres of land there for greenhouses and residence and to have leased a down town store.

XXX PRIMROSES.

IMPROVED CHINESE, Ready for 3-inch pots. Well known as the finest large-flowering fringed varieties grown, single and double, \$2.00 per 100. CASH. Extras added liberally.

The Home of Primroses.

JOHN F. RUPP, Shiremanstown, Pa.

ASHEVILLE, NORTH CAROLINA.

'The Land of the Sky.'

The eighteenth annual meeting American Florists will be held at Asheville, August 19th to 22d, 1902.

A rate of one fare for the round trip has been made via Queen & Crescent Route and Southern Railway. Special train, composed of Pullman sleepers, will leave Cincinnati, Monday, August 18th, 2:00 p. m., via Queen & Crescent Route, and run through to Asheville via Southern Railway, arriving at Asheville next morning 7:00 o'clock.

Members will meet at Cincinnati and all go through together from there.

For sleeping car reservations and full particulars regarding rates, write

J. S. McCULLOUGH, W. A. BECKLER,
N. W. P. A., N. P. A., Queen &
Southern Ry. Crescent Route.
225 DEARBORN ST. 113 ADAMS ST.
CHICAGO, ILL.

Society of American Florists National Convention,

AUGUST 19th to 22nd, 1902,

ASHEVILLE, NORTH CAROLINA.

For this convention the "Big Four Route" (C. C. C. & St. L. Ry.) will sell tickets August 16, 17 and 18, good for return leaving Asheville not later than August 25, at one fare for the round trip from all "Big Four" stations. (\$20.00 round trip from Chicago.)

Florists' Special train will leave Chicago 8:30 p. m. Sunday, August 17th, running via "Big Four" to Cincinnati, thence via the Queen & Crescent and Southern Railways. Monday forenoon will be spent in Cincinnati, sight-seeing, etc., leaving there at 2 p. m. on the Florists' Special. Every florist should make a big effort to attend this convention, the first to be held in the beautiful Southland.

For berths in sleepers from Chicago or Cincinnati, and further information call on, or address E. F. WINTERSON, President Chicago Florists' Club, 45 Wabash Avenue, or J. C. TUCKER, Gen'l. Nor. Agt. "Big Four", 231 S. Clark Street, Chicago.

Did You Ever Try to Force Lilies for Xmas?

Our Retarded or Cold Storage LILIUM LONGIFLORUM Readily Answer the Call and it will Certainly Pay You to Try Some.

Do not confuse these with some old left-over stock that may be offered cheap elsewhere, which would only lead to disappointment and be dear at any price.

The retarding of LILIUM LONGIFLORUM bulbs in cold storage with us is no longer an experiment, but an unqualified success.

Our bulbs are imported and packed specially for cold Storage and we are the pioneers in this line.

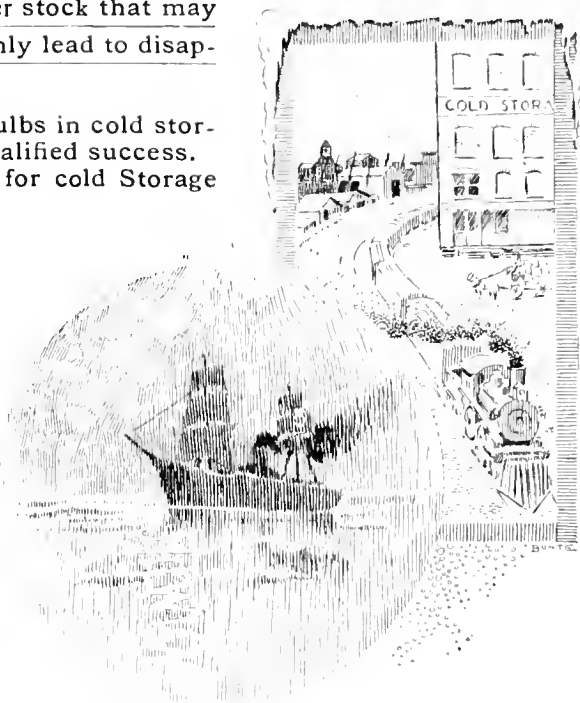
Our RETARDED or COLD STORAGE LILIUM LONGIFLORUM bulbs (owing to our secret method of storage) are as perfect to-day as when they reached us from Japan in November last, and are guaranteed to be in first-class condition before shipping. SEE SAMPLE CASE ON EXHIBITION AT CONVENTION. Price 7 to 9-inch Bulbs, 300 in a Box, \$7.50 per 100; \$60.00 per 1000. One whole Box at 1000 rate.

PRICES UPON ALL OTHER BULBS UPON APPLICATION. ASK FOR CATALOGUE.



CLUCAS & BODDINGTON CO.

812-814 Greenwich St., corner Jane St.,
Telephone 4390 Spring. NEW YORK CITY.
IMPORTERS, EXPORTERS AND GROWERS'
AGENTS OF SEEDS, BULBS AND PLANTS.



French Hyacinths.

WHITE ROMAN, sound, clean	12	100	1000
11-13 ctm.....	\$.30	\$2.20	\$20.00
11-15 ctm.....	.40	2.40	23.00
12-15 ctm.....	.45	2.60	23.50
NARCISSUS, True Grandiflo. Paper			
White, 13 ctm. up.....	.15	1.00	8.00
FREESIAs, Best white stock, choice			
3/4-inch up.....	.05	.40	3.00
8 lect 1/2-inch up.....	.10	.60	4.50
Extra large size.....	.15	.85	7.00
CYCLAMEN PERSICUM GIGANTEUM,			
Superb English Giant strain, best mixture, white, rose, crimson with red eye, large bulbs..	1.00	6.50	
OXALIS, Bermuda Buttercup.....			
1st size.....	.15	.90	8.00
2nd size.....	.10	.75	6.00
LILIES, Harrisii, healthy unblemished Bermuda stock			
5 to 7-inch.....	.60	4.50	44.00
7 to 9-inch.....	1.50	10.50	100.00
9 to 11-inch.....	2.75	20.00	
LILIUM CANDIDUM, North'n grown thick petaled, Florists' best paying stock, 1st size.....	.65	4.75	45.00
2d size.....	.60	4.50	43.00
CALLA AETHIOPICA, Our well known stock, grown and sent out by us for the past 20 years..			
3 to 5 inch circ.....	.60	4.00	35.00
4 to 6 inch circ.....	.75	5.50	50.00
5 to 7 inch circ.....	1.00	7.50	70.00
Monster (scarce).....	1.50	10.00	
PANSY SEEDS to sow now, Berger's Never Fail Mixture, our own selection of the finest strains all sorts, all colors, 10.0 seeds, 25c; 50.0 seeds, \$1.00; ounce, \$2.50.			
PANSIES in separate colors. Yellow, white, black, violet, purple, blue, red, copper, brooze, four colored, 10.0 seeds, 25c; 50.0 seeds, \$1.00; ounce, \$2.00. Any named sort in stock. Odier, Cassier, Trimardeau, Bugnot, 1000 seeds, 25c; 5000 seeds, \$1.00.			

Our 1902-3 complete catalogue will be ready August 15. If not received, a postal will bring it.

Address **H. H. BERGER & CO.,**
Established 1878 47 Barclay St., NEW YORK CITY.

Lily of the Valley From Cold Storage.

Cold storage valley should be used considerably more, particularly for Thanksgiving, Xmas, New Year and in January. At that time even the very best selected newly imported pips don't bring any foliage, come uneven and hardly pay; very often they turn out a total failure, even with the best attention and very best arrangements. Cold Storage Valley brings flowers and foliage without much trouble and without special arrangements. Care should be taken to grow them as cool as possible and without bottom heat.

My stock is very fine this year and promises to give good results. Place your orders now.

Fine pips \$13.00 per 1000; Case of 2,500, \$31.50; Per 100, \$1.50.

Fancy Cut Valley Always on Hand.

H. N. BRUNS, 1409-1411 W. Madison St., CHICAGO.

ROSES FOR WINTER FLOWERING

PERLES, IVORY, American Rose Co.'s Stock, \$9.00 per 100.
BRIDES, BEAUTIFULS, CONTIERS,
MME. HOSTE, SAFRANO, GOLDEN CATES,
3-inch pots, \$6.00 per 100.

GRAFTED GOLDEN CATE, very fine, \$12.00 per 100.
BRIDESMAID, 3 1-2-inch pots, \$12.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

PLACE YOUR NAME.....

and your specialties before the purchasing florists of the entire country by advertising in

SEND ADVT. NOW. **THE AMERICAN FLORIST.**

Springfield, Ohio.

LOCAL BUSINESS MEN TAKE OVER AN ESTABLISHED GREENHOUSE PLANT.—A NEW ROSE GROWER.—A BIG ADDITION.

The John A. Doyle establishment, which changed ownership June 1, Mr. Doyle retiring from the business, will hereafter be conducted by the Springfield Floral Company, which has been incorporated with \$40,000 capital stock. The officers are: President, John Mellinger; vice-president, Judge Goodwin; secretary, L. Bradford; treasurer, V. V. Smith; superintendent, Gus. T. Schneider. The other stockholders are Dr. Gotwald and Geo. Steele. The above are all business men of Springfield. Mr. Schneider, superintendent and manager, has been in the business for the past seven years, beginning with the Geo. H. Mellen Company and later going with Schmidt & Botley. The firm will continue the general plant business.

Harry Reeser, brother of Will Reeser, of Urbana, has built four houses and will devote same to the growing of young roses for wholesale trade.

The Good & Reese Company says business has been good the past season and is adding a large range of new houses. C. W. S.

New Orleans.

HORTICULTURAL SOCIETY ELECTS NEW OFFICERS.—ASSOCIATION PROSPEROUS.—TRADE DULL.

The election of officers to serve for the ensuing year took place at the last meeting of the New Orleans Horticultural Society. The following members were elected: President, C. R. Panther; vice-president, A. Chopin; secretary, D. Newsham; treasurer, John Eblen. The general opinion was that the society is well directed and everybody hopes that the new officers will bring fresh life and success to the association. At the supper which followed toasts were numerous.

Business is very dull. Dry weather for several months has made everything worse than usual at this time of the year. And it will be some time before we can hope of any change for the better. M. M. L.

MANCHESTER, MASS.—The annual sweet pea show of the North Shore Horticultural Society was held at Lee's Hall on July 24 and was an unusually brilliant display of summer blooming flowers.

ESTABLISHED 1802

THORBURN'S SEEDS

FREESIAS, CALLAS, LILIUM HARRISII, ETC., ETC.

If our trade bulb list has not been received, we shall be glad to send it on application.

J. M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK



D. LANDRETH & SONS, 1217 MARKET ST. PHILADELPHIA, PA.

BULBS! BULBS!

Excelsior Pearl Tuberose and Caladium Esculentum Bulbs and Canna R.'s, leading varieties.

JNO. F. CROOM & BRO., Magnolia, N. C. Please mention the American Florist when writing.

NARCISSUS

"Paper White Grandiflora"

BLUE RIBBON STOCK

\$1.00 per 100.

\$9.00 per 1000.

Wholesale BULB LIST on Application.

BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.

WHY PAY MORE?

Holland Hyacinths for forcing or bedding, large bulbs, equal quantity red, white, blue, per 1000, \$20. mixed colors, \$18 00.

Tulips, separate colors, rose, white, yellow, variegated, \$6.00 to \$8 00.

Narcissus in fine garden mixture, double, single, \$7 00.

Tulips in fine mixture, per 1000, \$5.50.

Crocus by the million, separate colors, per 1000, \$2.00.

" " in fine mixture, per 1000, \$1.50.

For less than 500, add 10 per cent to the price per 1000.

OTHER BULBS AND PLANTS CHEAP.

Azalea Indica, leading sorts, \$15.00 to \$50 00 per 100 in Belgium; also Palms, Araucarias and Bay Trees.

Japan Bamboo Plant Stakes, 4 to 6 feet, for 'Mums, etc., per 1200, \$6.00.

CASH WITH ORDER PLEASE. SEND FOR WHOLESALE CATALOGUE.

C. H. JOOSTEN, IMPORTER, 178 Chambers St., New York

Vick's Seeds

We carry a full line of DUTCH BULBS, LILIES in variety, PERENNIAL PLANTS, SHRUBS, SMALL FRUITS, FLORIST'S SEEDS, and FLORIST'S SUPPLIES.

Vick's Wholesale and Retail Fall Catalogues

are now ready for distribution. Send for them. FREE.

James Vick's Sons = = Rochester, N. Y.



LILIAM HARRISII.

Early Forcing Bulbs

Are now being delivered. Others all on the way. Let us quote on any you are still in the market for.

ROMANS and Paper Whites

White in the different sizes.
Also Rose, Blue and Yellow.
True White Italian, upright blooming.

Grandiflora, 12 to 13 centimeters.
Grandiflora, Fancy, 13 centimeters and up.
Vaughan's Mammoth "Star" Brand.

Sound bulbs of best flowering quality. The pick of the French crop. Write for Prices.

We have a Full Stock of LILIAM HARRISII.

5 to 7-inch, 400 in case; 7 to 9-inch, 200 in case; 9 to 11-inch, 100 in case.

Now on dock and ready for shipping. Prices on quantity quoted on application. Customers wanting late dug bulbs can still be supplied. We have a few thousand all sizes which we will dig and pack on special orders in thousand lots at quoted rates. Delivery in 2 weeks.

For Christmas Forcing
French Grown
Trumpet Major
Beats the Dutch.
Try a few at least



CALLA AETHIOPICA BULB.

California Callas

NOW ARRIVING.

GROWN for us by Experienced Florists, dug only when well ripened and cured in the shade. They are as free from disease as possible.

Sizes and Prices for Fall Delivery
Healthy Bulbs up to Grade.

ORDER NOW, as there is not a large supply and last season's late orders could not be filled.

Diameter.	Per 100
1 1/4 to 1 1/2-inch	\$5.00
1 1/2 to 1 3/4-inch	7.00
2 to 2 1/4-inch	9.00

Send Us Your List for Estimates.

ALL OTHER BULBS WILL BE ARRIVING SOON AND WE ARE PREPARED TO QUOTE LOWEST PRICES FOR BEST STOCKS.

FREESIAS

NOW ARRIVING.

We always believe in selling this stock by samples and are ready to submit same for comparison.

FRENCH GROWN.

	Per 100	Per 1000
JUMBO.....	\$1.75	\$12.00
MAMMOTH.....	.85	7.50

CALIFORNIA GROWN.

	Per 100	Per 1000
CHOICE.....	\$.50	\$ 5.00
FIRST QUALITY.....	.65	3.00

NOTE LOW PRICES.



FREESIA REFRACTA ALBA.

VAUGHAN'S SEED STORE

84-86 RANDOLPH ST., CHICAGO.

14 BARCLAY STREET, NEW YORK.

Dayton, O.

CORPORATION FORMED TO ENGAGE IN CARNATION GROWING.—A CHANGE IN BUSINESS MEANS NEW RANGE.—GOOD STOCK.—ON TO ASHEVILLE.

Wm. Kiefaber, Sr., has formed a stock company, to be known as the Miami Floral Company, and is building three houses 23x200 each, to be used for carnations only. Ed. Bissell, who has been with J. W. Bernard, Marion, Ind., for the past five years, will have charge of the range. They expect to enlarge the plant as fast as business requires it. The election of officers will take place in the course of a week or two.

G. J. Horlacher has sold his greenhouses on South Brown street to his brother, W. W. Horlacher, who will continue the business. G. J. Horlacher is building three houses 17x150 each about two miles further south on the same street. He intends growing carnations for the wholesale market.

H. M. Altiek, the carnation grower, has part of his houses planted and intends to finish up as soon as possible. He thinks they do better in the houses than in the field. He will attend the convention at Asheville.

John Boehner has some fine roses for this season of the year. His field carnations are looking good. He says he will be at Asheville. C. W. S.

Lafayette, Ind.

BUSY SEASON AT THE DORNER ESTABLISHMENT.—REBUILDING IN PROGRESS.—CARNATION PLANTS LOOKING WELL.

The buzz of the saw and the fall of the hammer are familiar sounds on Dorners' place at present. Five houses are being rebuilt and remodeled and when completed it will be a model range in all that this term implies. Business throughout the spring and summer season has been all that could be expected. There has been a brisk demand for plants of all sorts and for all occasions and they have enjoyed a very good business in cut flowers. Carnation plants in the field look well, healthy and vigorous, and that despite the rainy season, which, in some sections has had a decidedly injurious effect upon carnation plants. In all likelihood these will be housed early. Of course a considerable number of seedlings will be benched for trial and while it may be premature to talk of the next one to be put on the market, one thing is certain, it will be well worthy of the introducers' reputation. Mr. Dorner never takes blind chances but is invariably sure before going ahead. NOMUS.

BENTON HARBOR, MICH.—A. E. Crooks is progressing finely in the removal of the Archer greenhouses, recently purchased at St. Joseph, and their re-creation here. He will be well fixed by fall.

We always have in stock the finest grade

OF SPHAGNUM MOSS

for florists' work, and at prices that are right. 2 bales \$1.50; 10 bales \$8.00. Moss for Orchid growing, \$1.00 a sack.

Z. K. JEWETT & CO., SPARTA, WIS.

GALAX Bronze or green, 75c per 1000, in 2 00 lots or over; single 100, \$1.00. Fern, Fancy, \$2.50 per 1000; Fern, Dagger, \$1.50 per 1000. Leucothæ Sprays, bronze and green, assorted sizes, \$1 per 100. Green sheet moss, \$2.50 per hbl. bag.

L. J. KRESHOVER, 110-112 W. 27th Street, NEW YORK CITY. Telephone call, 597 Madison Square. HARRY A. BUNYARD, Mgr.

INCORPORATED.

CAPITAL \$10,000.

KENNIGOTT BROS. CO. Wholesale Cut Flowers

42-44 Randolph St., CHICAGO, ILL.

FOUNDED twenty years ago, this business has developed steadily, keeping step with the marvelous growth of the florist trade in the United States and at all times setting the pace for those who handle cut flowers on commission. A close and painstaking attention to the needs of the out-of-town buyer has built up a shipping trade which, with the backing of capital ample to its needs, is the largest and most prosperous in the west, if not in the entire country. That this business is solidly established on the foundation of long years of square dealing is proven by the fact that each season has shown an increase requiring constant addition to our facilities. This year we have practically doubled our capacity, doubling our floor space and counter room and building the grandest cool room in the trade. It has always been our policy to handle stock by the most approved methods and now we have a refrigerator 36x18x7 feet, of solid cement, floor, walls and ceiling, impervious to heat, moisture and all gases, which will improve the quality of stock immeasurably. It is an improvement both buyers and growers will appreciate.

This house has earned a reputation for having supplies of stock in season when other houses cannot fill orders. Our unequalled resources help to bring us the bulk of the shipping trade.

While Kennicotts seldom if ever are at a loss for stock to fill orders, our facilities for the prompt handling of receipts and shipments will permit us to largely increase our business again this year and we will take on a number of producers of first-class stock between this date and October 1. Write us what shipments you have to offer. Payment weekly.

KENNIGOTT BROS. CO.

42-44 Randolph Street, Chicago, Illinois.

FLINT KENNICOTT, President. G. H. PIESER, Secretary. E. E. PIESER, Treasurer. R. R. JAMPOLIS, Attorney.

SMILAX

2-inch, strong, 75c per 100.

SPRENGERI, 2-inch, strong, \$1.50 per 100. 2½-inch, strong, \$2.00 per 100.

M. J. COVENTRY, Fort Scott, Kan.

SMILAX

2,000, strong, 2½-inch, \$15.00 per 1000; \$2.00 per 100.

MURRAY, the Florist, PEORIA, ILL.

J. B. DEAMUD, WHOLESALE CUT FLOWERS, 51 WABASH AVE., CHICAGO.

Announcement.

WE wish to advise our many friends and customers in the trade that we have made arrangements with some of the very best growers for this season's supply and will have an unlimited quantity of American Beauties, Brides, Bridesmaids, Meteors, Liberty, Golden Gates and Ivory Roses. Also all varieties of Fancy and Standard Carnations, including all the newest varieties; Wild Smilax, Asparagus Plumosus, Asparagus Sprengeri, Adiantum, Smilax and Fancy Ferns. We are supplying now, and will continue to throughout the season, the very best Valley that comes to this market.

If there is anything that your trade demands and the other fellow cannot supply it, write, telephone or telegraph DEAMUD, as we have the most complete stock in Chicago.

J. B. Deamud,
51-53 Wabash Ave., Chicago.

LILY of the VALLEY, ORCHIDS, AMERICAN BEAUTIES.

ROSES. CARNATIONS, VIOLETS, CHRYSANTHEMUMS.

NORTHERN AGENT for CALDWELL THE WOODSMAN CO.'S WILD SMILAX.

LILLIAN POND.



Front. Reduced one-fourth.

PRICES.

Per doz.....	\$ 1.50
25.....	3.00
50.....	5.00
100.....	10.00
250.....	23.00
500.....	37.50
1000.....	75.00



Back. Reduced one-fourth.

Long, strong stems. Flowers 3 1-2 to 4 inches. Fine form and very fragrant, strong calyx. Continuous and early bloomer.

DELIVERY COMMENCES FIRST WEEK IN JANUARY.

We have had the exclusive sale of the Lillian Pond during the past four years; there is no other white carnation shipped us that is so much in demand as the Lillian Pond. They were always ordered in advance at a price in excess of other white carnations. It is a good commercial flower, stands handling and shipping well, large, fine form, strong stems, a good keeper and very fragrant.

(Signed) CITY HALL CUT FLOWER MARKET, 15 Province St., Boston, Mass.
WELCH BROTHERS, Props.

S. J. REUTER, Westerly, R. I.

THE PIERSON FERN Nephrolepis Piersoni.

**The Most Valuable Novelty Introduced
In Many Years. Awarded**

GOLD MEDAL

Massachusetts Horticultural Society, March, 1902. A rare distinction, having been awarded only a very few times in the history of the society. Also Gold Medal by New York Horticultural Society, May, 1902, for the best horticultural novelty. The highest honors that can be bestowed on any horticultural novelty in America. These very high awards testify to the sterling merit of **Nephrolepis Piersoni**.

Send for our Illustrated List giving full description.

Nephrolepis Piersoni is as easy to grow and propagate as the well-known Boston Fern, of which it is a sport and which it will assuredly supplant in popular favor.

**THIS WILL BE A MONEY
MAKER FOR YOU!**

See our exhibit of this at the S. A. F. Convention, Asheville. Will be introduced to the trade in spring, 1903. Demand is sure to be enormous. Place your order at once in order to secure early delivery, as orders will be filled strictly in rotation.

Prices: \$9.00 per doz; 50 plants at 60c each; 100 plants at 50c each; 500 plants at 45c each; 1,000 plants at 40c each.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

ENCHANTRESS

QUEEN OF CARNATIONS.

Of all Varieties it is the **Largest and Best**



Light pink, deepening toward center, deeper than Daybreak at its best, outclassing all others.



Lawson stem and calyx that never bursts, exceeding four inches when full, a free bloomer like the Lawson.



ENCHANTRESS is a Lawson seedling, originated by Peter Fisher, who says: "I consider **ENCHANTRESS** the best seedling I have ever raised, as far ahead of Lawson as Lawson was ahead of everything else when sent out." Delivery of rooted cuttings begins January 15, 1903.

Over 195,000 Already Booked!

12.....\$3.00	1,000.....\$100.00	5,000.....\$450.00
100.....12.00	2,500..... 237.50	10,000..... 800.00

COME AND SEE IT GROWING AFTER OCTOBER 1.

J. D. Thompson Carnation Co.

Eastern Agent:
PETER FISHER, ELLIS, MASS.

JOLIET, ILL.

THE MICHIGAN CUT FLOWER EXCHANGE

WM.
DILGER
Manager



WHOLESALE CUT FLOWER
COMMISSION DEALERS.....

Full Line of Florists' and Greenhouse Supplies.

Special Attention paid to Shipping Orders.

Don't forget to write us for **FANCY FERNS**. We are
Headquarters in the Middle States. **Any Number,**
Any Time, the year around. Let us figure with you.

While at Asheville don't fail to get a Sample of **FLORAZENOLEUM** Death on Mealy Bug, Thrip,
Scale, Black Apis, Etc.

26 Miami Avenue, Detroit, Mich.

LARGE PROFITS FROM ADVERTISING.

Joliet, Ill., August 7th, 1902.

The American Florist,
Chicago, Ill.

Gentlemen:--

Replying to your inquiry as to the amount of business our advertisements in the American Florist have brought us in the past year, would say, that we use the card system for advertising, and have kept accurate account of the returns from our advertisements; that is, giving due credit to our different advertising mediums for orders received. We find our advertisements with you for the past year have cost us \$172.65, and we have received orders from same to the amount of \$5,336.55.

Yours very truly,

(Signed) J. D. THOMPSON CARNATION CO.

PETER REINBERG

51 Wabash Ave., - CHICAGO, ILL.

Carnation Plants.

Strong, clean, healthy plants of good size, from the field.

	Per 100	Per 1000		Per 100	Per 1000
MRS. LAWSON,	\$7.00	\$60.00	NORWAY,	\$5.00	\$40.00
MRS. BRADT,	7.00	60.00	MARQUIS,	5.00	40.00
PROSPERITY,	5.00	40.00	WHITE CLOUD,	5.00	40.00
GENEVIEVE LORD, per 100, \$5.00; per 1000, \$40.00.					

With 800,000 square feet of glass on North Robey street, Chicago, and 100,000 feet at New Castle, Ind., (Reinberg & Weiland) we are the largest producers of cut flowers in America. Better begin your cut flower buying this fall where you can rest assured of getting what you want all through the season.

We are now getting a first-class cut of summer stock and

THIS FALL

we shall be right in line for business with very large supplies of the very highest grade of cut flowers. Our place contains 500 000 feet of glass and the following are some of the plants we shall cut from:

**60,000 'MUMS, 54,000 BEAUTIES,
55,000 TEA ROSES, 80,000 CARNATIONS,
5,000 HARRISII LILY PLANTS.**

All through our stock the varieties are the newest and best and the quality of the cut flowers will, as in the past, compare favorably with the stock produced by any other grower in the country. We want your business from the beginning to the end of the season.

CARNATION PLANTS.

Our carnation plants have been on fairly high light soil this summer and made good growth; some varieties are very fine and all are clean and healthy. We find ourselves with a small surplus. Write us your needs for pricing:

FLORA HILL,
WHITE CLOUD,
THE SPORT,
G. H. CRANE,
AMERICA,
MRS. LAWSON,
NORWAY,
PROSPERITY,
THE MARQUIS.

Wietor Bros.

51 Wabash Ave.

.....CHICAGO.

Cincinnati.

TRADE FAIRLY HEAVY AND STOCK SUFFICIENT FOR ALL DEMANDS.—SOME LINES SELL CHEAPLY.—WILL ENTERTAIN VISITORS.—CONVENTION WANTED.—NOTES.

At a meeting of the Florists' Society committees were appointed to receive the florists passing through this city on their way to the convention. The following were assigned to the different stations: Grand Central Depot, Albert Sunderbruch, Max Rudolph, Geo. Murphy and Gus Adrian; Pennsylvania Station, Ben. George, Wm. Schuman and James Allan; C. H. & D. depot, Wm. Murphy and Wm. Rodgers. These committees will take charge of the visitors and escort them to special cars which will take them to Eden Park, where a lunch will be served. After the business meeting there was a social time to which the ladies were invited, and they all expressed a desire to come again. No doubt we will have more such sessions in the future.

Business continues to hold up well, with a plenty of flowers to fill orders. Asters are becoming a glut on the market, but this is to be expected at this season. George & Allan are sending in some very choice ones, with good stems, and realize \$1.50 per hundred. Nice lots of Liliun album and L. roseum are coming in and fetch \$4 per hundred.

Quite a number of Beauties with stems ten to eighteen inches long are being shipped into the city, but \$4 per hundred seems to be the best price received for them. This hardly pays the grower.

The Citizens' League has requested the local florists to invite the S. A. F. to hold its convention in this city in 1903. Hope we will be able to land it, for everybody will be well taken care of.

Witterstaetter continues to send in some very good blooms of his new white carnation. This seedling undoubtedly is a very good white variety for summer blooming.

Hardesty & Company had a tray of Eucharis Amazonica in their window the beginning of the week, which attracted a good deal of attention.

Alex. Ostendorp is on his vacation this week to Niagara Falls. D.

PORTLAND, ORE.—Miss Lillian Pfunder, daughter of Louis G. Pfunder, and Wm. E. Mitchell, a broker, of New York, were married June 18. The couple will make their future residence in New York city.

CARNATIONS

I have a few nice plants to offer of the following varieties, field-grown: Crocker, Gomez, Marquis, Roosevelt and Flora Hill, also 500 of the new pink Geranium Jean Viaud from 3 and 4-inch pots at Bargain Prices.

W. W. Coles, Kokomo, Ind.

FIELD-GROWN CARNATIONS

200 Marquis, 600 Lawson, 700 Norway, \$6 per 100. 300 Flora Hill, 1000 Crane, 800 Triumph, 800 Daybreak, \$5.00 per 100; \$15.00 per 1000. Cash.

W. SABRANSKY, KENTON, OHIO.
Please mention the American Florist when writing.

Carnations! Carnations!

The Best Field-Grown Stock. Every One a Choice Selected Plant.

	Per 100	1000		Per 100	1000
Mrs. Thos. W. Lawson	\$6 00	\$50.00	America	\$ 1.00	\$5.00
Flora Hill	5.00	45.00	Jubilee	4.00	35.00
Glacier	5.00	45 00	Daybreak	4 00	35.00
Bon Homme Richard	5.00	45.00	Gen. Gomez	4.00	35.00

Order Quickly. Plants reserved for later shipment if desired. Terms Cash.

H. W. BUCKBEE, ROCKFORD SEED FARMS, FOREST CITY GREENHOUSES, **ROCKFORD, ILL.**

Carnation Plants

50,000 Field-Grown

Including large quantities of the following varieties: Flora Hill, White Cloud, G. H. Crane, Daybreak, Chapman, Eldorado, Maceo, Irene, Guardian Angel, Genevieve Lord and Peru. If you are going to buy, write and get prices before placing your orders. Can make you price we know is right. Stock in fine condition and plants fair size.

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

E. T. GRAVE,
Florist, Richmond, Ind.

The Prize-Winning Carnation,

Pres. McKinley

Our Leader for 1903.

CARNATIONS, ROSES, VIOLETS and 'MUMS,
Fancy Cut Flowers and High Grade Cuttings.

Cressbrook Carnations

From field, nice strong plants, \$10.00 per hundred; \$75.00 per thousand.

Order early as I have only a few thousand left.

C. WARBURTON,
FALL RIVER, MASS.

FIELD GROWN CARNATION PLANTS.

Maceo, Gomez, Flora Hill, Joost, Progress and Bradt, \$5.00 per 100; \$40.00 per 1000. Samples by mail 10 cents.

The Albert H. Brown Co., Westboro, Mass.

ANNOUNCEMENT!

In the Spring of 1903 I will distribute a Seedling White Carnation to be known as

MURPHY'S WHITE.

Parentage: Bridesmaid and Lizzie McGowan. Its good qualities are: Vigorous and healthy grower, early and continuous bloomer; stem very strong 2½ to 3½ feet in length; calyx one of its best points. Does not burst; flowers fragrant, and from 2½ to 3 inches across; roots like Lizzie McGowan and ships like Bridesmaid. A1 good keeper, both on and off the plant.

Its bad qualities: Not an exhibition variety for its size is against it. Flower buds have a crimped appearance early in the season, but this disappears later.

For stem, calyx, blooming qualities, and as an easy variety to do in the field and house, I place it on the market as a Commercial White Carnation.

I purchased it from the originator, C. C. Murphy, where I have observed it growing the past four years. It can be seen also at the following growers' who have kindly given it a place in their fields for trial this summer: A. N. Pierson, Cromwell, Conn.; Geo. Osborn, Hartford, Conn.; Fred. Burki, Pittsburg, Pa.; Peter Reinberg, Chicago, Ill.; S. M. Harbison, Danville, Ky.; Thos. Windram, Ft. Thomas, Ky.; Albert Sunderbruch, Cincinnati, O.; J. A. Peterson, Cincinnati, O.

Cuttings will be select stock, well rooted. Prices within reach of every grower.

Orders Booked for January Delivery:

100	at \$6 00	per 100
1,000	at 50.00	per 1000
5,000	at 45.00	per 1000
10,000	at 40.00	per 1000

WM. MURPHY,
Wholesale Carnation Grower,
Station F, CINCINNATI, OHIO.

Miss Louise Faber

The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink, similar to a well colored Bridesmaid rose and average 2½ inches. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for Jan. delivery.

FIGG & FABER, SAN MATEO, CAL.



Begonia Gloire de Lorraine.

(TRUE)

FOUR-INCH POT STOCK.

Will make specimen plants as good as the illustration shows for the holidays.

Only strictly first-class goods shipped.

\$40.00 per 100.

NO DISCOUNT.

J. A. PETERSON,

McHenry Avenue, Westwood, CINCINNATI, OHIO.

SAMPLES OF BEGONIA GLOIRE DE LORRAINE AT FLORISTS' CONVENTION.

Saginaw, Mich.

GROWERS FIND THE WEATHER THEIR ONLY CAUSE FOR COMPLAINT.—RAINS HASTEN THE BENCHING OF CARNATIONS.—PLACES ALL IN GOOD SHAPE AND PROFITABLE SEASON SEEMS ASSURED.

Scarcely a day has passed in weeks without a downpour, but this is the only complaint expressed on any side. Fortunately, carnation plants in the field seem to be holding their own. Those planted on high ground look especially well and promising. Early planting seems to find many adherents among the growers this season. The consensus of opinion is that a plant in the house, out of harm's reach, is worth two in the field, exposed to the elements. Aside from this immediate reason, many believe that plants housed early will make their growth and thrive equally as well on the bench as in the field.

Chas. Fruch & Sons have added an American Beauty house to their already extensive range. Among other things to be grown in quantity during the coming season are poinsettias. The demand for these, both wholesale and retail, has invariably, during the last two or three seasons, exceeded the supply. Their red scedding carnation, now in its third year, bids fair to make its mark. It possesses size, color, length of stem, vigorous constitution and is a fine producer. It will be shown in Brooklyn in February.

J. B. Goetz has planted one of his large carnation houses with Oriole. Not a fancy, it is a remarkable producer. It is Mr. Goetz's intention to plant all his carnations within the next few days. This accomplished he will start to remodel five of his houses, to conform with the rest of his range, which is up-to-date throughout. Roses have already been planted and are doing well.

The Roethke Floral Company has confined building operations this season to a fine stable. Their roses, both young and old plants, never looked better. As to carnations, Ethel Crocker is fairly in its glory at present; through the winter season, however, it is inclined to go to grass. Flora Hill is producing remarkable buds for midsummer. Field plants will be housed soon.

Mrs. Geo. Waldhaur has no complaints to make, except it be about the weather. She reports an exceptionally fine spring trade and enough to keep her busy throughout the summer. NOMS.

Begonia Rex

Thirty named varieties; strong plants, from 2½-inch pots, \$5.00 per 100.

Carex Japonica Var.

One of the most useful decorative grasses. Makes a pretty plant for the table or conservatory. Now is the time to get your supply for winter. Fine 2½-inch pot plants, \$2.50 per 100.

Cyperus Alternifolius

Bushy, outdoor grown plants in 3-inch pots, extra strong, ready for a shift, \$4.00 per 100.

Violets—Princess of Wales.

Large, field-grown clumps, free from disease. Plant now to get best results, \$5.00 per 100.

**Nathan Smith & Son,
ADRIAN, MICH.**

Please mention the American Florist when writing.

**Cycas Revoluta**

From 25c to \$3.00 each. We have an immense stock to offer and can assure good values.

The GEO. WITTBOLD CO.**1657 Buckingham Pl., Chicago.**

We are Headquarters for

FIELD GROWN Hardy Plants.

And carry an immense stock of Anemones, Clematis Paniculata, Deutzia, Eulalia, Funkia, Gaillardia, Helianthus, Hollyhocks, Phlox, Primulas, Spiraeas, Yucca, etc. A Choice collection of new and old varieties.

Send us your list of wants for special prices.

VICK & HILL CO.,**Box 613. ROCHESTER, N. Y.****WITTBOLDII FERNS**

2½-in., \$5.00; 3-in., \$8.00; 5-in., \$15.00.
Bench plants all sold.

25 FINE RUBBERS

3 feet to 4 feet, \$1.00 each or the lot for \$20.

CASH PLEASE.

A. J. BALDWIN, NEWARK, O.

Please mention the American Florist when writing.

CYCLAMEN

Persicum Splendens Giganteum.

Finest strains in the world, in four true colors, well-grown plants, from 2½-in. pots, \$4.00 per 100; \$35.00 per 1000. Extra selected, \$5.00 per 100; \$40.00 per 1000. From 3-inch pots, \$7.00 per 100; \$65.00 per 1000.

PAUL MADER, East Stroudsburg, Pa.**PÆONIAS FOR FALL...**

10 distinct, best kinds, \$10.00 per 100.
Poets Narcissus, dbl. & sgl., home grown, \$5 a 1000.
Clematis, large flowering, \$2.50 per doz.; \$16 per 100.

SMILAX A few hundred fine heavy plants, one year, \$3 per 100.

F. A. BALLER, Bloomington, Ill.

PÆONIAS

OUR SPECIALTY. Best Collections.

Strong plants. True to name. Catalogues free.

A. DESSERT, CHENONCEAUX, FRANCE.**CHOICE PÆONIAS**

WE have a limited quantity of choice Pæonias suitable for commercial cut flower work, which are named and described as follows:

(Price for natural divisions 3 to 5 eyes.)

Lohengrin, deep rose pink, creamy rose center with crimson tips. \$2.50 per doz.; \$20.00 per 100.

Pink Beauty, bright rose pink with silvery rose center. Early. \$2.00 per doz.; \$15.00 per 100.

Queen Victoria, white; crimson petals in center. \$2.50 per doz.; \$20.00 per 100.

Mont Blanc, snow white guards; center finishing creamy white. Mid-season. One of the best shippers. \$5.00 per doz.; \$40.00 per 100.

Gigantea, clear silvery rose, 6 to 9 inches diameter. Very early. \$1.00 each; \$9.00 per doz. Two to three eyes.

Pulcherrima, white, delicately traced rose pink. \$2.50 per doz.; \$20.00 per 100.

Festiva Maxima, enormous bloom, snow white; crimson spots in center. \$7.50 per doz.; \$30.00 per 100.

Humei, clear soft pink. Best very late pink. \$2.00 per doz.; \$15.00 per 100.

Paganini, pink with sulphur white center. Large, fragrant. \$2.00 per doz.; \$15.00 per 100.

Humea Alba, delicate flesh pink; creamy white center, flushed. Price for good roots 2 to 3 eyes \$1.00 each.

Baron de Rothschild, silvery rose, center shaded purplish rose. \$1.00 per doz.; \$8.00 per 100.

Achillea, very large early bloom, flesh white; fragrant. \$4.50 per doz.; \$35.00 per 100.

Chrysanthemiflora, deep rose, creamy pink center, deep pink tuft. \$4.50 per doz.; \$35.00 per 100.

Officinalis Rubra fl. pl., the old well known early dark red. \$2.00 per doz.; \$12.00 per 100.

Officinalis Rosea, double, rosy red. \$2.50 per doz.; \$15.00 per 100.

Officinalis Mutabilis, or *Alba plena*, light satin rose changing to white. \$3.50 per doz.; \$25 per 100.

Officinalis Rosea Superba, enormous bloom, clear rose pink tinted salmon. The earliest pure pink pæonia. Cut blooms sell for double the price of any other pæonia at its season. \$3.50 per doz.; \$25.00 per 100.

3 to 5 eyes save where noted.

Send your orders early. Shipments will be made about the middle of September. Orders will be filled strictly in rotation. First come first served.

**The Cottage Gardens,
Queens, Long Island, N. Y.**

Please mention the American Florist when writing.

PALMS, FERNS, ETC.

We offer Good Values, Saving in Express and Freight to Buyers West of Ohio.

ARAUCARIA EXCELSA.

Size Pots.	Height.	Whorls.	Each
5-inch	12 inches	3 to 4	\$.75
5-inch	15 "	3 to 4	1.00
5-inch	18 to 20 "	4 to 5	1.25
7-inch	22 to 24 "	4 to 5	1.50
8-inch	28 to 30 "	5 to 6	2.50

ARAUCARIA EXCELSA GLAUCA.

Size Pots.	Height.	Whorls.	Each.
5-inch	10 inches	2 to 3	\$.75
5-inch	12 "	3 to 4	1.00
5-inch	14 "	3 to 4	1.25
7-inch	24 "	5 to 6	2.50
7-inch	26 "	5 to 6	3.00

ARAUCARIA ROBUSTA COMPACTA.

Size Pots.	Height.	Whorls.	Each.
5-inch	10 inches	2 to 3	\$1.25
5-inch	12 "	3	1.50
6-inch	11 "	3	1.75
7-inch	18 "	3 to 4	2.00
7-inch	20 "	3 to 4	2.50
7-inch	22 "	4	3.00

PANDANUS UTILIS.

Size Pots.	Height.	Each.	Doz.	Per 100
3-inch	8 to 10 inches	\$.15	\$ 1.50	\$12.00
6-inch	20 to 22 "	.75	8.00	
7-inch	24 to 26 "	1.00	12.00	

ARECA LUTESCENS.

Size Pots.	Height.	Each.	Doz.
5-inch	18 inches, 3 plants in a pot.	\$.50	\$6.00
5-inch	24 " 3 " "	.75	9.00
6-inch	36 " 3 " "	1.50	
7-inch	40 " bushy	2.00	

FICUS ELASTICA—RUBBER TREE.

PERFECT, SHAPELY PLANTS.

Size Pots.	Height.	Each.	Doz.	Per 100
5-inch	12 to 14 inches	\$.50	\$5.00	\$49.00
5-inch	15 to 18 "	.60	6.00	

PANDANUS VEITCHII.

Size Pots.	Each.	Doz.
3-inch	\$.50	\$5.00
4-inch	.75	9.00
5-inch	1.00	12.00
6-inch	1.50	18.00
7-inch	2.50	
8-inch	3.50 to 5.00	

The above are in fine condition, well colored.

KENTIA BELMOREANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	6	18 to 21 inches	\$.75	\$ 7.50
5-inch	6 to 7	18 to 20 "	.85	9.00
5-inch	5 to 6	22 to 24 "	1.00	12.00
6-inch	6 to 7	28 to 30 "	1.50	18.00
7-inch	6 to 7	30 to 32 "	2.00	24.00
8-inch	6 to 7	36 "	2.50	
8-inch	6 to 7	38 to 41 "	3.50	
8-inch	5 to 6	42 to 44 "	5.00	
9-inch	6 to 7	45 to 50 "	8.00	
10-inch	7	6 feet	18.00	
14-inch tub	7	6 to 7 feet	25.00	

LATANIA BORBONICA.

Size Pots.	4 to 5 character leaves	Height.	Each.	Doz.	Per 100
5-inch	7	20 inches	\$.40	\$ 4.00	\$35.00
6-inch	7	20 to 24 inches	.75	9.00	
6-inch	7 to 8	25 to 30 "	1.00	12.00	
7-inch	8 to 9	25 to 26 "	1.25	15.00	
7 and 8-inch	7 to 8	3 feet	2.00		
8-inch	8	40 to 48 inches	3.00		

KENTIA FORSTERIANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	5 to 6	20 to 24 inches	\$.75	\$ 0.00
5-inch	5 to 6	26 to 28 "	1.00	12.00
5-inch	5 to 6	30 "	1.25	15.00
5-inch	5 to 6	32 to 36 "	1.50	18.00
7-inch	6	36 to 38 "	2.00	24.00
7-inch	6	39 to 42 "	2.50	
8-inch	6	44 to 46 "	3.50	
8-inch	6	48 to 50 "	4.00	
8-inch	6	54 "	6.00	
8-inch	6 to 7	60 "	8.00	
9-inch	6 to 7	72 "	10.00	
10-inch	6 to 7	6 1/2 feet	15.00	
14-inch	7	7 to 7 1/2 feet	25.00	

CYCAS REVOLUTA.

We can supply fine plants, well rooted, with fine, perfect crowns, in sizes from 3 to 10 lb. stems, at an average price of 40c per lb.

PHOENIX CANARIENSIS.

Size Pots.	Height.	Each.
7-inch	24 to 26 inches, stocky plants	\$1.50
9-inch	4 feet, stocky plants	3.00

ASPARAGUS PLUMOSUS NANUS.

We have a very large stock of all sizes.

2 1/2-inch pots	per doz., \$	.75	per 100, \$	7.50	per 1000, \$	75.00
3-inch pots	"	1.00	"	10.00	"	100.00
4-inch pots	"	2.00	"	20.00	"	200.00
5-inch pots, very fine,	"	4.00	"	40.00	"	400.00
6-inch pots,	"	6.00	"	60.00	"	600.00

ASPARAGUS SPRENGERI.

2 1/2-inch pots.	per doz., \$1.50	per 100, \$15.00	per 1000, \$150.00
4-inch pots,	per doz., \$2.50	" 25.00	" 250.00
5-inch pots,	" 5.00	" 50.00	" 500.00

MICROLEPIA HIRTA CRISTATA.

This is one of the best house ferns.

	Per doz.	Per 100
2 1/2-inch pots.	\$.75	\$ 7.50
3-inch pots.	1.25	12.00
4-inch pots.	2.50	20.00
5-inch pots.	4.00	40.00
6-inch pots.	6.00	60.00

Assorted Ferns for fern dishes, our selection, from 2 and 2 1/2-inch pots, per 100, \$3.00.

CELESTIAL PEPPER, OR CHRISTMAS CHERRY.

One of the best plants for Thanksgiving and Christmas sales. We have a large stock of well grown plants.

3-inch pots, strong,	per doz., \$.75	per 100, \$ 6.00
4-inch pots	" 1.25	" 10.00

GERANIUM JEAN VIAUD.

The best of all pink geraniums. Secure stock now.

	Per doz.	Per 100
3-inch pots, strong plants.	\$1.00	\$ 6.00
4-inch pots,	1.50	10.00

We can supply Geraniums in most all the standard sorts, strong plants, 2 1/2-inch pots, per 100, \$4.00; 3-inch pots, per 100, \$6.00.

FIELD-GROWN CARNATIONS.

	Per 100
Wm. Scott.	\$ 5.00
Norway.	6.00
G. H. Crane.	6.00
Estelle.	5.00
Mrs. H. N. Higinbotham.	12.00

BOSTON FERNS.

Large stock of all sizes pot-grown plants. Write for prices.

VAUGHAN'S SEED STORE,
 84-86 RANDOLPH ST., CHICAGO. 14 BARCLAY STREET, NEW YORK.
 GREENHOUSES, WESTERN SPRINGS ILL.

Louisville, Ky.

A VARIETY OF PERSONAL AND TRADE DOINGS.—GROWERS PREPARING FOR ANOTHER BUSY SEASON.—NOTES HERE AND THERE.

C. H. Kunzman's new carnation house 32x120 feet, glazed with 24x36 glass and built with Garland gutters is about completed. He reports his field of carnation plants as being in splendid condition.

Coenen & Baurman have made a specialty of the Gloire de Lorraine begonia and have been very successful, bringing them in at Christmas and Easter in large quantities.

Nanz & Neuner will rebuild one or two houses this summer. Their 300-foot house of American Beauties is doing well and their chrysanthemums are in fine condition.

The Society of Kentucky Florists has held its meetings at Riverview Park during the summer and its members have had a fine time.

Louis Kirch, the carnation specialist, is bringing in splendid stock. F. Walker & Company take the entire cut.

Anders Rasmussen has started to build one large greenhouse on his new place at New Albany, Ind.

Wm. Walker and Wm. Mann have gone to Atlantic City to spend their vacation.

Summer trade has kept up pretty well, there being considerable funeral work.

Victor Mathis is cutting some nice Kaiserins, Bridesmaids and Brides.

J. A. Peterson, of Cincinnati, was here the other day on a business trip.

Herman Kleinstark's new residence is nearly completed.

C. W. Reimers is cutting fine Beauties at present.

E. G. Reimers will build four houses this fall. H. G. W.

MANSFIELD, WIS.—R. E. Macklin has done a good business since he established here in 1900. He proposes to soon add a new house, which will increase his facilities fifty per cent.

6,000 VERY FINE FIELD-GROWN

Carnations

that we guarantee will please anyone. Write for list and prices.

FURROW BROS., Guthrie, Oklahoma.

CARNATIONS

Strong and absolutely healthy: F. Hill, W. Cloud, M. Wood, white; Daybreak, G. Lord, Scott, Joost, Triumph, pink; America, red; Mrs. Bradt, variegated; Gomez and Maceo, crimson; \$5.00 per 100; \$40.00 per 1000. RUBY KING, our seedling in its fifth year; the most brilliant cerise and most productive of all; \$8 per 100; \$50 per 1000. All ready to plant now. LAMPRECHT BROS., ASHLAND, O.

All The Best CARNATIONS

Orders booked now for fall delivery. SEND FOR PRICES. Rotted cuttings and young plants all out.

GEO. HANCOCK & SON, GRAND HAVEN, MICH.

HERRON...

Carnation Grower,

OLEAN, N. Y.

Please mention the American Florist when writing

STRONG 3-in. ROSES.

EXCEPTIONALLY FINE HEALTHY STOCK AT SPECIAL VERY LOW PRICES TO MAKE ROOM.

Brides and Maids, 3-inch.....	\$40.00 per 1000
American Beauties, 2 1/2 and 3-inch.....	50.00 per 1000
Meteors, 3-inch.....	30.00 per 1000
Perles and Kaiserins, 3-inch.....	50.00 per 1000
Brides and Maids, 2x3-inch.....	25.00 per 1000

Special Offer—100 at 1000 Rates.

CARNATIONS. Joost, Jubilee, Armazindy, Triumph, Scott, \$5 per 100; \$45 per 1000.

W. H. GULLETT & SONS,

Lincoln, Ill.

WE STILL HAVE A LOT OF

EXTRA LARGE STRONG BEAUTY PLANTS,

2 1/2 and 3-inch Pots, CHEAP.

JOHN BURTON, Chestnut Hill, Phila.

REVISED LIST OF

ROSES on HAND

Aug. 11, 1902, at GEO. A. KUHL'S, Pekin, Ill. Write him.

METEORS.....	2x2 1/2	2 1/2x3	3x3
BRIDES.....	200		
MAIDS.....	500	1600	
PERLES.....	800		
KAISERINS.....		300	
BELLE SIEBRECHT.....		500	
GOLDEN GATE.....	150	300	
LIBERTY.....	50	200	700

Please mention the American Florist when writing.

ROSE PLANTS.

CLEARANCE SALE—Brides, Bridesmaids and Meteors, \$3.00 per 100; \$29.00 per 1000. Repotted three times. Elegant stock. Never offered better plants. Unknown parties cash with order.

BRANT & NOE, FOREST GLEN, CHICAGO.

ROSES.

Brides and Bridesmaids, 3-inch pots, bushy plants, cut back buds just breaking, \$25.00 per 1,000; 500 at 1000 rates.

Asparagus Plumosus Nanus, 3-inch pots, \$10.00 per 100; 4-inch \$15.00. Fine stock. Slavias, dwarf, 2 1/2-inch pots \$2.50 per 100. Cash with Order.

JOSEPH BRADBURY, South Orange, N. J.

CARNATION PLANTS.

HILL, JOOST, CROCKER, CRANE and NORWAY. Don't leave it too long

ISAAC A. PASSMORE,

Route No. 7, WEST CHES'ER, PA.

Carnations, Violets, Glass.

WRITE FOR PARTICULARS.

KARL GUCKERT, 7631 Ridge Avenue, ROXBOROUGH, Phila., Pa.

Chicago Carnation Co., Joliet, Illinois

Please mention the American Florist when writing

IVORY, or White Golden Gate. TRUE STOCK

Strong 4-inch pot plants, \$6.50 per 100; \$60.00 per 1000.

Strong 2 1/4-inch pot plants, \$3.00 per 100; \$25.00 per 1000.

W.A. Hammond

107 E. Broad St., Richmond, Va.

Garnations

Fine field-grown stock, consisting of the following varieties: White Cloud, Joost, Genevieve Lord, Queen Louise, Flora Hill, Marquis, Crane. No better stock offered. Price, \$7.00 per 100.

S. S. SKIDELSKY,

708 NORTH 16TH ST., PHILADELPHIA.

CARNATIONS

FROM HIGH GROUND.

Morning Glory, Hill, Crane, America, Marquis, fine stock.

W. H. WATSON, Lapeer, Mich.

FIELD-GROWN

Carnation Plants

of the following varieties:

ETHEL CROCKER, G. H. CRANE, FLORA HILL, FRANCES JOOST.

Send for samples and prices; ready for planting.

JOHN WOLF, Savannah, Ga.

CUT FLOWER BOXES



SEE OTHER SIDE OF THIS SHEET FOR SIZES
AND OTHER INFORMATION REGARDING THIS
NEW LINE OF ELEGANT LITHOGRAPHED CUT
FLOWER BOXES.

The National Folding Box & Paper Co.

315 TO 325 CONGRESS AVENUE,

New Haven, Conn.

OUR CUT FLOWER BOXES.

It is only a few years ago that "any old box" was considered quite suitable for use in sending out cut flowers and often a piece of paper was the only protection afforded a handsome and costly bunch of roses or violets; to-day every retail florist recognizes the advantage, if not the necessity, of placing his goods in substantial and attractive boxes that will protect the flowers and please the buyer. It is human nature to be impressed by outward appearances; the well dressed man is received with courtesy and consideration (even if he does turn out to be a book-agent or insurance solicitor) the tramp is escorted from the premises by the bull dog. The discriminating customer will go again to the florist who sends home his purchase in a neat and attractive box rather than to the one who delivers it in an old and soiled box, or hands it to him wrapped in a piece of paper, even if the former charges a little more and his flowers are no better:—they will LOOK better because they are properly packed. This leads us up to the subject we had in mind when we started:—OUR BOXES. We are so well known to the florist trade through our regular line of Cut Flower boxes that we don't propose to say anything about them now, except that they are "all right." What we particularly wish to call attention to is our line of Lithographed Cut Flower boxes, brought out late last year, too late in fact to properly introduce them. The sale, however, was very large in the limited territory covered, and proved that we were not mistaken in believing that the retail florist WANTED a better box for his fine trade; we have it and we want every dealer in cut flowers to see it. The illustration on the preceding page shows the design used on our Rose box; similar in design, but with the appropriate flowers substituted, our Violet, Carnation and Chrysanthemum boxes complete the most elegant line of Cut Flower boxes ever offered to the trade. Reference to the following list will show that they are made in a variety of sizes to meet every requirement. The bodies are made of heavy stock, the same as used in our regular line, the stock being especially prepared to resist dampness; the covers are made of white enameled stock, lithographed in colors from designs by a celebrated painter of floral subjects. In the preliminary work incident to the production of this line we have spared no expense to make it the best that experience, skill and money can produce.

LIST OF SIZES.

<i>CARNATION DESIGN.</i>				<i>ROSE DESIGN.</i>			
<i>No.</i>	<i>Deep</i>	<i>Long</i>	<i>Wide</i>	<i>No.</i>	<i>Deep</i>	<i>Long</i>	<i>Wide</i>
5 A.	3	x 18	x 4	8 A.	3½	x 19	x 5
8 A.	3½	x 19	x 5	9 A.	3½	x 23	x 5
9 A.	3½	x 23	x 5	10	4	x 23	x 7½
10	4	x 23	x 7½	23	5	x 30	x 8
				26	4	x 28	x 6
				27	9	x 16	x 12 (<i>Bouquet Box</i>)
<i>VIOLET DESIGN.</i>				<i>CHRYSANTHEMUM DESIGN.</i>			
<i>Size</i>	<i>Deep</i>	<i>Long</i>	<i>Wide</i>	<i>No.</i>	<i>Deep</i>	<i>Long</i>	<i>Wide</i>
E.	5	x 9	x 7	21	6	x 36	x 8
F.	4½	x 8	x 5	22	6	x 30	x 10
G.	3½	x 7	x 4				
Princess	5	x 12	x 6				

Price List on Application.

We haven't room here to say anything about our line of plain, every-day Cut Flower boxes and Special Waterproof boxes for mailing live plants; write us for samples and price lists.

THE NATIONAL FOLDING BOX & PAPER CO., NEW HAVEN, CONN.

MILLS.
Ballston Spa, N. Y.
FACTORIES.
No. 1, Shelton, Conn.
No. 2 and 3, New Haven, Conn.
No. 4, New York City.

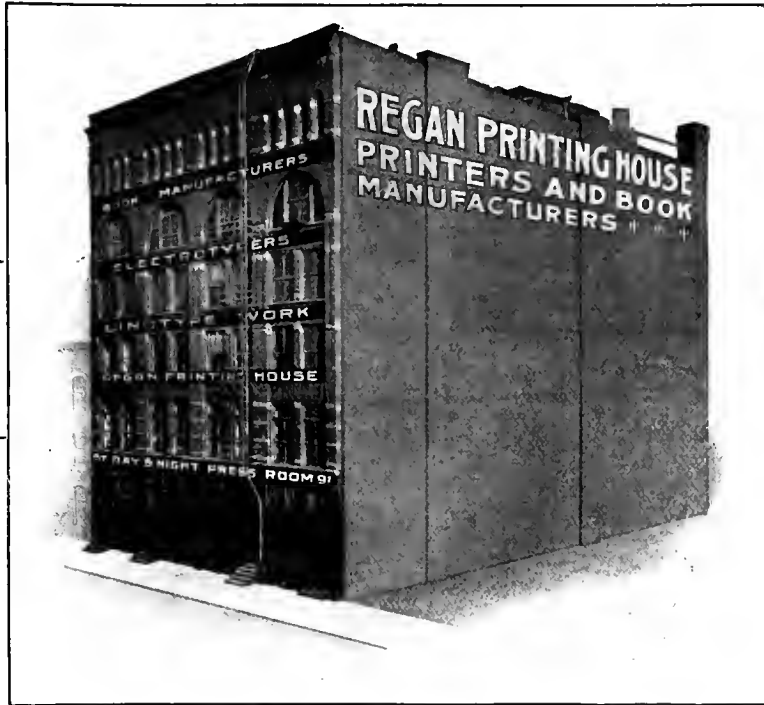
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Philadelphia: 1215 Filbert st.
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Agents Wanted.

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ALL KINDS OF BOOKS. UNDER ONE ROOF
AND ONE MANAGEMENT. ❁ ❁ ❁ ❁ ❁

Give us your copy and we
will turn you out the com-
plete work.....

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HARRISON
SEND FOR ESTIMATES.

Seattle, Wash.

OFFICERS OF THE HORTICULTURAL CLUB.
—AN ACTIVE ORGANIZATION.—VARIOUS
TRADE NOTES.

The Seattle Commercial Horticultural Club is holding regular meetings, on the first Wednesday of each month, at the hall at the corner of First and Cherry streets. The officers are: President C. Malmo; vice-president, G. Gandel; secretary, Wm. Hopkins; treasurer, John Holze. There is much interest in the affairs of the club and it is the agent of much practical good to the trade.

C. Malmo has been laid up for three weeks with rheumatism, but is now able to be out again. Mr. Bathurst, manager of the nursery department of Malmo & Company, has also been ill.

Trade is very dull at present, but little funeral work and practically nothing else. This month the Elks' carnival should make business for six days.

J. C.

Nashville, Tenn.

GROWERS PREPARING FOR INCREASED OUTPUT FOR FALL AND WINTER.—CUT FLOWER TRADE VERY QUIET.

Geny Brothers have put up three houses 25x100 feet, which, added to those they already have, give them an extensive area. They propose raising carnations in all three of the houses. This is one of their specialties and they find a good sale for all they can produce. Their chrysanthemums are coming on in good shape and they propose to have their usual supply of fine violets.

Joy & Son are also increasing their capacity and, to an already extensive area of glass, have erected two rose houses each 400 feet long. They have had a pretty display of gladioli in their show windows, but the demand is not great.

The cut flower business has been on the quiet for the past week or so, but there is great activity at the growing establishments.

M. C. DORRIS.

P. J. Berckmans Co.

KENTIA BELMOREANA Per 100 Per 1000
12-15 in., 4 5 ch. lvs., 4 in. pots, \$20.00 \$180.00
15-18 in., 5-6 ch. lvs., 4-in. pots, 35.00

LATANIA BORBONICA
12-15 in., 2 ch lvs., 4-in. pots, 15 00

PANDANUS UTILIS
12-15 in., stocky, 4-in. pots..... 20.00
18 in., stocky, 5-in. pots..... 25.60

PHOENIX FARINIFERA, RECLINATA and PUMILA
12-15 in., 4-in. pots..... 15.00
15-18 in., several leaves showing character, 5-in. pots..... 25.00

PHOENIX RUPICOLA
18-24 in., several character lvs., 5-in. pots..... 35.00

ARECA LUTESCENS
24-30 in., 5-in. pots..... 30.00

FIGUS ELASTICA
10-12 in., top cuttings..... 20.00

CANNAS, Dry Roots,
Best sorts..... 15.00

CALADIUMS, Dry Bulbs,
Best named sorts, 1 1/4-in..... 6 00 5' 00

ORANGES and KUM KWATS
Grafted, 10-12 in., bushy..... 20.00
(Not less than 50 of a sort at above prices.)

We have a fine line of Hardy Ornamentals, Roses, Shade and Fruit Trees. All first-class and healthy.

It will pay prospective buyers to visit our nursery. L. A. and P. J. A. Berckmans, Jr., will represent us at Asheville Convention.

FRUITLAND NURSERIES,
Established 1856. AUGUSTA, GA.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.

PALMS.

KENTIA BELMOREANA, 2 1/2-inch pots, \$8.00 per 100.
" " 3-inch pots, \$15.00 per 100.
" " 24 to 28 in., fine bushy plants, \$1.25 each; \$15.00 per doz.
" " 30 to 32 in., perfect condition, \$1.75 each; \$20.00 per doz.
ARECA LUTESCENS, 3-inch pots, (3 plants in pot), \$12.00 per 100.
" " 6-inch pots, (3 plants in pot), 24 inches high, \$70.00 per 100.

FERNS from 2 1/4-inch pots.

PTERIS TREMULA, a large stock of this in excellent shape, short stocky plants ready for shift. Always in good demand from any size pots, \$2.50 per 100.
PTERIS Adiantoides, Pteris Crelica Albo-Lineata, Pteris Alexandræ, Pteris Ouvrardi, Pteris Serrulata, each, \$2.50 per 100.
ONYCHIUM JAPONICUM, \$3.00 per 100.
ADIANTUM PUBESCENS, \$3.00 per 100.
Good assortment of **FERNS**, our selection of varieties, \$20.00 per 1000.

ASPARAGUS.

PLUMOSUS, 2 1/2-inch pots, \$4.00 per 100; 3-inch pots, \$6.00 per 100.
SPRENGERI, 2-inch pots, \$2.50 per 100; 2 1/2-inch pots, \$3.00 per 100.
DRACÆNA GODSEFFIANA, 3-inch pots, \$1.50 per dozen.
MARANTA MASSANGIANA, 2 1/2-inch pots, \$3.00 per 100.

—WE ARE HEADQUARTERS FOR—

ORCHIDS

WE collect, import, grow and sell nothing else. We not only pretend, but we have the finest and most perfectly grown plants in the world. We deal with the best people from the Atlantic to the Pacific and our record is not to have lost a customer yet. We can please you. Give us a trial order and be convinced.

For freshly imported Cattloya Trianae see special adv.

LAGER & HURRELL, Summit, N. J.

ORCHID GROWERS AND IMPORTERS.

**The Art
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The only special newspaper in the world for floral arrangement.

200 ILLUSTRATIONS ANNUALLY.

Specimen number free.
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**BINDEKUNST-VERLAG
J. OLBERTZ, ERFURT, GERMANY**
Please mention the American Florist when writing.

Watch This Space

FOR FUTURE BARGAINS.

JOHN BROD,

349 West North Avenue, CHICAGO, ILL.
Greenhouses, Niles Center, Ill.

Please mention the American Florist when writing.

'Mums

We can still furnish the following varieties from 2 1/2-inch pots. Thrifty young plants, well established, ready for immediate shipment. Our selection of standard varieties, early, midseason and late, \$20.00 per 100; \$12.00 per 50. Reduction from list on large orders.

WHITE. Per 100	WHITE. Per 100
T. Eaton.....\$4.00	Geo. S. Kalb..... \$2.50
Ivory..... 3.00	M. Monarch..... 2.50
Willowbrook..... 3.00	Mrs. J. Jones..... 3.00
Nellie Pickett..... 4.00	Queen..... 3.00
Polly Rose..... 3.00	Mrs. H. Weeks..... 3.00
Niveus..... 3.00	Mlle. Lucie Faure 3.00
Mayflower..... 3.00	

YELLOW. Per 100	PINK. Per 100
Col. D. Appleton.....\$4.00	Orizaba..... \$6.00
Philadelphia..... 5.00	Mary Hill..... 4.00
Robt. Halliday..... 3.00	Lady Playfair..... 2.50
Golden Woddyog..... 4.00	Xeno..... 3.00
R. H. Pearson..... 6.00	Maud Dean..... 4.00
Yellow Mayflower 3.00	Yanariva..... 6.00
Mrs. E. D. Smith..... 4.00	V.-Morel..... 4.00
October Sunshine. 3.00	Adels..... 3.00
Mrs. J. Whalidin..... 2.50	Lady Harriett..... 4.00
Liberty..... 4.00	J. K. Staw..... 3.00
Eclipse..... 4.00	Glory of Pacific... 3.00
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H. A. Parr..... 2.50	G. W. Childs..... 4.00
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H. WEBER & SONS, Oakland, Md.

Please mention the American Florist when writing.

Siebrecht & Son

ROSE HILL NURSERIES, NEW ROCHELLE, N. Y.

Largest Stock of Palms

IN THE WORLD. UNSURPASSED IN QUALITY AND PRICE.

All sizes from 1 ft. to 20 ft. Araucarias, Kentias, Boston Ferns, Arcas, Nephrolepis Cordata Compacta, Latanias, Pandanus Utilis, Phœnix, Pandanus Veitchii, Livistonas, Bay Trees, Box Trees, Begonias.

SEE HERE! Don't place your order before you get our prices.
We are hard up for room.

We Will Meet You at Asheville
WITH SAMPLES.

Asparagus P. Nanus

2-inch pots, \$4.00 per 100. 25 at 100 rates.
C.rrriage prepaid. Cash.

Pansy Seed

1902 GIANT OF CALIFORNIA
\$4.00 per ounce, ¼ ounce at same rate.

Loomis Floral Co.
LOOMIS, CAL.

ASPARAGUS PLUMOSUS

Extra fine 2-inch stock at \$3.50 per 100;
\$30.00 per 1000.

Asparagus Tenuissimus

From 3-inch pots, \$5.00 per 100.

BOSTON FERNS,

25 8-inch, to close out at \$1.00 each.
CASH WITH ORDER.

THE LIVINGSTON SEED CO.
Columbus, Ohio.

5,000 SMILAX, extra to close.

500 HIBISCUS, in 2½ to 4-inch.

5,000 SPRENGERI, 2 to 6 inch.

5,000 PLUMOSUS, 2 to 5-inch.

BOSTON FERNS, 4 to 10-inch.

Let us book your order.

GEO. A. KUHL, Pekin, Ill.



FANCY



DAGGER

Hardy Cut Ferns

First Quality, 60c per 1000.

ALSO DEALER IN

CHRISTMAS TREES, Baled Spruce for Cemetery Use,
Bouquet Green, Sphagnum Moss, Etc.

L. B. BRAGUE, Hinsdale, Mass.

Mr. Brague will have an exhibit at Asheville Convention.

B. & A. SPECIALTIES

ENGLISH MANETTI \$12.00 per 1000
FRENCH MANETTI \$10.00 per 1000

ASK FOR FALL CATALOGUE NOW READY.

BOBBINK & ATKINS, Rutherford, N. J.

GERANIUMS

The following strictly high grade varieties, true to name all from 2½-inch pots: JEAN VIAUD, (the pink novelty) \$3.00 per 100; DUTCHESS OF ORLEANS, (the variegated wonder) \$3.00 per 100, S. A. Nutt, Beaute Poitevine, Francis Perkins, E. G. Hill, Mme. Bruant Mme. Jaulin, Athlete, L. P. Morton, Thos. Meehan, Kelway and others, \$2.00 per 100; \$18.00 per 1000.

SMILAX.

We are headquarters for smilax and can supply any quantity. Fine plants from 2½-inch pots, ready for planting \$1.25 per 100; \$10.00 per 1000.

The W. T. Buckley Plant Co., Springfield, Ill.

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Surplus Stock CHEAP.

Per 100
500 Golden Gate Roses, 3-in., strong.....\$5.00
600 Bride Roses, 3-inch, strong. 5.00
700 Bridesmaid Roses, 3-inch, strong..... 5.00
700 Baby Primroses, 2½-inch, strong. . . 2.50
400 Latania Borbonica, 3-inch pots, good
for growing on, will clean them out at 4.00
2,000 Kentias ¼ Belmoreana, 3-in. pots 10.00
Will make a very low price on the entire lot.
Walker & McLean, Youngstown, O.

Syracuse, N. Y.

VISITING GROWER REPORTS CARNATIONS DROWNED IN THE FIELD.—NO SURPLUS OF PLANTS.—BUSINESS FALLING AWAY.—VARIOUS NOTES.

E. D. Wheadon, of Little Falls, N. Y., was in town Monday. He is manager of the Overlook Greenhouses and his specialty is growing carnations for the wholesale trade. He supplies many retailers in his section, including J. O. Graham, the only retailer in Little Falls. Mr. Graham, by the way, is spending a few weeks in Holland. He will be home the latter part of the month. Mr. Wheadon is the father of W. S. Wheadon, manager of the Quinlan stores in this city. He has been in the business over twenty years and has been a subscriber of the AMERICAN FLORIST since its initial number. Mr. Wheadon says that his carnations in the field were "drowned out." He will have only enough for his own use and no surplus. He thinks that carnation growers will all come sooner or later to the potting of carnations through the summer instead of putting them out doors. This will do away with stem rot and other troubles that are due to the fickleness of the weather.

Henry Morris is planting American Beauties and the plants look well. The prospects are favorable to a big chrysanthemum trade and the plants are fine. Mr. Morris' violets are out of doors now, but will be in soon. He has been improving and building new houses this summer.

Business during the month of July was fairly good because the cold weather kept many people from going out of town. August, so far, has been wet and cool, but the exodus has begun, the people realizing that they must go pretty soon if they get any vacation at all.

Syracuse florists do a big business at this season, caring for the plants of people who are away. It is the rule to take charge of plants only at the risk of the customer but the business is always unsatisfactory. The usual charge on "boarders" is 50 cents a month.

P. R. Quinlan & Company report the best July business in years. This company has suffered considerably from the rains, the carnations in the field being injured the most. A. J. B.

BELOIT, WIS.—John Rindfleisch has been in business here sixteen years. The last season was a particularly good one, but he expects next year to beat it.

Primroses

- CHINESE, single mixed, fine..... Per 100 \$2.00
- FORBESI, "Baby"..... 2.00
- OBCONICA Grandiflora, ready Aug. 10 2 00
- Asparagus PLUMOSUS, 2-in. pot.. 3 00
- CARNATIONS, 500 E. Crocker field-grown..... 4 C0
- PANSY SEED, ready in Aug., oz., \$4.00. CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

PRIMROSES.

- Chinese, white.....per 100, \$2.00
- Chinese, red.....per 100, 2.00

Good strong plants 2½-inch pots.

M. A. MILES, Oshkosh, Wis.

MY PALMS and Decorative Plants.

Never were finer than they are at the present time and are sure to give Satisfaction.

LOOK FOR MY EXHIBIT AT THE ASHEVILLE CONVENTION.

For Full Description Send for Price List.

LEMUEL BALL, Wissinoming, Philadelphia, Pa.

BOUVARDIAS Perennial PHLOXES.

- 500 Rosea Multiflora,
- 500 President Garfield,
- 300 Humboldtii,
- 200 The Bride,
- 500 Hogarthii,
- 500 President Cleveland,
- 200 Alfred A. Neuner,
- 200 Double Flavescens.

2-inch Pot Plants \$3.00 per 100.

Field-Grown Bouvardias.

- 400 Humboldtii,
- 300 President Cleveland,
- 200 President Garfield,
- 300 Rosea Multiflora,
- 200 Double Flavescens,
- 200 Hogarthii,
- 125 Lanantha.

SEND PRICES FOR FIELD GROWN ROSES.

NANZ & NEUNER, Louisville, Ky.

'Dryden'

Geranium, the finest of all hedders, 3½-in. pots, \$4.00 per 100; 2½-in., \$4.00 per 100. Cash please.

HENRY EICHHOLZ, Waynesboro, Pa.

ROBT. CRAIG & SON, Roses, Palms

and Novellies in Decorative Plants, Market and 49th Sts., Philadelphia, Pa.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

From the many inquiries about our New Perennial Phloxes, we wish to announce to the trade and the plant loving public in general that they will be disseminated in the spring of 1903, and a price list will be sent on application.

A full line of this Popular Perennial of Standard varieties always on hand.

JOHN G. GARDNER,

Montgomery Nurseries, VILLA NOVA, PA. Please mention the American Florist when writing.

A FEW GOOD THINGS YOU WANT.

- KENTIA Belmoreana and Forsteriana, also Arca Lutescens, 3 plants in a pot, extra clean and well grown plants, 2½, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
- REX BEGONIA, 2 and 3-inch, \$4 and \$6 per 100.
- BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.
- FERN, Cordata Compacta, 2 and 3-inch, \$4 and \$10 per 100.
- ASPARAGUS Plumosus, 2-inch, \$5; 3-inch, \$8. Sprengeri, 2 inch \$3; 3 inch, \$5, per 100.
- DRACAENA INDIVISA, 3, 4 and 5-inch, \$6, \$10, \$25 per 100.
- ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100.
- SMILAX, Vicca Var., Campbell Violets, 2-inch, \$2.00 per 100.
- FIELD-GROWN CARNATIONS. Scott, McGowan, Portia, Peachblow, Ethel Crocker, Genevieve Lord, \$4.00 per 100; Prosperity, \$5.00 per 100. CASH OR C. O. D.

GEO. M. EMMANS, NEWTON, N. J. Please mention the American Florist when writing.

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ARAUCARIA EXCELSA GLAUCA.

- 5-inch pots, 8 to 10 inches high, 2 tiers.....\$.75 each
- 6-inch pots, 12 inches high, 2 to 3 tiers..... 1.00 each
- 6-inch pots, 15 inches high, 3 tiers..... 1.25 each
- 7-inch pots, 18 inches high, 4 tiers..... 1.50 each

If you have never tried this beautiful Fern in fine decorations or as a house plant, you should become acquainted with it at once. Its points of merit are so many that you cannot afford to be without it. It possesses a graceful, delicate habit unlike any other plant and while its appearance is that of being very soft, it is really as hardy as any of the commercial Palms. We have a fine stock of it this season and offer heavy plants as follows:

- 5-inch pots, \$1.00 each; \$10.00 per dozen.
- 7-inch pots, 1.50 each; 18.00 per dozen.
- 9-inch pots, 3.00 each; 36.00 per dozen.

The 7 and 9-inch pots are beautifully finished plants, suitable for decorative work.

Special Offer of Araucarias.

We have in stock about twelve thousand Araucarias, on which we are in a position to offer special values. It will pay you to procure your next winter's supply now and not only gain the benefit of the summer's growth, but also cheap transportation rates, as these plants can be safely shipped by feet freight during the summer months.

ARAUCARIA EXCELSA.

- 5-inch pots, 8 to 10 inches high, 3 tiers.....\$.50 each
- 6-inch pots, 10 to 15 inches high, 3 to 4 tiers..... .75 each
- 6-inch pots, 16 inches high, 4 tiers..... 1.00 each
- 6-inch pots, 20 inches high, 4 to 5 tiers..... 1.25 each
- 7-inch pots, 21 inches high, 4 to 5 tiers..... 1.50 each

ARAUCARIA ROBUSTA COMPACTA.

- 6-inch pots, 10 inches high, 2 to 3 tiers.....\$1.25 each
- 6-inch pots, 12 inches high, 3 tiers..... 1.50 each

HENRY A. DREER, 714 CHESTNUT STREET, PHILADELPHIA, PA.

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Five Thousand Strong, Vigorous, Healthy.

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|--------------------------|--------|---------|
| BRIDESMAID, 3-inch..... | 100 | 1000 |
| " " 2 1/2-inch..... | \$4.00 | \$35.00 |
| GOLDEN GATE, 3-inch..... | 3.00 | 25.00 |
| " " 2 1/2-inch..... | 4.00 | 35.00 |
| BRIDES, 3-inch..... | 3.00 | 25.00 |
| " " 2 1/2-inch..... | 5.00 | 45.00 |
- A few PERLES and BEAUTIES, 3-in. 5.00

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Successor to Brown & Canfield,
SPRINGFIELD, - ILL.

15,000 Field-Grown 15,000

CARNATIONS

Extra fine plants of Lawson, Roosevelt, Marquis, Crane, White Cloud, Cervera, Joost, and Maceo. Write for price list.

GEO. E. BUXTON, Nashua, N. H.

VIOLETS

from both 2 1/4 and 3-inch pots, in splendid condition to plant now: Imperial M. Louise and Swanley White, 2-inch, \$2.75 per 100; \$25.00 per 1000. Campbell, \$2.50 per 100; \$25.00 per 1000. 3-inch, \$4.00 per 100; \$35.00 per 1000.

CARNATIONS from the field, write for prices.
SMILAX, 2-inch, \$1.50 per 100. 3-inch, \$3.00 per 100; \$25.00 per 1000.
CRABB & HUNTER, GRAND RAPIDS, MICH.

FOR SALE.

5,000 FIELD-GROWN VIOLETS

LADY CAMPBELL, very fine clumps.
MANN & BROWN, Richmond, Va.

VIOLET PLANTS.

Strong field-grown clumps from sand struck Cuttings. Ready September 1, \$5.00 per 100; \$49.00 per 1000; Samples 10 cents.

The Albert H. Brown Co., Westboro, Mass.

GERANIUMS 20,000 Ready Now.

A special drive on 2-inch pot plants, all correctly labeled at \$1.50 per 100. Less than 25 of a variety will be \$2.50 per 100. Sample mailed for 10c in stamps.

SMILAX. 2-inch pot plants at \$1.50 per hundred.

BONE MEAL. FLORISTS BRAND at \$3.50 per bag of 200 pounds. A trial order solicited.

ALBERT M. HERR, Lancaster, Pa.

Orders booked now—delivery in September—for my Nephrolepis Fern

"ANNA FOSTER"

Small plants, \$25.00 per 100; larger plants prices on application.

L. H. FOSTER, 45 King St., Dorchester, Mass.

Latania Borbonica

For growing on, fine plants, 3-inch pots, \$6.00 a hundred.

J. B. HEISS, The Exotic Nurseries, DAYTON, OHIO.

Violets

MARIE LOUISE specially grown for forcing. These are from cold frame, free from disease and insects, and are in first-class condition for planting during August. Per 100, \$3.50; per 1000, \$30.00.

W. H. THOMAS, Convent Station, Morris Co., N. J.

Imperial Violet Plants

2 1/4-inch pots, grown for our own use.

Good plants. \$2.50 per 100.

WISE BROS., East Aurora, N. Y.

Studer Offers

The Largest Assortment of well grown Decorative and other Plants South of New York. ❀ ❀ ❀

Palms, Ferns, Dracænas, Marantas, Dieffenbachias, Ficus, Aspidistras, Variegated Leaved Pineapples, Anthuriums, Asparagus, Anthericums, Fittonias, Peperomias, Sansevieras, Pandanus, Sago Palms, Selaginellas, etc., mostly florists' medium size and for fern dishes, jardinières, etc. Large specimens of Boston and Washingtoniensis Ferns. A full line of best Bedding and Hardy Plants, Hybrid, Tea, Moss and Climbing Roses. Aucuba and other Evergreens for window boxes. Shrubs and Vines. Cut flowers in season.

N. STUDER, Florist, Washington, D. C.

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FOR INSURANCE AGAINST DAMAGE BY HAIL, Address **John G. Esler, Sec'y F.H.A. SADDLE RIVER, N. J.**

Newark, O.

NOTES OF A VISIT TO TWO PROGRESSIVE GROWERS.—CARNATIONS TO BE PRODUCED IN INCREASED QUANTITIES.—STOCK OUTDOORS LOOKING WELL.

Geo. L. Miller is modernizing his place in a truly up-to-date manner. Aside from giving his entire range a thorough overhauling, he has in course of construction an additional carnation house 30x120, a conservatory and a new office. The latter will be equipped with all the comforts and modern conveniences. Mr. Miller reports a good trade all along the line, both wholesale and retail. His catalogue trade proved far ahead of that of the previous season. It is Mr. Miller's intention to go in heavier on carnations than heretofore, although roses will by no means be relegated to a back seat. His carnation plants in the field look well.

A call on A. J. Baldwin, as usual, proved interesting. Busy or not busy, Mr. Baldwin's place invariably presents an attractive appearance and is a model of neatness. Business has been fine with him throughout the season and, encouraged by the results, Mr. Baldwin is adding a good-sized carnation house to his place. While growing a general stock for his retail trade, Mr. Baldwin will grow more carnations during the coming season. Boston ferns have been much in demand and at this writing he is practically sold out of small plants. He likewise found a brisk demand for the Wittboldii fern, of which he grows a large quantity. Carnation plants look well. Noms.

MARSEILLES, ILL.—F. P. Tisler has a new greenhouse fifty feet long and is erecting two more houses 16x32.

NORTHAMPTON, MASS.—The liabilities of Alex. Parks, who went into bankruptcy last week, are given as \$9,522.38 and available assets \$9,100.00. Among the largest unsecured creditors are A. N. Pierson, \$479.65; First National Bank of Northampton, \$440, and the F. R. Pierson Company, \$322.97.

CYCLAMENS.

Extra fine stock 4-inch. \$12.00 per 100. 5-inch. \$25.00 per 100.

ASPARAGUS PLUMOSUS, extra good. 3 inch. \$7.00 per 100.

ASPARAGUS SPRENGERI, field-grown plants, fine heads \$5.00 per 100.

C. WINTERICH, Defiance, O.

Celery Plants.

TRANSPLANTED, WELL-HARDENED PLANTS, \$1.50 per 1000. Will close out cheap in larger lots.

If you have spare room to fill, write us.

White Plums, Golden Heart and Golden Self-Blanching
R. KILBOURN, Clinton, N. Y.

BEGONIA GLOIRE DE LORRAINE,

2 1/2-inch pots, \$15.00 per 100.

Write for prices on large lots. Stock guaranteed absolutely free from disease.

THOMAS ROLAND, Nahant, Mass.

BEGONIA GLOIRE DE LORRAINE,
Begonia Light Pink Lorraine,

For July and Later Delivery,
\$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near
Chastnut Hill, Pa.

CALIFORNIA

SEEDS and PLANTS

Burbank's Shasta Daisy Seed, 25c per 100; \$2 per 1000; \$18 per oz.
Asparagus Sprengeri Seed, \$1.60 per 1000; 5,000 for \$6; 10,000 for \$11.
Pansy Giant Mixed, \$1 per ounce; \$10.00 per lb.

PLANTS.

Burbank's Shasta Daisy, 2-in., \$1.0 per 100; 3 1/2-inch, \$15 per 100.
Calla Bulbs, 1st size, \$5.00 per 100.
Asparagus Plumosus Nanus, fine 3-inch, \$5.00 per 100. 25 plants at 100 rate. Express prepaid.

CALIFORNIA CARNATION CO.
LOOMIS, CAL.

Plant Labels

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Floral Catalogues

OUR SPECIALTY.

Moore & Langen Printing Co.,
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Chrysanthemum...

TIMOTHY EATON, well-rooted cuttings, \$2.25 per 100. Sample 2; for 50 cts., express prepaid: Plants, \$3.00 per 100, express not prepaid. All healthy and strong.

Geraniums...

1,500 S. A. Nutt, 500 La Favorite, from 2 1/2 and 2-inch pots, mostly 2 1/2-inch, large per cent in bloom or bud, ready shift, \$1.50 per 100; \$14.00 per 1000.

Unerooted cuttings of S. A. Nutt, 70 cents per 100; \$5.00 per 1000. Cash with order.

DES MOINES PLANT CO.,

38th St., Des Moines, Iowa.

'MUMS! ROSES! SPECIAL!
Col. Appleton, 2 1/2-inch, \$20.00 per 1000; rooted cutting, \$15.00 per 100. Maj. Bonaffon, 2 1/2-in., \$18.00 per 1000; rooted cuttings, \$11.00 per 100. Our selection in proper proportion of color, 2 1/2-inch, \$20 per 1000; rooted cuttings, \$12.00 per 1000. 100,000 2 1/2 and 3-inch Maids, Brides, Gates and Meteors. 25,000 2 1/2-inch Stevia and rooted cuttings, \$20 and \$12 per 1000.
Printed price list furnished on application.
Poehlmann Bros. Co., Morton Grove and Chicago, Ill.

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500 Smilax Plants, 3 inch pots, \$3.00 per 100
1200 feet 1-inch new steam pipe, \$100.00
10 Boxes Double Strength A 18x20 Glass, \$4.65 per box
25 Boxes Single Strength A Glass 3.00 per box.

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ARAUCARIA EXCELSA

in the country. May importation, raised from top cuttings only.

5 inch pots, 3 tiers, 10 inches and above..... \$.50
5 1/2-inch pots, 12 to 14 inches..... .60 to .75
6-inch pots, 15 to 18 inches..... .75 to 1.00
Specimen..... 1.25

KENTIA FORSTERIANA and BELMOREANA, 5 1/2 to 6-in. pots, 25 to 30 inches high. .75

FICUS ELASTICA, 5 1/2 to 6-in., 18 to 24 inches high, from \$4.00 to \$5.00 per doz.

BOSTON FERNS, 6-inch pots..... .40
Cash with order please. To save express mention if pots to be taken off.

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ROSES, from 3-inch pots. In Best
CARNATIONS, for all delivery, Varieties
CHRYSANTHEMUMS,
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Prices Low. Send for List.

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Special Announcement

Our facilities for handling the cut flower trade are unsurpassed by any other house in the United States. A trial order will convince you of
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BEAUTIES and VALLEY OUR LEADING SPECIALTIES.

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We have completed our arrangements with the leading ribbon manufacturers for new stocks of all the staple requirements, including many new and exclusive designs in various shades and materials. All our ribbons are

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for the florists' trade. We have the largest and most complete stock of these goods in America. Our representatives will be

At the Convention

with an exhibit of our principal designs in this line and all will have an opportunity of selecting those best suited to their needs.

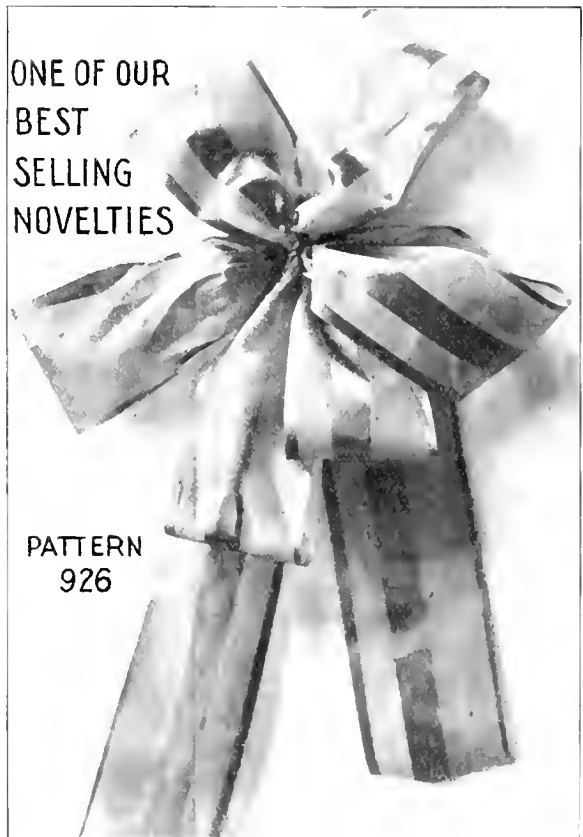
*Waterproof Crepe Paper,
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and many other florists' requisites in novel designs.

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USE
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Clean and harmless
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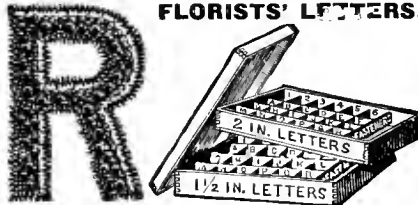
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This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.
Script Letters, \$4. Fastener with each letter or word.

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84 Hawley St., BOSTON, MASS.

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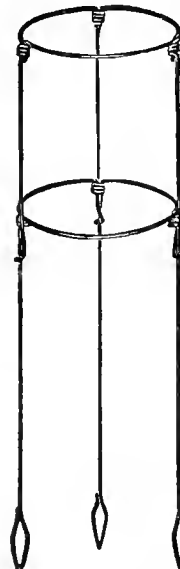
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THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn, N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

The Model Extension Carnation Support.



Flushing, Long Island,
Dec. 11th, 1901.

MR. THERON N. PARKER,
Brooklyn, N. Y.

Dear Sir— I have used your Wire Carnation Support the last two years in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.

Very truly,
A. L. THORNE,
La Fayette, Ind.,
July 8th, 1902.

MR. THERON N. PARKER,
Harrison, N. J.

Dear Sir:— After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season.

We were much pleased with the simplicity, strength and neat appearance of the support.

Yours truly,
F. DORNER & SONS CO.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.

The Parker-Bruen Mfg. Co.
208 Jersey St., Harrison, N. J.

Directory for 1902.

*Price \$2.00
Postpaid.*

THE AMERICAN FLORIST COMPANY'S Trade Directory for 1902, fully revised to date, with thousands of new names and changes of address, is now ready for distribution. It contains 418 pages, including complete lists of the Florists, Seedsmen and Nurserymen of the United States and Canada, arranged both by states and towns and all names alphabetically. Also lists of Private Gardeners, Firms which issue catalogues, Horticultural Supply Concerns, Parks, Cemeteries, Landscape Architects, Experiment Station Horticulturists, Botanical Gardens, and much other conveniently indexed and invaluable trade information. Published by the

American Florist Co.

324 Dearborn St., Chicago, Ill., U. S. A.

*Contains
418 Pages.*

Directory for 1902.

Sing a song of summer,
 A pocket full of kicks;
 Four and twenty florists
 In an awful fix.
 Fill their store each season
 With goods they cannot sell;
 Indignant and disgusted--
 Customers rebell.

Sing a song of profit,
 A pocket full of cash;
 Four thousand happy florists--
 Not a bit of trash.
 The stock they show each season
 Is the newest and the best;
 'Tis Harry's own selection
 And Paul--he does the rest.

Harry is over in Europe now. He knows the kind of stock the American trade requires and will take nothing else. Paul will be at Asheville and will show there what a first-class florist's supplies should consist of. It will comprise the usual comprehensive display for which this house has become noted at the annual S. A. F. Conventions and is in itself well worth a journey of inspection. A rare opportunity for progressive florists. If you are unable to come to Asheville, send us your address for an Illustrated Catalogue.

H. Bayersdorfer & Co.

LARGEST FLORISTS' SUPPLY HOUSE IN AMERICA.

50-56 North Fourth St., Philadelphia, Pa.

Please mention the American Florist when writing.

FUMIGATION METHODS

By PROF. W. G. JOHNSON

Formerly State Entomologist of Maryland

A Practical Treatise and timely work on cheap and effective means of destroying insect pests and other vermin in various places. This work is the outcome of practical tests made by the author, together with the experiences of others, and is one of the most important books published this season and is much needed at this time. It will be of particular interest to

FRUIT GROWERS AND NURSERYMEN owing to the widespread prevalence of the notorious San Jose scale. Hydrocyanic acid gas is the only practical remedy for the destruction of this pest and is being used more extensively than ever before by nurserymen and fruit growers. The perfection of the apparatus for fumigating young orchard trees is outlined in this work. The methods can be easily applied in orchards and nurseries for many dangerous pests at very small cost. The writer is considered the best authority on this subject in this country and has left nothing undone to make this the most complete work of the kind ever published.

GARDENERS AND FLORISTS have found that vegetables and flowers cannot be grown under glass without frequent fumigation for the destruction of insect pests. Hydrocyanic acid gas has solved this problem. The methods of procedure are fully described and every detail is given for generating and applying the gas.

MILLERS AND GRAIN DEALERS have been looking forward to the publication of this work, as hydrocyanic acid gas has been found one of the most important materials for clearing mills and warehouses of insects. The subject of carbon bisulphide for fumigating mills and elevators containing grain in storage is also thoroughly considered. To this trade the work is indispensable and transportation companies have found it of great value for the fumigation of cars, ships and other inclosures infested with vermin.

FARMERS OF THE COUNTRY have here fully described a simple, easy remedy for gophers, prairie dogs, squirrels and other animals in the ground, and rats and mice in any inclosure.

COLLEGE AND STATION WORKERS will find it an up-to-date reference work on this subject. It is complete in every respect and is the only work of the kind ever published. It is written in a popular non-technical style, profusely illustrated, handsomely bound, covering 250 pages, price, post-paid, \$1.00.

AMERICAN FLORIST CO.

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CHICAGO, ILL.



"THE BEST" Adjustable Plant Stands.

This is one of the most useful contrivances a Florist can have, not only for decorating but for permanent conservatory and greenhouse use.

The special merits of this stand may be briefly enumerated as follows: The three feet cause it to stand firmly on a carpet or uneven floor. The upright is of three parts telescoped, being easily adjusted to various heights, fastened by means of thumb screws which are well made. The top flange will hold any ordinary pot upright, or by using the four-pronged crotch attachment, a pot can be placed on its side at two different angles, a very useful contrivance for temporary decoration.

Where large plants weighing two or three hundred pounds are to be elevated, three stands placed close together carry them safely, although the floor itself may be uneven. While possessing a number of advantages over any other stand in the market the price is lower.

1 Stand, \$1.50; 3 Stands, \$4.00; 6 Stands, \$7.50; 12 Stands, \$14.00.

If your dealer does not keep them in stock order of

C. B. Whitnall, Milwaukee, Wis.

Use our Patent
 IRON BENCH
 FITTINGS and
 Roof Supports.



IMPROVED VAPORIZING PANS VENTILATING
 For Tobacco Extracts, Etc. Send for Circulars.
 SUCCESSORS TO
DILLER, CASKEY & CO., JENNINGS BROS., APPARATUS.
 S. W. Cor. Sixth and Bark Sts., PHILADELPHIA.

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Wholesale Florists

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FLORISTS' SUPPLIES

JAPANESE VASES.

Of these we are the only large importers for florists' use. They are attractive, very strong and low priced. We have a great variety of sizes and styles. Especially adapted for store use and for cut flower displays in exhibitions.



HANGING VASES FROM JAPAN.

Metal Designs from France. Novel in make-up and comparing favorably in price with any ever offered in the American market. A full line of Wheat Sheaves, Cycas Leaves and general standard goods and novelties in florists' supplies.

Specialties in combination Jardiniere and Flower Pots for **Fall Trade.**

We know we can interest you and we know we can save you money on your supplies.

84 HAWLEY STREET, BOSTON, MASS.

M. RICE

B. ESCHNER

A. B. C. CODE USED _____

CABLE ADDRESS
"VANOAL"
PHILADELPHIA**M. RICE & CO.**IMPORTERS AND
MANUFACTURERS**LEADING FLORISTS' SUPPLY HOUSE**
918 FILBERT STREET.

Philadelphia, August 16th, 1902.

To the Delegates of the S. A. F.:

Ladies and Gentlemen: Going or coming to or from the Convention we especially invite you to stop off and visit our establishment. Our Mr. M. Rice has just returned from Europe where he has secured some decided novelties. Prominent among these is a new departure in crepe paper. It has the appearance of fine corduroy, having a velvety sheen and lustre entirely different from anything in its line. It is not waxed. It is four ply and two colored, a fine holly red on one side, being green on the other. It comes in all the popular shades and its many combinations of colors will enable the decorator to match both flowers and foliage with one piece of paper. We alone handle this great novelty. A special line of baskets will be found very attractive. There are many other specialties from these importations, things which we will be pleased to show you.

We feel sure to astonish you with the extent of our new stock of ribbons. We have invested thousands of dollars in this line, which contains all the best and most popular shades for florists' work. Every quality and width to suit the demand. An expert is at the head of this department, which is to be one of the features of our business. You will see that our line of staple goods was never in better condition. Our trade in Wheat Sheaves, Cycas Leaves, and Immortelles is second to none in this county, as the prices always favor the buyer on these standard supplies.

We will have a large display at Asheville where we hope to see those who will not find it convenient to visit our show rooms.

Yours Very Truly,

M. RICE & CO.,

Leading Florists' Supply House,
918 Filbert St., Philadelphia, Pa.**\$2.00****POSTPAID TO**
Any ADDRESS

SAVES MANY TIMES ITS PRICE



THE AMERICAN FLORIST COMPANY'S DIRECTORY saves many times its price to every one who catalogues or circularizes the trade. Fully revised to date of publication, it puts the mail only to live names, avoiding waste of postage and printed matter, time and labor.

Contains 418 pages, lists of Florists, Seedsmen and Nurserymen of the United States and Canada by states and towns, also alphabetically; firms that issue catalogues, private gardeners, horticultural societies and much other up-to-date information which makes it a reference book of daily utility wherever a wholesale trade is done.

Published annually by the

American Florist Co.

324 Dearborn St. CHICAGO.

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All Heart Cypress Lumber

FOR GREENHOUSES. We have a larger stock than ever of open-air dried lumber. Any stock bought of us we guarantee to be not only free of sap, but knots and other serious imperfections as well. Our guarantee is good.

HOT-BED SASH. These are spot clear, strong and well made. Nothing as good made anywhere. We make a delivered price.

POSTS. These are **Tennessee Red Cedar** and not the white or Michigan cedar. Red Cedar is a hard wood. They are the most durable. Cost a little more, but are worth more.

We have had twenty years' experience in the Greenhouse business and our plans and estimates are worth writing for.

Office and Factory, **LOCKLAND, O.**

No Matter What Kind of Stock You May Grow, Roses, Carnations, Lilies, 'Mums, Ferns, Palms, or what not

"ROSE LEAF"

EXTRACT OF TOBACCO INSECTICIDE

WILL SAVE YOU MONEY

As compared with other remedies, a practical test will certainly convince you that "Rose Leaf" is the **Best** and **By Far the Cheapest** General Insecticide on the market. For sale by all seedsmen. For free booklet write to

THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

**Nikoteen
Aphis Pink
It Burns**

The most convenient way of applying an insecticide ever yet devised. No pans required - No heating of irons - No trouble - Cannot injure the most sensitive blooms - Very effective. Price 60¢ per box of 12 rolls. All dealers sell it!

Skabcura Dip Co.
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DILLON'S GREENHOUSE MFG. CO. Bloomsburg Pa.

MANUFACTURERS OF HOT BED SASH, AIR DRIED GULF CYPRESS SASH BARS AND OTHER GREENHOUSE MATERIAL.

BUILDERS of DURABLE and PRACTICAL Greenhouses at a LOW COST.

Our descriptive circular contains valuable information for every florist. Send for it.

SUB-WATERING BEDS For Carnations, Roses, Violets and Lettuce. Give them a trial this year and increase quantity, improve quality and save labor. Next year you will want all your beds made our way. The cost is reasonable.

(Patent applied for)

Please mention the American Florist when writing.

THE AMERICAN FLORIST...

Of August 23 will contain a complete report of the

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It will be a particularly attractive issue for advertisers.

SEND COPY EARLY.

SPECIAL OFFER.

Owing to our Fall Supplies arriving within next two months, we are offering **Special Low Prices** on all **Florists' Supplies, Etc.**, to clear up stock to make room for new goods. Write for Special List now ready.

MCKELLAR & WINTERSON CO.

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The Peerless Powder Blower

Every Grower Should Have One.



Lightens your Toil,
Saves Time and Money.

PATENTED.

Distributes equally well Sulphur, Lime, Slug Shot, Tobacco Dust, Paris Green, Etc.

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"Can sulphur a house 20x100 feet in less than three minutes."—Chas. Schweigert, Niles Center, Ill.

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If your seedsman does not handle it, order direct.

Price, \$4.00 F. O. B. Chicago.

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Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25. Manufactured by **W. J. COWEE, BERLIN, N. Y.** Sample Free. For sale by dealers.

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Of Every Description.

When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

DUNNE & CO., 54 W. 30th St., New York.
Telephone Call, 1700 Madison Square.

A. HERRMANN,

- * Cape Flowers, all colors,
- * Cycas Leaves, Metal Designs,
- * and All Florists' Supplies.

Send for Prices.

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FLORISTS'
Immortelle Letters, Etc.

Krick's Letters.

THE BEST.

These Letters and Designs are made of the best Immortelles, wired on wood or metal frames, having holes drilled in them to insert tooth picks, by which they are fastened in the design. Give them a trial. You will find these goods to be superior to any in the market.

2-inch Letters, \$2.50 per 100.
Postage, 15 cts. per 100.

For other styles of Letters, Emblems and Designs send for catalogue. Before purchasing send for free sample and catalogue, and compare with any other letter on the market.

THE Perfect Flower Pot Handle and Hanger

is used for lifting plants out of jardinières, also for hanging up plants for decorations on walls, etc. Will sustain a weight of 100 lbs.

No. 1 will fit from 2 to 5-inch pots, per doz. 30c; No. 2 will fit from 5 to 8-in. pots, per doz. 40c; No. 3 will fit from 8 to 12-in. pots, per doz. 50c. Postage 10 cents extra per dozen; sample pair 10c. postpaid.

For sale by all Florists' Supply Dealers.

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Please mention the American Florist when writing.

KIFT'S PATENT ADJUSTABLE VASE HOLDER

No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$2.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nicked, with three clasps for 5 to 6-inch pots, each \$1.75.

KIFT'S PATENT Rubber Capped FLOWER TUBES, 1 1/2-inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.
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THE LARGEST, BRIGHTEST AND BEST
Horticultural Trade paper in the British Isles. It contains MORE ADVERTISEMENTS, MORE ILLUSTRATIONS and MORE NEWS than any of its contemporaries. Read by the whole of the British trade and all the best European houses every week. Annual subscription, 75 cents. Specimen copy post free. Published weekly.
Horticultural Trade Journal Co., Padiham, Lancs., Eng.

Don't You Forget SIEBERT'S ZINC NEVER RUST GLAZING POINTS

ARE POSITIVELY THE BEST. LAST FOREVER.

Over 6,000 pounds now in use. A sure preventative of glass slipping. Effective on large or small glass. Easy to drive, easy to extract. Two sizes, 3/4 and 1/2, 40c. a lb.; by mail, 16c extra. 7 lbs. for \$2.50; 15 lbs. for \$5.00, by express.

For Sale by
Vaughan's Seed Store, Chicago & New York
Henry F. Michelt.....Philadelphia
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Livingston Seed Co.....Columbus, Ohio
Schtegel & Fottler Co.....Boston, Mass.
Chas. T. Siebert, Station B, Pittsburg, Pa.
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KIND WORDS NEVER DIE.

GLENFIELD, PA.
CHAS. T. SIEBERT:—I take pleasure in expressing satisfaction in using your Zinc Glazing Points. They have outlasted all others used, therefore are better and cheaper. Their merit should result in extended sales.
Sincerely yours, THEO. F. BECKERT, Florist.

BELLEVUE, PA.
CHAS. T. SIEBERT:—Please book my order for 100 lbs. of Zinc Never Rust Glazing Points. I have used five different kinds of points in the last twelve years, and none of them gave me satisfaction like yours. They will stay in, are easy to drive, no rights or lefts, will hold the glass in place, and do not rust away like all others I have used. Your Zinc Points are easy to take out when making repairs. I have used about 100 lbs. of your Zinc Points in the last two years, and I am perfectly satisfied with them.
Yours truly, F. BURKI.

CLEVELAND, OHIO.
CHAS. T. SIEBERT:—In our 25 years' experience in glazing points of all kinds, I can say your Zinc Points are the best to date. CHAS. H. WILSON, Mgr. for Grant-Wilson Floral Co.

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CHAS. T. SIEBERT:—We have used the 20 lbs. of Zinc Glazing Points, and think they are the best things we have ever used for glass. If we need any more we will order from you.
Yours very truly, W. A. HAMMOND, Florist.

LOCKLAND, OHIO.
CHAS. T. SIEBERT:—I must say the Zinc Points have given great satisfaction. I have used over 100 lbs. on my houses, and feel justified in stating that they are the best point on the market.
Yours respectfully, W. K. PABTRIDGE, Florist.

CHAS. T. SIEBERT, Station B, PITTSBURG, PA.
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THE KINNEY PUMP.

For applying liquid manure it has no equal. Sent prepaid for \$2.00.

THE HOSE CONNECTION CO., Kingston, R. I.
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WHILLDIN POTTERY CO.

JERSEY CITY

LONG ISLAND CITY

PHILADELPHIA

Traveling Representative,
U. CUTLER RYERSON,
108 Third Ave., NEWARK, N. J.

Bargains FOR Florists.

We are headquarters for a general assortment of the necessary material and supplies that you are looking for. If you are about to improve or construct, consult us.

In connection with the dismantling of the Pan-American Exposition, we have for sale:

- 20,000,000 FEET of fine seasoned lumber, practically new, consisting of all sizes of joists, timbers, dressed and matched boards and flooring; also sash and doors.
- 50,000 FEET of roofing glass.

PIPE.

We are headquarters for pipe. We offer you: 100,000 FEET of 2 to 4-inch wrought iron, lap welded casing. We can furnish this material in three ways: Either with sleeve or jacket couplings, screwed ends and threaded couplings or with expanded cast iron flanges with bolts and nuts.

1,000,000 FEET of standard black wrought iron pipe, size 3/8 to 12-inch. It is second-hand but has new threads and couplings and is in first-class condition.

1,000 TONS of galvanized wire 9, 10, 11, 12, 13, 14 and 15 guage.

50,000 FEET of 2, 3 and 4-inch cast-iron soiled pipe and fittings.

100,000 FEET of garden hose, 3/4 and 1-in. 75,000 FEET of cotton rubber-lined fire-hose, (rubber-lined in and outside), ranging in sizes 1 to 2 1/2-inch.

- VALVES and fittings of every kind.
- BOX COILS for heating purposes.
- RADIATORS, new and second-hand.

We also offer the following bargains in

Heating Boilers

50 CAST-IRON sectional heaters, capacity from 450 to 5,000 feet.

1 NO. 2 Standard Kroeschell hot water heating boiler.

- FOUR 36x10 Horizontal Tubular.
- FOUR 36x12 Horizontal Tubular.
- FIVE 42x10 Horizontal Tubular.
- FIVE 42x12 Horizontal Tubular.
- SIX 48x14 Horizontal Tubular.
- TWO 54x16 Horizontal Tubular.
- FOUR 60x16 Horizontal Tubular complete with all fittings.

PUMPS of all Descriptions.

A carload of shovels and spades that we are selling at \$5.00 per dozen.

We carry a complete stock of hardware and farm implements, besides plumbing material of every kind.

Write for Catalogue No. 47.
Chicago House Wrecking Co.,
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"BLACK DEATH" (POWDER) TO EAT THEREOF IS TO DIE.



BUG KILLER and FERTILIZER. Three years of unprecedented success wherever introduced all over the United States has proved "BLACK DEATH" to be a cheap and absolute annihilator of all insects, bugs or beetles that prey on vegetation, foliage and flowers. See what Peter Reinberg said in this paper, Feb. 8. Other strong indorsements sent on receipt of postal card.

Western Sales Agency, 235 Franklin St., Chicago.
S. D. STRYKER, Agent.
HANDLED BY SEEDSMEN.

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST.

28th and M Streets, WASHINGTON, D. C.



GEO. KELLER & SON,
MANUFACTURERS OF

FLOWER POTS.

Before buying write for prices.
361-363 Herndon Street,
near Wrightwood Ave.,
CHICAGO, ILL.



STANDARD FLOWER POTS!

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in., in crate, \$4.88		120 7-in., in crate, \$4.20	
1500 2 1/4 " " 5.25		60 8 " " 3.00	
1500 2 1/2 " " 6.00		HAND MADE.	
1000 3 " " 5.00		48 9-in., in crate, \$3.60	
800 3 1/4 " " 5.80		48 10 " " 4.80	
500 4 " " 4.50		24 11 " " 3.60	
320 5 " " 4.51		24 12 " " 4.80	
144 6 " " 3.16		12 14 " " 4.80	
		6 16 " " 4.50	

Send pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward, N. Y.
Or AUGUST ROLKER & SONS, New York Agents,
31 Barclay Street, New York City.

KELLER BROS.

213-15-17-19-21-23 Pearl St.,
NORRISTOWN, PA.

Manufacturers of Standard Flower Pots, red in color, equal to the best on the market; are 16 miles from Philadelphia, best of railroad connections. We give special attention to mail orders and make special sizes to order in quantities. A postal will bring prices and discounts.

RED POTS

SAMPLE POT AND PRICE LIST
ON APPLICATION.

C. C. POLLWORTH CO., MILWAUKEE, WIS.....

American Florist Ads

Always do business, week days and every day, Sundays and holidays, all over the country, at home and abroad.

FLOWER POTS ALL KINDS.

STANDARD POTS A SPECIALTY

List and SAMPLES FREE.
SWANN'S POTTERY M'FG CO.,
P. O. Box 78. MINNEAPOLIS, MINN.

WRITE

A. F. KOHR, 1521-23 N. LEAVITT ST.,
CHICAGO, ILL.,
FOR PRICES OF

Standard Pots

which for strength and porosity combined are the best on the market.

THOSE RED POTS

"STANDARDS"
FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'FY,
HARRY BALSLEY, DETROIT, MICH.,
Rep. 490 Howard St.

ALL Nurserymen, Seedsmen and Florists wishing to do business with Europe should send for the

"Horticultural Advertiser."

This is the British Trade Paper, being read weekly by all the Horticultural traders; it is also taken by over 1000 of the best continental houses. Annual subscription to cover cost of postage 75c. Money orders payable at Lowdham, Notts.

Address EDITORS OF THE "H. A."
Chilwell Nurseries, LOWDHAM, Notts, England.

When writing to any of the advertisers on this page please mention the American Florist.

Cleveland.

CLUB MEETS.—ANOTHER OUTING PLANNED.
—A DOZEN IN CONVENTION PARTY.—PERSONAL DOINGS.

The regular semi-monthly meeting of the club was held last Monday evening and was very well attended. It was decided to hold another outing. The place selected by the committee is Giesen's Garden and the date Thursday, September 4. Lots of fun for old and young is promised. The trip to Asheville was discussed and from present indications upward of a dozen will go from here.

Mrs. Adam Graham has returned from her eastern trip looking well.

Mrs. Schmitt is off on an extended visit to friends in Peoria, Ill.

Leonard Utzinger is remodeling his entire plant. ECHO.

Minneapolis.

TRADESHOWS LITTLE CHANGE.—WEATHER MORE FAVORABLE FOR THE GROWERS.—PENTY OF STOCK.—NOTES.

The weather conditions have improved somewhat and the rain is giving the growers a little show for their newly planted stock. Wm. Donaldson & Company are cutting from their new planted roses. Gladioli are being received in large quantities and on account of surplus have to be sold at a low figure to be moved. There are also some fine asters and very good carnations.

John Monson, of the Minneapolis Floral Company, is very busy getting things in shape for the coming year.

"Cal." Rice has been spending a week at Lake Minnetonka. C. F. R.

MOUNT VERNON, N. Y.—Arthur Dummett has sold a half interest in his business to Henry P. Wagner, for fifteen years foreman for E. W. Weimer. The firm will be known as Dummett & Wagner.

WASHINGTON, PA.—J. B. Murdock & Company, of Pittsburg, are pushing the work on their new greenhouses at Van Eman's Station. One iron-frame house 30x400 is nearing completion and another is under way. A well 200 feet deep is good for twenty barrels of water an hour.

The Standard



The lightest running, most rapid and powerful ventilating machinery in the market.

Duplex Gutters,

Made of wrought or cast iron with self adjusting sash bar clips. The only Drip Proof Metal Gutter offered to the Public. Send for my catalogue free.

E. Hippard,
Youngstown, O.

FOR SALE.

Ground Bone, Native Guano and Canadian Unleached Hardwood Ashes. For prices Address

GEORGE STEVENS, Peterboro, Ont., Can.

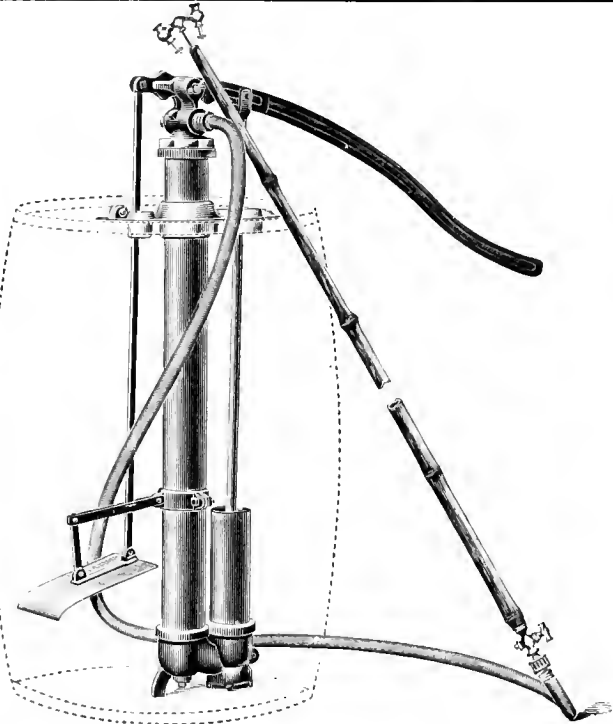
FOR SOMETHING NEW AND NICE

"Cluster of Roses Stationery"

for Florists, is the latest. Both plain and in colors. Samples free by

DAN'L B. LONG, Publisher, BUFFALO, N. Y.

Eclipse Spray Pump and Apparatus.



Descriptive Catalogue sent on Application.

Morrill & Morley, Benton Harbor, Mich.

ESTABLISHED 1866

EMIL STEFFENS

SUCC.^Y N. STEFFENS AND STEFFENS BROS.



335 EAST 21ST ST. NEW YORK CITY.

Sigmund Geller

Importer and Manufacturer of

FLORISTS' SUPPLIES

Complete Stock—New Goods—New Illustrated Catalogue Now Ready. Send for it.

108 W. 28th St., near 6th Ave., NEW YORK.

WE NOW OFFER

"Chemicals"

for making LIQUID COMPOST. Dry powders all soluble in water. Composts cost less than 1/20 per gal. Correspondence invited.

EASTERN CHEMICAL COMPANY,
620 Atlantic Ave., Boston.

American Florist Advertisements
Pay Advertisers.

100% PROFIT

IN SELLING

Sulpho-Tobacco Soap

(PATENTED.)

KILLS ALL INSECT LIFE.

Fertilizes and Invigorates Flowers, Plants, Shrubs, Etc.

PRICES LOW.

We Help You Sell It.

Write for sample cake and full particulars.

Larkin Soap Co. Buffalo, N. Y.

Please mention the American Florist when writing.



VIEW IN A RANGE OF

Dietsch Patent Short-Span Greenhouses

For this style of construction we claim the following advantages not possessed by any other method:

- 1st Largest bench room obtainable; all benches equally good.
- 2d Safe construction; roof a perfect truss; no high peaks.
- 3d Best ventilation; a run of ventilators to every two benches.
- 4th Least amount of shade possible with any method of roof and wall construction.
- 5th Ease of construction; greatest durability at minimum of expense.
- 6th Every requirement of modern construction fully provided for.

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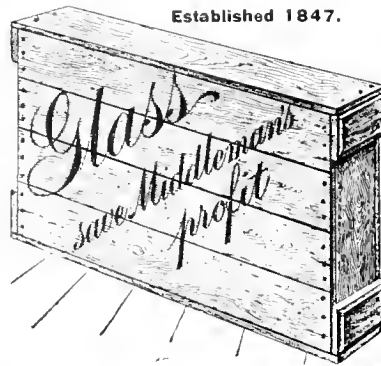
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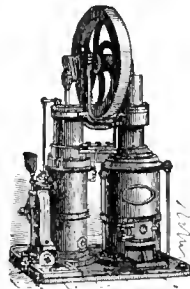


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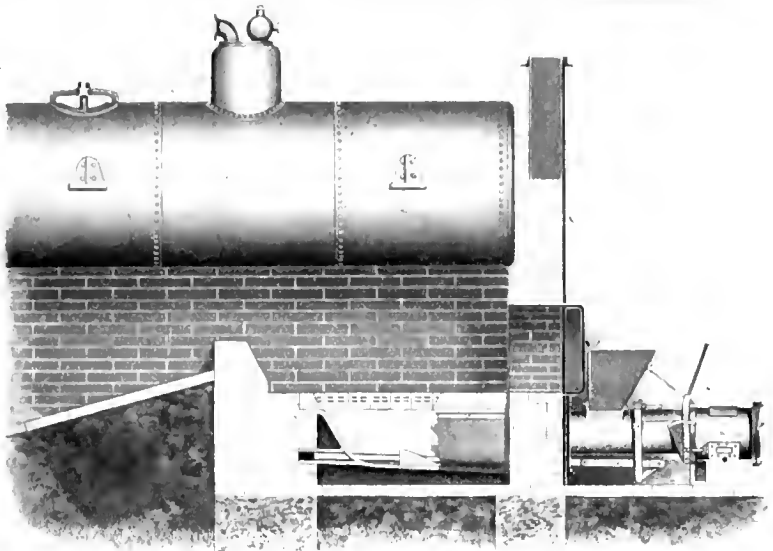
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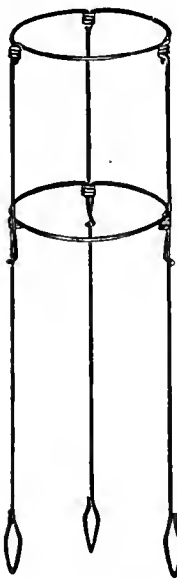
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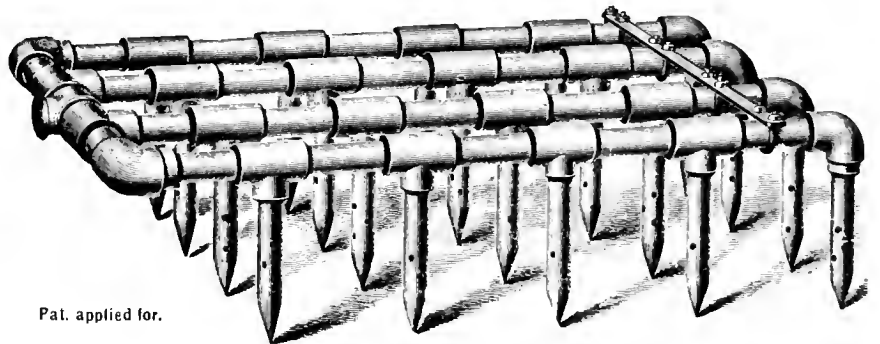
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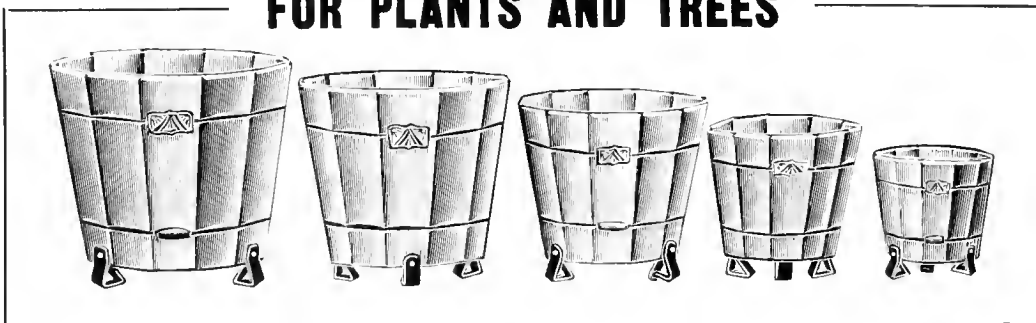
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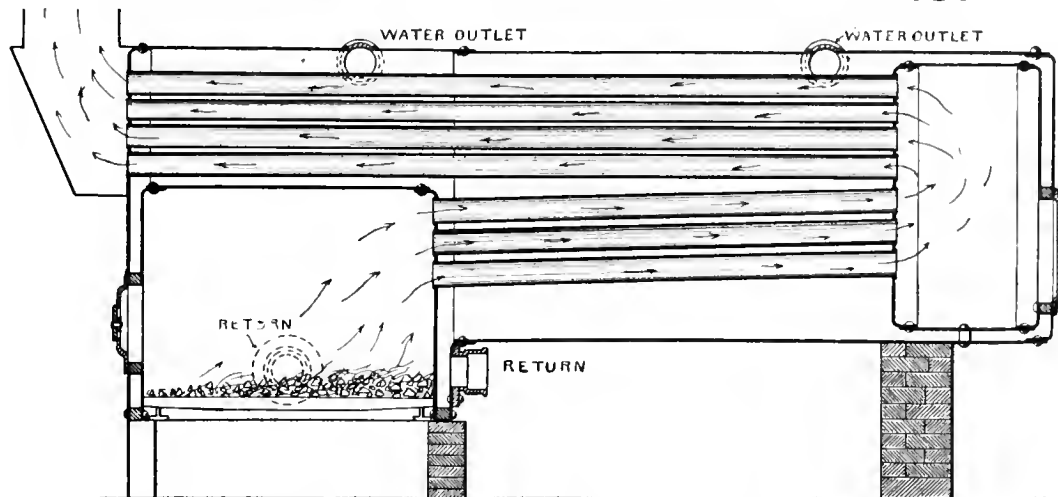
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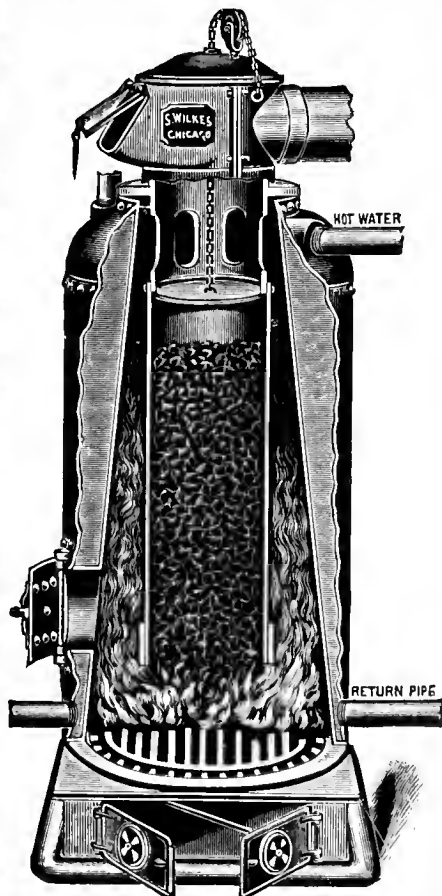


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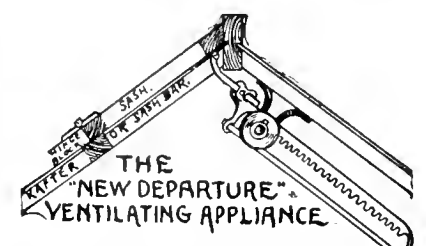
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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XIX.

CHICAGO AND NEW YORK, AUGUST 23, 1902

No. 742.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Copyright 1902, by American Florist Company.
Entered as Second-Class Mail Matter.

PUBLISHED EVERY SATURDAY BY

AMERICAN FLORIST COMPANY,
324 Dearborn St., Chicago.

Eastern Office: 79 Milk St., Boston.

Subscription, \$1.00 a year. To Europe, \$2.00.
Subscriptions accepted only from the trade.

THE AMERICAN CARNATION SOCIETY.

Annual convention at Brooklyn, N. Y., February, 1903. ALBERT M. HERR, Lancaster, Pa., secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual meeting at Chicago, November 11-15, 1902. EDWIN LONSDALE, Chestnut Hill, Pa., Sec'y.

AMERICAN ROSE SOCIETY.

Annual meeting at call of executive committee, LEONARD BARRON, 136 Liberty St., New York, secretary.

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The Asheville Convention.

MILWAUKEE FOR NEXT YEAR.

OFFICE FOR 1903:

President, John Burton, Philadelphia.

Vice-Pres., C. C. Pollworth, Milwaukee.

Secretary Wm. J. Stewart, Boston.

Treasurer. H. B. Beatty, Oil City, Pa.

The eighteenth annual meeting of the Society of American Florists is now a thing of the past. It marks a new era in the history of the organization and shows something of the rapid progress and broadening sphere of floriculture in America. A successful convention in Asheville would have been impossible ten years ago but that of last week must be recorded as one of the most satisfactory and surprising ever held by the society. It was surprising because successful beyond the most sanguine expectations. The number of visitors was quite large, there being between 300 and 400 in attendance. The gathering was highly representative of the various sections of the United States, perhaps more so than on any similar occasion. The trade exhibition was quite extensive and included an increased number of southern patrons.

Much of the success of the convention and the decorative work on the convention hall is due to the untiring efforts of Robert Bottomley, superintendent of the greenhouse department at Biltmore, whose work is all the more laudable because he is not an officer of the society. The splendid kentias and other decorative plants distributed about the hall were much admired by the numerous expert critics present and added materially to the attractiveness of the display.

Many familiar faces were missing and among those whose absence was greatly felt we find the names of John Burton, Edgar Sanders, Edwin Lonsdale, Robert Craig, John N. May, J. D. Carmody and Willis N. Rudd.

Vice-president J. W. C. Deake presided in the absence of President Burton and introduced Alfred S. Barnard to make the address of welcome. He has another of those silver tongues, like that of the other gentleman from Asheville, who

captured the convention at Buffalo last year, and said in part:

"Asheville appreciates your presence and acknowledges the favor thus conferred. That it should have been chosen the first southern city in which to hold a convention of your society, composed of members from all parts of the American continent, gives it a distinction of which it is justly proud. That her enterprising and progressive people will use their utmost endeavors to prove it worthy of this preference, I feel fully assured. The obligation for your proper entertainment has been cheerfully assumed by our entire citizenship. They rejoice at your coming and extend you a cordial welcome.

"The existence of your organization evinces the comprehensive character of modern society. It is additional evidence of the advanced state of industrial development. The occupation which it is intended to promote, is the bringing together in practical form, the combined gifts of science and art. It demands the closest alliance between knowledge and taste and fosters intimate and reciprocal relations between nature and talent. It is the science of cultivation adapted to the art of decoration.

"There is hardly a branch of trade which has undergone such remarkable improvement. The impetus given it by the wonderful discoveries in the production and modification of plant species and the corresponding achievements in every department of botany, has steadily raised it to an important position in our social economy. Its elevating and humanizing tendency is apparent wherever its practice has been introduced.

"In coming here you have made no mistake, nor could you have selected a more appropriate place. It would have been difficult for you to have visited a region surrounded by a greater wealth of natural splendor, or one which affords superior advantages for research and experiment. A gentle climate and congenial soil have brought a profusion of choicest verdure with which to clothe and decorate these majestic hills. Within the narrow compass of this mountain section Asa Gray reports a representative of every family which flourishes between the latitudes of Labrador and Wilmington.

"I shall not attempt to minutely describe that which appeals to you, companions of nature, in a language too eloquent for any tongue, or to put in words a sublime reality which is beyond the farthest reach of rarest fancy. There is not a leaf, or stem, or petal; not a calyx or corolla, which does not with inexpressible charm, unfold to you the story of its beginning, growth and consummation. May the influence of this meeting awaken within us an adequate appreciation of these attractions and inspire us to a larger application of your beautifying and perfecting skill.

"But not to our municipality alone, is your presence a source of pride and pleasure. It has the significance and a meaning far more extensive. Its local benefit and interest are secondary and incomparable to its capacity for possible good to state and nation. For these it carries an import pregnant with hope. It is a further revelation of that liberality of temper, which has done so much to consolidate and rehabilitate our country. It indicates the breaking down of another of those barriers which have too long, to the detriment of all sections, resisted and repelled every approach.

"The political orators of the day have been accustomed to ascribe our national reconciliation to the Spanish war. But they have mistaken causes and considered only a result, which that common danger brought to light. It is acquaintanceship, intercourse and contact, such as this, that has been most conducive to the process of cementation. What will so quickly remove and so permanently eradicate every trace of sectional animosity, prejudice and jealousy? Welcome the day when even the memory of such feelings shall have been forever extinguished, when all Americans inspired by a common patriotism, shall work together to construct upon this western hemisphere, a commonwealth, which for its freedom and generosity, its justice and its magnanimity, shall stand an enduring example to every race and every generation.

"In this spirit, and with this faith, we welcome you. I express the sentiment of those for whom I speak, when I pledge you nothing will be left undone, nothing will be withheld which can add to your comfort, or may tend to make your stay a pleasant one."

Ex-president O'Mara responded on behalf of the society. He said the visitors showed in their countenances, their appreciation of the cordial reception given them. Even the brooks, beautiful with beds of rhododendrons, azaleas and kalmias, seemed to bubble a hospitable southern welcome. The grand mountain scenery and many other visions of natural grandeur had realized the promises made by Asheville's representative, Mr. McLeod, last year, when he extended the invitation. That gentleman had declared, however, that the place was so near to Paradise that one might reach up and tickle the angels' feet, but this was the only declaration that the visitors had not found substantiated. But the society had a more serious motive in coming to the south, that they might cross the imaginary line, hold out their hands to their southern brethren and show that the organization, in fact as well as in name, is a national one. He said the members are glad to be in the sunny south, where Flora is to be seen at her best and where she dwells in every vale and upon every mountain top.

Mr. O'Mara next referred to the good accomplished through the instrumen-

ality of meetings of national organizations in eliminating sectionalism. He spoke of the patriotic memories revived by the names of Sumpter, Marion and other Revolutionary heroes of the south. He said that, in the recent Spanish war, the gallant "Joe" Wheeler was the first to spring to the front, and "the rebel yell" was as fierce and as soul stirring on the hills of Cuba as it was, years ago, in defense of what was believed to be right. Referring to the importance of aestheticism in floriculture, he maintained that the development of an educated taste is essential to success in the business; that the grower must feel an enthusiasm born of a love of the beautiful, as otherwise he cannot know the needs of a plant nor supply its wants.

The address of President Burton was then read. It was as follows:

President Burton's Address.

TO THE SOCIETY OF AMERICAN FLORISTS—LADIES AND GENTLEMEN:—It is customary for the president to address a few words of greeting to the members on the occasion of the opening of the annual convention and, although I regret being unable to be with you, I take the opportunity to call your attention to some matters pertinent to the welfare of the society.

The year just passed has, I believe, been a very prosperous one for the great majority of those engaged in commercial floriculture. A large amount of new building has been going on and that notwithstanding the increased cost of glass and other building materials. This, I believe, shows our business to be in a healthy condition and is a state of affairs on which we have every reason to congratulate ourselves.

The wisdom of the founders of the Society of American Florists in giving it the widest scope, instead of making it a close trade organization, has been often called in question. To many it has appeared inconsistent and unnatural to try to combine commercial and amateur gardening under one head. An amateur florist or gardener is interested only from an aesthetic standpoint and cares little as to whether gardening as a business be profitable or the reverse. The commercial florist, on the other hand, is in it for a living, or to increase his income. How, then, could any good be accomplished by trying to combine these two contradictory elements, and why not let the commercial men confine themselves strictly to the business end of the problem and by combination safeguard and promote the interests of the trade only?

To many of us the latter seemed the better course, and many think so still; but the die was cast in the beginning for good or ill and what we have to consider now is the practical results. To all appearance no harm has come of the liberal provisions as to membership. On the contrary the society remains practically a trade organization for the preservation and promotion of commercial floriculture, while welcoming within its ranks the amateur who desires to aid in the promotion of floriculture for its own sake, and the two elements seem to have worked together in entire harmony. A realization of this fact leads to the thought that perhaps we have not given as much consideration as to how we might utilize the patron or connoisseur, as we should have done.

The commercial florist and the amateur are both marching towards the same goal; namely, to make every part of North America blossom like the rose.

They march towards this goal for radically different reasons, it is true, but so long as they are going the same way they might as well join forces and get the benefit of co-operation. A beginning in this direction has already been made by offering the society's medals for meritorious new plants exhibited under the auspices of amateur organizations, which move is highly commendable and should be so extended as to include cultural skill on any class of plants, taste and skill in the arrangement and care of flower gardens and grounds, and for conspicuous service in relation to improving by selection or otherwise of any class of plants.

Recalling the pride with which prominent men in gardening matters exhibited their Victorian medals while visiting our country suggests to us that services of a similar nature here might be suitably rewarded in the same way and serve also to stimulate and encourage the younger element. When we remember the labors of such men as Paul, Barr, Baker, Elwes, Burbridge and Wallace, on the rose family, the lily family, the daffodil family, etc., we can readily see a vista opening out before us in this country where the efforts of the amateur as well as the commercial florist might be stimulated and encouraged by such a body as ours.

There are many families of plants, as for instance the phlox and the peonia, that from various causes are not cultivated as much as they deserve and which by concentrating on them the efforts of expert committees might be made extremely popular over a wide section of the country to the great delight of the amateur and the great profit of the commercial florist. In most sections of this country, particularly in the west, the peonia thrives greatly and is a far more satisfactory plant than the rose for outdoor planting. A vast number of inferior forms of this fine family have been disseminated and the nomenclature of same is in a state of great confusion.

Our society could do a good work by appointing an expert committee, say on the peonia, as a starter. A collection of all the named sorts now in commerce could be brought together at little expense, as most growers would gladly donate, for so laudable a purpose, and the synonyms, the good, the indifferent and the bad forms could be recorded in an authoritative way. Such a record would be of untold value and would prove a great stimulus to the popularity of the plant. An outgrowth of such a collection might be a peonia exhibition at some central point during the height of the flowering season. The funds for carrying on the work of such a committee might be secured partly by appropriation and partly by donation or subscription. The committee should have power to add to its number where desirable and to raise funds for the furtherance of the work under the sanction of the executive officers of the society.

The peonia is only one of many hardy plants, but it is a representative one, and eminently suitable as a subject to commence with. Too much stress cannot be laid on the point that a commencement should be made, for hardy plants are rapidly coming to the front and less and less trade is to be expected in soft-wooded stock for carpet bedding, which has for so many years been the mainstay of a large section of the trade. The question is not whether we approve of the change; we have to make the best of it, for the new order of things is already with us.

And in this connection we must observe



JOHN BURTON, OF PHILADELPHIA.

(Unanimously Re-elected President of the Society of American Florists at the Asheville Convention.)

the vast advance in the laying out and planting of grounds in recent years. The quantities of hardy stock required have been immense and there is every indication that the demand will be on the increase for a long time to come. Every commercial florist who does what is termed "a general trade" and who has as a rule considerable land, or can readily get same, should study this phase of the business and secure his share of the trade in hardy plants.

The recent additions to our original title of the words "Ornamental Horticulturists" has published the broadness of our work. The laying out of grounds, or landscape gardening, is a most important section and we cannot do too much for this branch of gardening. We should deprecate the custom, which is common among many of our florists and jobbing gardeners, of calling themselves "landscape gardeners." To be able to look after a greenhouse and plant a flower bed may warrant the title of florist but certainly not that of "landscape gardener." We should also set our faces sternly against the abuse of the word gardener.

A person who milks the cows and mows the lawn is a laborer, or man of all work, and the looseness of expression in common use of calling him a gardener is mainly responsible for bringing an ancient and honorable calling into such disrepute that horticulturists, floriculturists, landscape architects and a host of other titles have been resorted to, which

are not nearly as accurate nor appropriate as the old word. Gardening has been in all ages the inclination of kings and the choice of philosophers and, as the Prince de Ligne has it, "is the only passion that augments with age." Our best efforts should be put forth in maintaining the old title in its true significance.

CLOSER RELATIONS.

Ten years ago President Dean pointed out that the custom of forming out of our own membership so many auxiliary societies was likely to become so pronounced that there would be danger of greatly weakening the parent body. The chrysanthemum society, the carnation society, the rose society, and talk of an orchid society, a dahlia society, a fern society and divers others sufficiently indicated, even then, the tendency towards disintegration. Ever since that time efforts have been made to stem this tide and to inculcate correct principle of procedure in an opposite direction.

Various plans have been put forward but nothing definite has yet been accomplished excepting the ripening of sentiment in favor of closer relations with these existing independent bodies and of managing such matters in future, either by committees or sections. The committee plan seems to be the most simple, flexible and natural, but an opportunity will be given for a full and free discussion of the merits of various suggestions and no doubt the best will be selected. Sev-

eral of the brightest minds in the business have been studying the subject for a long time and will put the concrete results before you at this meeting.

MISSIONARY WORK.

Missionary work among the children, we should continue to preach the importance of this in season and out of season. We should keep everlastingly at it and endeavor by every means in our power to establish ways and means of interesting the young in gardening. On the continent of Europe they are in advance of us in this direction and it is highly desirable that we should have a full account of the system so that we may be guided by practical experience.

This subject was agitated by President Smith, at St. Louis, in 1893, and at that same meeting Robert Farquhar read an able paper on the subject and it was also advocated then by George C. Watson, in his paper "How to increase a love of flowers among the people." The impressions received in youth are deep and lasting and the training of the young should form a part of every horticultural or floricultural society. Our society ought to have a strong standing committee to attend to this work.

NOMENCLATURE.

Years ago we had an active vigilance committee on nomenclature. They did good work for a while but of late they seem either to have been asleep or non-existent. We need these watch-dogs all the time to prevent careless or ignorant dealers from taking advantage of us with old things under new names. A little timely barking from the committee now and again has a powerful deterrent effect and preserves a healthy moral tone in the trade on this subject.

CONVENTION CITIES.

We have wandered all over a great part of North America in our annual gatherings of the past, mostly in the east and north, as is natural from the density of our trade in these localities, and sometimes have gone west, and this year we have come south. This meeting may not be the largest in point of attendance, but it has several compensating features and its influence both on ourselves and on the south cannot fail but be beneficial.

Whenever we go from home we learn something, whenever we receive a visitor we learn something, not so much in the routine business of the society, perhaps, as in keeping our eyes and ears open. When a boy goes to a shop, a factory or a farm, it is not so much by being told about every little thing that he gets a grip on the business, but by keeping a bright lookout and absorbing as he goes along. If he cannot "catch on" in this way no amount of telling will ever do him any good.

To many of us the annual convention is our only chance of seeing distant places, and for that reason it seems a wise thing to select a new locality each year. But we ought to make some provision in the near future for the time when no invitation shall come to us from a desirable locality. In other organizations similar to ours the matter is left in the hands of the executive committee, and perhaps that would be the best plan to adopt. That method would certainly give ample opportunity for mature consideration. Of course under this method all obligations, implied or suggested, as to local entertainments would be waived and the place selected would be entirely absolved from any burden in that direction.

EXECUTIVE COMMITTEE WORK.

A number of matters of importance received the careful consideration of the executive committee at its annual meeting in February last, and the action taken then will appear in the reports of the executive officers. One thing that gave the committee cause for much anxious thought and discussion was the lack of a local florists' club to take charge of the exhibition at Asheville. After looking over the ground carefully from all sides and canvassing the merits of various plans and suggestions, it was finally decided to put the exhibition in charge of the secretary, giving him power to get such local assistance as would be necessary. Looking back with the light of experience of the past few months the wisdom of this action has been amply demonstrated.

Another thing that gave the committee some trouble was the society's medal for the best plant or flower. The committee has been criticised for the way the medal is offered. The burden of much of this criticism is the assumed impossibility of judging a plant and a flower in the same class. Such an assumption is largely imaginary and, not only that, but if a separate class is made you will at once hear a cry that a chrysanthemum should not be judged in the same class as a carnation, and so on without limit.

Looked at in the proper light the action of the committee is really the only method possible under the circumstances. The number of societies having the privilege of offering the medal has been increased and there is every reason to believe that much good will result, as the medal is looked upon as a most unique and valuable distinction from a general floricultural standpoint.

The subject of bulb culture in our southern states received the best thought of your executives, and an invitation was extended to all growers of bulbs in the south to submit samples at this convention for testing under the auspices of the society. It is hoped that much good may result from this and an impetus be given to a new industry in our country, it being felt that we have the soil and climate for growing such stock and with encouragement from the society it would soon be unnecessary to send abroad for supplies of that nature.

LIFE MEMBERSHIP.

It is noted with satisfaction that there has been a considerable increase in the list of life members. There is nothing that can add to the stability of the society better than a large life membership, and it is sincerely hoped that many more will avail themselves of the privilege.

EXHIBITIONS.

When we reflect that our society was formed to encourage floriculture and that an exhibition of flowers is one of the most potent methods of spreading a love of flowers among the people we must admit that it is our duty to encourage exhibition by every means in our power. We who make our living by commercial floriculture should never lose sight of the fact that the more people who take an interest in flowers and plants there are, the better will be the florists' business in general.

Too many of us are apt to be indifferent and even hostile, sometimes, to exhibitions because, as we say, they do not pay. That is, we are short sighted enough to consider the box office to be the only criterion. That attitude is a very great mistake. We ought to take a broader view and consider the general

effect on the public and its reaction from them to our business in course of time if we keep persistently at it. We should be emphatic in our approval of the flower show at all times.

It now becomes my duty to perform the saddest part, namely, the recording of the deaths of seven of our members during the year just passed. Most of them you were familiar with, they having been active in the society almost since its institution, and one of them, indeed, was elected to the highest honor in your gift. Their wise counsels and genial personalities, will be sadly missed and it will be a long time before we can adequately fill their places in the future.

Report of the Secretary.

One year ago the Society of American Florists and Ornamental Horticulturists met at Buffalo, N. Y., amid the excitements attending a great exposition; to-day we hold our eighteenth annual convention in this peaceful mountain city of the south. Almost a thousand miles



C. C. POLLWORTH.
(Vice-President-elect of the S. A. F.)

removed from the scenes of our recent activities, our banner floats in unfamiliar territory and we appeal to a new constituency. True, the steadfast friends who have stood in our ranks, unflinchingly loyal, in the days of prosperity and adversity alike, are here in goodly numbers, and we know that many others, unavoidably absent, are thinking of us, reviewing with the mind's eye the events that are here transpiring, and hearts warm with good wishes for the society they love, but many new faces greet us here to-day as we present our plea and invite our brothers of the south to join with us in a united effort to open up new channels of industry, that will bring in the coming years prestige and material advancement to American horticulture.

To meet in a place so remote from the scenes of our earlier labors, and yet retain without serious interruption the adherence of the rank and file of our membership, would not have been believed possible a few years ago, in the days when the location and accessibility of the annual convention was the gauge of our fluctuating membership roll. A steady trend towards a more permanent membership, the desirability of which has been fre-

quently referred to by your secretary, now seems happily inaugurated, and, as indicating a faith in the society's usefulness and approval of its methods by our conservative business and scientific men, is one of the most hopeful signs in our career at the present time.

The whole number of members in good standing as recorded in the annual report was 931, fifty being life members and 881 annual members. We have lost seven of these by death since the last meeting, and 144 members have either resigned or forfeited their membership by non-payment of dues for the year 1902. The list of deaths is as follows: Edmund M. Wood, December 12, 1901; Charles Common, January 25, 1902; Thomas J. Winters, January 31, 1902; James Comley, February 1, 1902; Conrad Eichholz, March 23, 1902; A. Whitcomb, August 24, 1901; W. G. Bertermann, June 29, 1902.

During the year 192 new members were added, of whom six are life members, and twelve annual members have changed to life membership by payment of the requisite fee. The new members are severally credited to the various states as follows: Florida, Iowa, Louisiana, Minnesota, New Hampshire, Oregon, Virginia, Hawaiian Islands and Australia, one each; North Carolina, Rhode Island and Canada, two each; Colorado, Connecticut, Indiana and Kentucky, three each; Wisconsin, four; District of Columbia, five; Missouri, seven; New Jersey, eight; Maryland and Michigan, nine each; Illinois, fourteen; Ohio, seventeen; Massachusetts, twenty-two; Pennsylvania, twenty-six; New York, forty-two.

It is unnecessary here to refer at any length to the proceedings of the convention at Buffalo, as this is fully recorded in the annual printed report. It was in every respect a creditable and successful meeting and the sessions were generally well attended, notwithstanding the attractions of the Pan-American Exposition. The principal enactments of the society were the acceptance of the national charter, the transfer of the assets to the new corporation and the adoption of a new constitution practically as reported by the incorporators, with the exception of the clause in reference to co-operative relations with other organizations. This matter is again before us for consideration at this convention. It is to be hoped that every member here will make it his duty to be present and assist in settling wisely this important question so that not alone individual, sectional or corporate benefit may accrue but that the advancement of American ornamental horticulture in its broadest sense may be hastened.

Besides a full account of the proceedings, the printed report contains valuable contributions on the "Red Spider," by Prof. F. H. Chittenden, and "Thrips in Greenhouses," by Prof. W. E. Hinds, reports of local progress from the various state vice-presidents, reports of exhibition committees, list of plants registered, list of plant introductions in America in 1901, state laws, and regulations of foreign governments regarding inspection and transportation of plants, special express rates on plants, bulbs and seeds, report of superintendent of sports, the charter and constitution of the society, list of members and accounts of summer meetings of auxiliary societies. The number of plant introductions for the year included eight cannas, twenty-five carnations, thirty-two chrysanthemums, eleven roses and forty miscellane-

ous. The widespread demand for copies of the volume is the best indication of its value as a book of reference.

The following named new plants have been registered by members during the year:

- August 13, 1901, Rose Climbing Clothilde Souper, by P. J. Borchmans Company.
- August 21, 1901, Rose Freedom, by Arthur Griffin.
- August 22, 1901, Cattleya Harrisonia superba, Cattleya speciosissima lilacina and Cattleya speciosissima striata marginata, by Lager & Hurrell.
- August 26, 1901, Cattleya Gaskelliana Mrs. Hugh J. Grant by Lager & Hurrell.
- August 30, 1901, Rose Philadelphia and Canna Mont Blanc, by Conrad & Jones Company.
- August 31, 1901, Rose Queen Victoria, by Good & Reese Company.
- September 27, 1901, Rose Mrs. Theodore Roosevelt and Rose Mark Twain, by Peter Henderson & Company.
- October 10, 1901, Carnation Dr. W. Seward Webb, by J. B. Trudo.
- October 14, 1901, Rose Lady Gay, by M. H. Walsh.
- November 1, 1901, Canna President Roosevelt, by C. W. Ward.
- November 15, 1901, Rose Dorothy Perkins, by Jackson & Perkins Company.
- November 16, 1901, Rose Nestor, Rose Young America and Rose Atlas, by Schmidt & Botley.
- December 7, 1901, Canna Duke of York, Duchess of York, Eastern Beauty, Evolution, Brandywine, Striped Beauty, Niagara, Queen of Holland and Cherokee, by Conrad & Jones Co.
- December 20, 1901, Sweet pea Christmas Comtes and Sweet pea Christmas Captain, by A. C. Zvolanek.
- January 14, 1902, Rose Miss Alice Roosevelt, by American Rose Company.
- February 25, 1902, Zonal geraniums J. D. Eisele, Jas. Davidson, Jupiter and Venus, by Henry Eichholz.
- March 3, 1902, Carnation Seth Low, by E. G. Hill Company.
- March 8, 1902, Carnation White Layde, by A. L. Thorne.
- May 10, 1902, Rose The Farquhar, by R. & J. Farquhar & Company.
- May 14, 1902, Zonal geranium Harriet Cleary, by J. M. Hortsburgh.
- May 15, 1902, Rose Queen Madge, by C. S. Fitz Simmonds.
- July 2, 1902, Dahlia Uecla Sam, Dahlia Alex, Wallace and Dahlia Mrs. E. T. Poyle, by H. Beaulieu.
- July 26, 1902, Dahlia Wm. Scott, by H. Beaulieu.
- July 28, 1902, Cattleya Hardyana Mrs. Geo. Schlegel, by Lager & Hurrell.
- July 31, 1902, Rose Wedding Bells, Rose Princess and Rose Urania, by M. H. Walsh.
- August 1, 1902, Carnation Miss Aimee, by J. B. Trudo.
- August 2, 1902, Hydrangea hortensis superba, by M. H. Walsh.

Medals have been awarded as follows during the year:

- Through the American Carnation Society, a silver medal to R. Witterstaetter for Carnation Adonis; a bronze medal to R. Witterstaetter for Carnation Albatros.
- Through the Horticultural Society of Chicago, a silver medal to The Chicago Carnation Company for Carnation Barlowarden.
- Through the Pennsylvania Horticultural Society, a silver medal to John N. May for Rose Mrs. Oliver Ames; a bronze medal to Edwin Lonsdale for Cypripedium Wymdmooreanum.
- Through the New York Florists' Club, a silver medal to J. N. May for Rose Mrs. Oliver Ames.
- Through the New Jersey Floricultural Society, a silver medal to John N. May for Rose Mrs. Oliver Ames.
- Through the State Florists' Association of Indiana, a silver medal to H. W. Roman for Chrysanthemum Majestic; a bronze medal to John Hartje for Carnation Snowdrift.
- Through the Newport Horticultural Society, a bronze medal for Cypripedium Gardnerianum (insigne - barbatum).

The executive board convened at Asheville on March 4, 5 and 6, 1902, all the members except three being present. Matters considered, in addition to the general programme and arrangements for this convention, were the identity of the rose Helen Gould with the old Baldwin, the auditing of the treasurer's report, proposed legislation in congress regarding the inspection and fumigation of nursery stock, the method of awarding the society's medals through other organizations, the testing of American-grown bulbs for forcing purposes, the proposed plant breeding conference at New York city and the question of closer relations with kindred societies. Owing to the fact that there is no florists' organization

A Gay Collection.

Among the advices of members who intended to join the Asheville delegation received by the Philadelphia committee was the following:

COMMITTEE ON TRANSPORTATION.

Florists' Club of Philadelphia.

Gentlemen:

I beg to advise you that I expect to go with the Philadelphia delegation to Asheville on August 18, 1902. Accompanying me will be the following:—



There were a few "warm babies" among the Philadelphia crowd, but so far as heard from at this writing, nothing quite so varied, vociferous and haleyn as the above, appeared in any "three berths" on the trip. Let us give thanks. G. C. W.

in Asheville to whom the work of arranging for the trade exhibition could be delegated, as has been customary in recent years, this duty was intrusted to the secretary with instructions that the maximum charge for exhibition space should be 20 cents per square foot, instead of 25 cents as heretofore. It was decided to recommend to the society the re-establishment of the nomenclature committee.

The programme for the meeting as outlined by the executive board and published in the preliminary bulletin has undergone some alterations necessitated by the recent sad bereavement sustained by our president and the inability of one of our speakers, Mr. Carmody, to be present and fill his' assignment on the programme. At the last moment, we are apprised of the sudden illness of another of our essayists, Mr. Edgar Sanders, but fortunately Mr. Sanders had prepared his paper before he was stricken down and it will be presented in due time.

The various committees and, as a rule, the state vice-presidents, have done earnest, thorough work for the society, and have been at all times ready and willing to respond to any call made upon them from the secretary's office. To them and to the members generally your secretary is indebted for considerate co-operation and friendly counsel in the many emergencies and perplexities that have arisen during the year. Never before has the interest in the society seemed so widespread and earnest among its members and this fact augurs well for the future of the old, yet ever young, S. A. F.

Treasurer's Report.

The report of Treasurer H. B. Beatty showed the society to be in a most prosperous condition. Following is a summary of the figures:

Balance Jan. 1, 1902.....	\$2,111.11
Receipts.....	753.00
Interest.....	21.40
	<hr/>
Disbursements.....	\$2,885.51
	454.95
Balance on hand.....	\$2,130.56
	<hr/>
LIFE MEMBERSHIP	
Balance on hand Jan. 1, 1902.....	\$1,574.68
Receipts membership dues.....	190.00
Interest.....	32.13
	<hr/>
Balance on hand.....	\$1,766.81

A number of state vice-presidents' reports were presented and a numerously signed paper was handed up and read by the secretary. It suggested that a resolution be passed and a petition drawn and sent at once to President Roosevelt, urging him to convene an extra session of congress "for the purpose either of settling the strike of the coal miners forthwith or of letting bituminous coal come in duty free, from October 1 to March 31, so that our trade may not suffer for want of coal. If speedy action is not taken we are afraid that many florists will be ruined in business by an exorbitant price for coal or by the supply being so short that coal cannot be obtained. We think it is our duty to ourselves and our families to forestall calamities of this kind."

On motion, the paper was referred to a special committee, which was instructed to consult with the executive committee of the society. Messrs. Scott, Ward, Harris, Pierson and Reuter were constituted the special committee. Special committees were appointed on obituary notices and the president's recommendations.

Wednesday's Proceedings.

On the morning of Wednesday, the second day, C. W. Ward's report on fertilizers was followed by brief remarks by the author and H. A. Siebrecht and P. O'Mara, to the effect that the beneficial use of chemicals is still a mooted question and that the grower will have to determine for himself, from the soil and conditions in his individual case, as to their comparative economy. Mr. Ward remarked that lime is beneficial with fertilizers containing phosphoric or other soluble acids.

The reports of the exhibition judges were read and filed.

Adam Graham, E. G. Hill and C. W. Ward, of the committee to which was referred the recommendations in the president's address, not having had time to prepare a report, made verbal statements approving the recommendation to create a praeonia committee and also the recommendation to empower the executive committee of the society to select the annual convention place and defray the expenses of the convention. Mr. Hillebrand

pioned the latter proposition because of what he called a great waste of money in entertaining the society. He said he thinks this expense too burdensome upon the small cities and that better results could be attained by some measure to increase the funds of the S. A. F. Mr. Ward disagreed with his colleagues upon details, and in view of the diversity of opinion in the committee, the convention, after a discussion which occupied the greater part of the morning session, voted to lay the whole matter on the table.

Papers were then read by Fred. R. Mathison, of Waltham, Mass., on "The Needs of the Commercial Florist in the North," and by Wm. R. Smith, superintendent of the Botanic Garden, Washington, D. C., on the bulb situation. There was no discussion.

The selection of a meeting place for 1903 produced an exciting struggle. The main competitors were Milwaukee and Baltimore, and Milwaukee finally won with 140 votes in a total of 238. Baltimore received seventy-three and Washington twenty-four.

J. C. Vaughan, of Chicago, then nominated President Burton for re-election. C. C. Pollworth, of Milwaukee, was named for vice-president, Messrs. Stewart and Seidewitz, for secretary, and H. B. Beatty for treasurer.

In presenting the name of Mr. Burton, Mr. Vaughan said: "Mr. Chairman:—I believe the facts will bear me out in claiming that in no commercial organization of our class has the consensus of opinion of the best element interested been more generally carried out than in ours during the seventeen years of the existence of this society. Throughout its history, and in all its councils, its work has been carried forward with wise judgment, actuated by the most unselfish and disinterested motives and it seems that almost without exception the right man for the year and the hour has been chosen. I may say that on every occasion this honorable office has sought the man, rather than the man the office.

"If upon any one occasion more than another this fact was forcibly demonstrated, and it was conceded that the office had sought the man, that occasion was at Buffalo last year, when our last president was chosen. Those familiar with the workings of this organization, the men who have been prominent in it since its inception, will agree with me, one and all, that on that occasion the office did seek the man. The man then selected so appreciated that honor that he could only accept when it came to him unsought and by a unanimous vote. His name was used by his silent, rather than definite, assent and, happily, his selection was, in the outcome, really unanimous.

"You all know of the severe afflictions under which our president is now suffering. One of those mysterious dispensations of Providence which human reason can neither attempt to explain or understand has kept him from our midst.

"When told that our president would not be present I remarked that it was impossible, that he is not made of that kind of material, that I knew he would be here, but of course when informed of the critical condition of his family, as a result of their sad bereavement, I fully appreciated the reason for his absence. I ask, therefore, gentlemen, that such a man be given a re-election, or at this time a unanimous nomination, which would be equivalent to an election, that he may

preside over our meetings and receive in our presence those honors which it has been our pleasure and delight to accord him.

"I feel that I voice the opinion of all who hear me, of those who study the best interests of our society, in asking of you this re-nomination. No man in this or any other society is better entitled to this compliment at our hands than 'Honest John' Burton."

Adam Graham seconded the nomination and on motion the meeting closed with Mr. Burton the only nominee.

An illustrated stereopticon lecture on "Scenes in Foreign Bulb and Plant Markets" was delivered on Wednesday evening by J. K. M. L. Farquhar, of Boston. The lecturer led his audience through the hyacinth-growing fields in Southern



JAMES W. DUNFORD.

(President-elect St. Louis Florists' Club.)

France and described particularly the nurseries of Antoine Crozy and his specialties. In passing to the north he traversed Belgium and Russia, returning to Germany and Holland and explaining meanwhile the extent and character of the horticultural industry in the countries visited. He then crossed the Pacific to the flower gardens and markets of China and Japan and the products of Hawaii. He spoke of the opportunities in the United States for the growing of bulbs that are now imported. He denied that cheap foreign labor is an obstacle, as it has been demonstrated that gladioli can be produced more cheaply in this country than in Europe.

Thursday's Proceedings.

At the opening of the morning session for the third day, the judges filed their report on florists' supplies, which had been deferred from the day before.

A paper by Prof. W. F. Massey, of Raleigh, N. C., entitled "Possibilities in Bulb Culture in the South" was then presented and, Prof. Massey not being present, ordered printed.

Geo. W. Wienhoeber, of Chicago, presented and read a paper on "Marketing Cut Flowers at Retail." The same subject from the standpoint of the wholesaler was treated in a paper forwarded by Edgar Sanders, of Chicago, who is ill at home. In response to a message of con-

dolence from the convention he wired the following: "Thanks regarding my absence; spirit willing but flesh weak; am getting better."

Closer relations between the S. A. F. and its auxiliary societies was the theme for discussion to-day, the question being upon the two proposed amendments to the constitution. The main proposition was criticised as cumbersome, impracticable and revolutionary, as engendering controversies between secretaries of different associations in the collection of dues, as savoring of coercion rather than co-operation, and so forth. A simpler plan, proposed as a substitute, was to give the S. A. F. charge of the registration of new varieties and permit the minor organizations to have representation in the governing board.

The discussion brought out a general interchange of views and various suggestions looking to a possible method of union and consolidation, but without result. Mr. O'Mara favored a conference by committees but objection was made that this had been repeatedly tried and failed. He also suggested the holding of a grand exhibition by the S. A. F., in February or March, as he thought this should cause all interests to gravitate to a plan of united action. Messrs. P. O'Mara and H. A. Siebrecht advised that the subject be dropped summarily and buried, as no agreement could be reached. J. K. M. L. Farquhar argued that the auxiliaries would gain by becoming branches of the great trunk organization, as their work would be more valuable with the endorsement of the S. A. F., for it would then receive international recognition.

Adam Graham, in summing up the discussion, said all were agreed, first, that it was desirable for the society to bring the auxiliary societies into closer relationship with itself; second, that no practicable scheme for attaining this object had as yet been devised. He believed that continued agitation would finally evolve a means to the accomplishment of the end, which could only be attained gradually. C. W. Ward, W. J. Stewart, Wm. Scott, J. N. Lamb and H. B. Beatty also participated in the discussion.

On motion of Mr. Pierson, the matter was referred to a new committee of nine members, to be appointed by the president, and to have upon it one representative from each auxiliary society.

On motion of Mr. O'Mara, a paonia committee of nine members was also provided for in accordance with President Burton's recommendation.

The following officers were then elected by unanimous vote: President, John Burton; vice-president, C. C. Pollworth; treasurer, H. B. Beatty. For secretary Wm. J. Stewart received 140 and E. A. Seidewitz 67 votes.

The Trade Exhibition.

The trade exhibition was a most gratifying success. While the display was neither so large nor so diversified as that at Buffalo last year, it was more extensive than some of those in the recent history of the society and was admirably staged. The exhibitors and their specialties were:

W. J. Cowee, Berlin, N. Y., gladioli and wired toothpicks.

J. G. & A. Esler, Saddle River, N. J., hose.

Mrs. H. Rehder, Wilmington, N. C., carnivorous plants.

A. T. De La Mare Printing and Publishing Company, New York, books.



Wreath of orchids, Beauties, valley, adiantum and leucothoe.



Wreath of gloxinias, lilies and miscellaneous foliage.

THE SIMPLEST YET MOST DIVERSIFIED FLORAL ARRANGEMENT IS THE WREATH.

Dayton Paper Novelty Company, Dayton, O., boxes.
 H. M. Altick, Dayton, O., labels.
 J. A. Peterson, Cincinnati, O., begonias and pandanus.
 Sunnyside Floral Nursery, Fayetteville, N. C., carnivorous and miscellaneous plants.
 Schloss Bros., New York, ribbons.
 L. H. Foster, Dorchester, Mass., *Neprolepis Anna Foster*.
 Lemuel Ball, Philadelphia, Pa., decorative plants.
 Pinchurst Nurseries, Pinchurst, N. C., plants and sash.
 Empire Printing and Box Company, Atlanta, Ga., boxes.
 J. Stern, Philadelphia, Pa., supplies.
 Chas. D. Ball, Philadelphia, Pa., palms and pandanus.
 H. Eichholz, Waynesboro, Pa., geraniums.
 P. J. Berckmans Company, Augusta, Ga., nursery stock and decorative plants.
 Geo. M. Garland, Des Plaines, Ill., iron gutter.
 Geo. Wittbold Company, Chicago, Ill., decorative plants.
 Robert Craig & Son., Philadelphia, Pa., decorative plants, including new *Croton Craighii*.
 H. Thaden, Atlanta, Ga., wire supports.
 F. R. Pierson Company, Tarrytown, N. Y., *Neprolepis Piersoni*.
 Siebrecht & Son, New Rochelle, N. Y., decorative plants.
 Henry A. Dreer, Philadelphia, Pa., decorative plants and bulbs.
 H. Bayersdorfer & Company, Philadelphia, Pa., supplies.
 S. S. Fennock, Philadelphia, ribbons.
 Jos. Kift & Son, Philadelphia, Pa., adjustable vases and cacti.
 Michigan Cut Flower Exchange, Detroit, Mich., insecticide.
 W. C. Krick, Brooklyn, N. Y., letters, tree and plant stands, pot hanger.

A. C. Oelschig, Savannah, Ga., ficuses.
 J. L. Banner & Company, Montezuma, N. C., galax leaves and leucothoe sprays.
 Jessamine Gardens, Jessamine, Fla., crinum.
 Brooks Sisters, Sorento, Fla., seeds.
 L. B. Brague, Hinsdale, Mass., hardy cut ferns, etc.
 Seegers Bros., Lisse, Holland, bulbs.
 H. J. Smith, Hinsdale, Mass., hardy cut ferns, etc.
 Vaughan's Seed Store, Chicago and New York, bulbs.
 W. H. Ernest, Washington, D. C., pots.
 Lucas & Boddington Company, New York, bulbs and oncidiums.
 Stump & Walter Company, New York, bulbs, jardiniere, etc.
 Henry F. Michell, Philadelphia, Pa., bulbs.
 I. N. Kramer & Son, Cedar Rapids, Ia., adjustable tubular greenhouse construction and pot hangers.
 Anders Rasmussen, New Albany, Ind., ventilator.
 Quaker City Machine Works, Richmond, Ind., ventilating machine.
 H. Beaulieu, Woodhaven, N. Y., dahlias (cut blooms) and tools.
 Lord & Burnham Company, Irvington, N. Y., greenhouse construction materials and boiler.
 Chadburn Manufacturing Company, Newburg, N. Y., automatic ventilator.
 Dillon Greenhouse Manufacturing Company, Bloomsburg, Pa., greenhouse construction materials.
 Central Foundry Company, New York, greenhouse pipe.
 United States Botanic Garden, Washington, D. C., miscellaneous plants.
 Misses Wilson, Montgomery, Ala., narcissus bulbs, home grown.
 Griffin Bros., Jacksonville, Fla., *Lilium Harrisii* bulbs, home grown.
 G. W. Vanderbilt, Asheville, N. C., fine specimen palms for decoration only.

M. Rice & Company, Philadelphia, made their display of supplies at the Battery Park hotel.

Committee on Fertilizers.

C. W. Ward, for the committee on fertilizers, presented the following report:
 The experiments referred to at the last annual meeting of this society have been in a measure continued, although I have been interfered with by frequent absences from home, consequently am not able to give definite data or calculations as to results obtained. I have, however, continued the feeding of various plants with chemical fertilizers, and have come to the conclusion that such may be profitably used by those having proper knowledge and experience. When we consider that fertility of soil is practically measured by the available or soluble plant food elements which it contains, it will be readily seen that fertility may be preserved by introducing into the soil these plant food elements in the same proportion as they are being exhausted by the growing plants.
 It has been found that the productivity of soils is largely influenced by their physical character. This has proven particularly true in the experimental work of using chemical plant foods, and it has been found that in order to get the best results with the use of chemical fertilizers it is necessary to employ soils containing considerable vegetable fiber. Soils in which this element is lacking easily become compacted, hardened, and impervious to heat, water and air, and to a considerable extent soured, and when in this condition plants do not make a healthy, strong growth in them.
 Last year at Buffalo I mentioned a work upon fertilizers, by Edward B. Voorhees, which may be obtained from

the McMillan Company, of New York; also another work entitled "Fertility of the Land," by Roberts, published by the same firm. These two books I would recommend to any one interested in floriculture as being well worthy of careful study.

The principal elements necessary for plant growth are stated as nitrogen, phosphoric acid, potash and lime. Nitrogen is probably the most essential of these elements. It is also the easiest lost and the most costly to replace. It is removed not only by the crop, but is also lost by drainage and evaporation, especially in cases where certain classes of crops are grown upon lands that are especially rich in nitrogen.

The principal sources of nitrogen are from natural manures, such as horse, sheep, cow and bird manures. The growing and plowing under of nitrogenous gathering crops, such as the various clovers, cow peas and soy beans, will also add to the nitrogen of the soil. The chemical sources of nitrogen are nitrate of soda, sulphate of ammonia, nitrate of potash, ground dried blood, as well as the refuse from slaughter houses known as "tankage."

Inasmuch as nitrogen is easily lost by evaporation and drainage, it will be readily seen that nitrogen should not be introduced into the soil much in excess of what the plants require; nor much faster than it is needed for immediate use.

The next most essential element of plant growth is stated as phosphoric acid, which most soils contain in considerable quantity. It may be advantageously applied in connection with potash and nitrogen. The principal sources from which phosphoric acid are derived are raw ground bone, steamed or boiled bone, or the refuse bone from glue factories; also bone black or animal charcoal. The most common source of acid phosphate is that which is generally sold as super phosphate or dissolved Carolina or Florida rock. Phosphoric acid is peculiar in this respect, that large quantities of it may be introduced into the soil where it will combine and remain until required by the plants. An excess of phosphoric acid does not seem to injure plants.

The third most important plant constituent is potash, but this is considered of less relative importance to plant growth than either phosphoric acid or nitrogen. In America most good soils are naturally very rich in phosphoric acid and potash and in many instances the addition of nitrogen alone or the plowing under of nitrogenous gathering crops will revive the fertility of the land for a considerable period. Potash is, however, considered a necessary fertilizer constituent by the authorities, and essential upon light sandy soils or peaty meadow lands. It is considered valuable for the building up of worn out soils and is thought to contribute to the growth of nitrogenous gathering plants.

The various sources of potash are sulphate of potash, muriate of potash, nitrate of potash, Kainet and wood ashes.

In the growth of greenhouse plants under glass the most convenient form in which chemical fertilizers can be employed is by watering the growing plants with solutions which are termed liquid fertilizers. While many formulas have been from time to time given out by different authorities, there does not seem to be any fixed formula which would be applicable under all conditions. The following formulas have been used by me with suc-

cess, but I would not be able at the present time to state which will give the best results, all conditions considered. So far as my practice has gone I have found it safe to use all of them in soils that are not deficient in fibrous material. In making up these formulas the materials are thoroughly pulverized and ground and mixed together. The solution is made by generally dissolving the chemicals, after mixture, in water in the proportion of about one ounce to one gallon of water. Plants are watered about once to twice each week, or once in two weeks, according to the strength of the solution and the vigor which the plant shows:

FORMULA A.

250 lbs. super phosphate
75 " nitrate of soda
50 " sulphate of potash.

Use one ounce to one gallon of water.

FORMULA B.

50 lbs. nitrate of soda
30 " nitrate of potash
20 " phosphate of ammonia.

Use one ounce to 12 gallons of water and apply twice each week.

FORMULA C.

250 lbs. super phosphate
30 " nitrate of potash
20 " phosphate of ammonia
50 " nitrate of soda

Use one ounce to 12 gallons of water when applied weekly, or one ounce to two gallons of water when applied every two weeks.

FORMULA D.

250 lbs. super phosphate
100 " ground dried blood
50 " phosphate of potash.

Applied every two weeks at the rate of one ounce to one gallon of water.

FORMULA E.

300 lbs. bone black
50 " sulphate potash
75 " nitrate of soda.

Use the same as Formula D.

The following formula has been used with considerable success for the purpose of reviving exhausted soils:

500 lbs. super phosphate
75 " sulphate of potash
300 " ground sheep manure.

This is sown in drills before planting at the rate of 300 to 500 pounds per acre, according to the character of soil. It is thoroughly stirred in and incorporated with the soil before setting the young plants in. It also may be sown broadcast upon the land and harrowed in at the rate of 1,000 to 2,000 pounds per acre, according as the soil is exhausted.

Wm. Stewart, of the Indiana Agricultural Experiment Station, has recommended the following general formula for use in rose growing:

Super phosphate, 130 lbs.
Sulphate of ammonia, 13 lbs.
Nitrate of soda, 31 lbs.
Sulphate of potash, 26 lbs.

Use at the rate of one ounce to one gallon of water and applied once each week at the rate of two quarts per square yard of bench surface. This is done until the plants have taken on a heavy growth, at which time the quantity and time of application is regulated according to the needs of the plants.

It may be stated as a general principle that in applying liquid chemical fertilizers the plants should have become well established and in full growth before the application is begun. The first applications should be rather light in strength and at considerable intervals apart, until active growth shows that the fertilizers are being assimilated. At this time the quantity and frequency of the applications may be increased. Where soils are dense and lacking in vegetable fiber chemical fertilizers should be used with great caution. The results obtained in such soils may prove quite different from those

obtained in soils with an abundant supply of vegetable fiber.

Wherever natural fertilizers can be obtained at reasonable prices they are without doubt more safe for ordinary florists' use than chemical fertilizers, as unless the grower has more or less knowledge of the action of chemical fertilizers there is considerable danger of injuring the plants. Natural manures should be well composted before being used in soils destined for the growth of plants indoors. The drainage from stables may be collected in a tank and used when largely diluted with water. At first thought it would seem that liquid manure water made from such source would be less dangerous than that made from manufactured chemicals, but in our practice this has not proved the case, as we have found it quite as easy to injure plants by over-doses of these natural manure waters as with the chemical liquids.

In conclusion, I would say that the physical condition of each grower's soil and the amount of plant food which it contains must determine his practice in the use of chemicals or other plant foods, and a knowledge of this can only be obtained by each individual's experimental practice. In the problem of using chemical fertilizers success is something that every florist must work out in his own locality under the particular conditions with which he is laboring. As an example, a grower having a rather light but poor soil, well filled with vegetable fiber, might be able to use considerable quantities of chemical fertilizers, while another grower having a dense, heavy, mineral soil deficient in vegetable fiber but not a poor soil might not be able to use them at all. But as I have before said, we have found no serious difficulty in using chemical fertilizers after we have once become familiar with the conditions and needs of our soil.

Wholesaling Cut Flowers.

BY EDGAR SANDERS, CHICAGO.

[Read before the Society of American Florists at the Asheville convention, August 19-22, 1902.]

When I accepted the invitation of Secretary Stewart to say something on the conditions and growth of the business of the wholesale florists of this country, to use a homely expression, I thought it would be as easy as "falling off a log." Of the Chicago end of the efforts I had no doubts, and supposed all I had to do, outside of printed authorities, was to apply to the proper parties and the thing was done. In a measure this did not fail me, but the stumbling block I struck was in what is called co-operative concerns. This failed me; and yet, in my humble opinion, this is a field, rightly conducted, that is fraught with much good, especially in cities of moderate size, and, as it has proved, even of the largest size, as witness New York; and yet in no way disparaging the value of the regular commission and wholesale grower-dealers as we find them to-day. You cannot get back to the old ways if you would, nor would a thoughtful business man do so if he could.

The general tendency of the day in the price of florists' products, including staple flowers, like other products of labor, averages lower and lower. To meet this condition greater combinations of capital are invested, more and more is given for the dollar. In the growing and the selling, smaller profits and larger sales are the rule. If the output of the wholesale man has enormously increased, so have his expenses. He could not make his salt did he sell no more at present day prices than he sold in the early stages of the business. Out of his 15 per cent has to come heavy rentals, expensive cold storage appliances, boxes, carefully ice-packed packages, secure against heat and cold, with no charge therefor, large advertising and labor bills, besides no end of sundries he finds

absolutely necessary through severe competition.

The old order of things changes, giving place to the new, in the florists' business no less than in others. Time was (and that within my time) when there was but one stage in the entire business: The man with the greenhouse took an order for bouquets, sometimes made them up on speculation at his greenhouse, then delivered to his customer direct, or peddled, as the case might be. Next came the flower store, first with a greenhouse attached, then simply a store, and the retail florist as we know him to-day came into existence. As the demand increased those who had no stores began to supply such as had, either with or without greenhouses. Then the "grower" became another division.

For many years, if this store man wanted extra flowers, he had to send to the greenhouses for them, often scattered long distances apart, and a sorry job he found it in hunting for his supplies. Presently the grower employed a carrier, who began to make the rounds of the stores with baskets or wagons, peddling the flowers he had to sell. Stems of the flowers in early days were no object; the bouquet maker made his own stems, so the grower or his agent could carry quite a supply in a pretty small package and make the round of the retail stores with such flowers as he had to sell.

In the course of time some growers began to be noted for choice stock. On the way to the market the retail men began to meet the grower at a half-way house and lighten his load. This, it seems, was notably so with John Henderson's stock of Flushing, N. Y., and "Jem" Johnson, Mr. Henderson's carrier, became a noted person. Other carriers followed Johnson's method of lightening their loads, and the Thirty-fourth street market, in New York, became a regular rendezvous, and ultimately a co-operative concern of many growers. In Boston a similar condition of things led to similar results.

But I am anticipating. The increased use of flowers grows apace, and growers make great effort to meet the demand. The short-stemmed flowers give place to the long-stemmed; they require better handling and are more burdensome to carry around, to say nothing of the great expense and inconvenience of this system and its peddling nature. Some shrewd men buy outright of these growers and sell to the retailer. Then others hold unsold stock and sell on a commission, but this proves unsatisfactory, and it is not long before the advent of the wholesale florist; dealer or commission man finds his opening. He opens a store, solicits consignments and sells on a commission basis of 15 per cent of what he sells, and we come to the latest factor into which the word "florist" is now divided, who, however, at this later day, has assumed many forms, as may appear as we get farther along.

Modest as this wholesale man was in the first inception as an entity, he is by no means so now. In the flower trade the grower may be likened to the farmer; the wholesale florist to the board of trade, or counting house, that sets up the machinery to move the crops. The middleman, if you will, and like all middlemen, whether they deserve it or not, sometimes, as the old saying goes, "gets more kicks than ha-pence." But you cannot now dispense with his services if you would. The busy wholesale centers, like New York and Chicago, particularly, would convince any man of this fact. The wholesaler has two distinct classes to deal with, the local or home buyer, who sees, or may see, the flowers he purchases, and the out-of-town buyer, who depends upon his shipper for the quality of the flowers he orders.

This shipping trade, brought to the system it is now by shrewd business men, cuts a very important figure in the florist industry, and that never could have been handled or worked up in the way it is now without the aid of the middleman. To make a lively wholesale market, it needs abundant growers to draw supplies from, and retail florists doing business within easy distance to look to it for their supplies. Second, a contributory region for shipping purposes, and the less this region is interfered with by other large cities or centers (where other wholesalers will start if they can), the better and faster the trade will grow. In this respect, Chicago,

as a center, now and for years to come, stands without a peer, not excepting New York and its vast contiguous population, that has Boston on its east, and Philadelphia south, almost within the distance that Chicago draws its supplies from. The east looks populous and is so, but is a narrow strip of land on the Atlantic slope compared to the country that Chicago represents, which is actually four-fifths of the people of the United States. Is it any wonder, its phenomenal growth in the flower industry?

WHAT WHOLESALERS STAND FOR.

The wholesale florists, as a body, although numbering all told in all the chief cities of the country at the present time under 100 firms, to be exact, just eighty firms, from the very conditions of that business are more in evidence and make a greater noise in the florists' world, use more strenuous means to find customers and a sale of flowers grown in the country, than all other florists or means combined. In 1896 there were 9,528 firms in divisions as shown by the Florists' Directory of that year in all classes. There are at least 12,000 at the present day, and in large cities an army of fakirs or street peddlers and the like, that, in case of glut, dispose of a large proportion of the cut flowers sent to the market. Many of these, however, are not listed in either city or Florists' Directory.

How many millions of dollars is the cut flower product of this country? Who knows? Do you? It might be answered that the census report for the year 1890 tells us the total cut flower sales then were \$14,175,328.01, figuring it down to a very fine point, surely.

But ten years later, according to the next census, as given us by Dr. B. T. Galloway in the Yearbook of Agriculture for 1899, and at the New York convention in 1900, the estimate was but \$12,500,000. Are those figures estimated on the same basis, representing, first, cost of the flowers, say, returned to the grower only, or does one represent the profits added of the wholesaler and retailer to the end. Ordinarily there is a wide discrepancy, in the very nature of the business, between what the grower gets in cold cash for his flowers and what the consumer pays in the final round-up. I will further say, from first to last—there is now an army of people engaged in making profit in selling flowers alone—that they will continue to increase as long as the country grows, and that there is money in it for those who keep abreast of the times. Every country and every city has its own ways of doing business, differing more or less from each other. It is so in the wholesale-flower trade. There is but one Covent Garden, coster and its cost, but one Paris flower market, but one New York and one Chicago.

THE WHOLESALER FLORIST'S BIRTH.

The wholesale florist is but a little more than a quarter of a century old, New York having the honor of starting about the year 1875. Boston and Chicago followed suit three years after, in 1878 or 1879. Farther back than a quarter of a century we have no good data to go by. It was ten years before the S. A. F., this now prosperous society, was organized. The first trade paper was established at the same time, and the American Florists' Directory came three years after that, in 1888. From this on we have some tangible records to go by as to the growth of each of the divisions of the florists' calling.

In the year 1899, or twelve years ago, New York was credited with fifteen wholesale florists, Boston with four, Chicago and Philadelphia with three each, Brooklyn, St. Louis, New York, New Jersey, Cincinnati and Milwaukee one each, a total of thirty-one firms. In 1896 the total had increased to half a hundred, while the present showing is eighty firms occupying bona fide stores, and excluding individual growers who have stands and sell their own flowers wholesale with others, or who rent the stores as co-operative bodies. In the last decade New York has doubled its number from fifteen to thirty, Chicago has risen from three to sixteen, Philadelphia to nine, Boston seems to have settled down to four; other cities like Denver, Detroit, Minneapolis, Buffalo, Cincinnati, Pittsburgh and Providence, all going through the early stages of established wholesale or co-operative stores.

The ratio of city population to wholesale flower stores is: in New York, one in 114,573; Chicago, 106,161; Boston, 112,-

172; St. Louis, 119,746. Baltimore, with its population of 508,957, gets along with one, and that co-operative. Pittsburg with 352,387 has one. Then comes Minneapolis, with 101,351, and Detroit, with 282,091, this, by the way, being co-operative also. The cities of Philadelphia and Baltimore have the credit of continuing in the old order of things later than any of the larger cities, in that a large part of the best growers are still selling direct by wagon and their own carrier. But there are signs of a change in Philadelphia, I understand, to a new order of things, either in the form of a market, or, perhaps, co-operative, or both.

EACH CITY'S STORY.

In what I will say on this, let it be understood, I claim no originality, hence expect no suits for plagiarism, as was the case of S. E. Gross, of my city, against the doughty French author of "Gyano." I am no millionaire and could not stand the title, so that if sundry persons in different parts of the country find what follows has a sort of familiar sound, it is explainable in my inability to clothe the information in better words than I received it. I make this acknowledgment in place of giving the names of my informants, so he that runs may read.

Greater New York, now Manhattan, the Empire City, then, let me begin with. As I before stated, the year 1875 seems to be settled on as the year when the actual wholesale commission man made his appearance in New York, or the country, but prior to that, one William Russell, of Jersey City, bought up large quantities of cut flowers from several growers, also receiving consignments from Connecticut, and held the stock for orders in Wilson's flower store, on Fourteenth street, selling directly to the retailer. A year or two later, Jas. Hart, still in the business, began to sell carnations for Gabriel Marc, of Woodside, L. I., on a 25 per cent commission, afterwards being employed by the largest rose growers in the vicinity to dispose of their stock in a similar manner, thus showing in an unmistakable manner the need of the middleman who was about to appear. As the next step, it seems, the late Jas. S. Allen started in, selling the flowers raised by his father, C. A. Allen, and those of Wm. C. Wilson and others, and who is considered to be the first man to reduce the cut flower commission business in New York city to a systematic basis.

In 1890 we find the following firms designated in the wholesale florist class as soliciting custom: J. K. Allen, 196 W. 24th street; W. S. Allen, 36 E. 23rd street; A. A. Copin, 11 W. 14th street, Copin Bros., 84th avenue and 35th street, Hammond & Hunter, 51 W. 30th street, Jas. Hart, 111 W. 39th street; Edw. C. Horan, 36 W. 29th street; John Muller, 113 W. 30th street; John B. Nugent, Jr., 53 W. 24th street; J. J. Perkins & Co., 43rd street and 6th avenue; Jas. Purdy, 109 W. 41st street; Theo. Robers, 153 W. 31st street; Ross & Millang, 1168 Broadway; W. F. Sheridan, 50 W. 30th street, and Thos. Young, Jr., 20 W. 24th street.

Of these names, both the Allens and Messrs. Copin, Hammond, Hart, Horan, Perkins, Purdy, Sheridan and Young are among the thirty firms still doing business on the same lines at the present day. In the early days, when old Bon Silene, or "Boston birds," were known from one end of the country to the other, a thousand roses in the market were more thought of than a hundred thousand now, and New York wholesale florists are supposed to turn over stock to the amount of between two and three million dollars, as against \$400,000 in 1867.

The center of New York city's wholesale flower trade to-day is between Twenty-seventh and Thirty-fourth streets, inclusive, between Broadway and Sixth and Eighth avenues. Of the thirty firms, eleven are now on Twenty-eighth street, eight on Thirtieth, four each on Twenty-sixth and Twenty-ninth, two now as high up as Thirty-fourth, and one as low as Twenty-seventh street, a wide distribution when compared with Chicago, with its concentrated wholesale center.

THE CO-OPERATIVE PLAN.

The wholesale florists' business of New York seems mainly done on the consignment or commission basis, and the regulation 15 per cent commission basis, except the co-operative Cut Flower Exchange that grew out of the restaurant

headquarters near the Thirty-fourth street ferry, where the growers' carriers congregated until the year 1892, when a corporation was formed and a building secured in the same locality, stands being rented at the rate of 65 cents per lineal foot to members, 75 cents to others. The average sales are near \$100,000, the sales over mostly by eight o'clock in the morning. There are 150 members of the exchange, fifty others who rent stands only, with a number of commission men who do business here in the early hours of the morning. These pay an entrance fee of \$15 each, besides the rental. The exchange has paid 10 per cent dividends on the investment.

In 1891 the New York Cut Flower Company was formed by a number of prominent growers selling their own product and some producers on commission, at the time of starting. This company was claimed at the time to represent a yearly output of \$750,000 worth of cut flowers, and were the first to grade roses as known now, into fancy, special, extra, No. 1 and No. 2, respectively. Both these co-operative concerns in May, this year, moved into the Coogan building, corner of Twenty-sixth street and Sixth avenue, and the memorable headquarters so long known, at the Thirty-fourth street ferry, is left to A. Herrmann and a few others of the Long Island growers, who still stick by the old stand.

CHICAGO STARTS AT WHOLESALING.

Chicago comes next to New York in the time of starting, and in the number of wholesale firms doing business. To J. C. Vaughan, the seedsman, must be given the credit in starting. It had its origin in some of Mr. Vaughan's customers sending in some boxes of flowers for him to try and sell. He, sending one of his young men to the retail stores, found it easy to do so. The news spread, other consignments came, and pretty soon O. W. Presc, his young man, was making regular daily visits, first with a basket, then, as supplies increased, with a horse and buggy, when regular rounds were made by this carrier all over the city. In short order it was found that these supplies were the very thing the retail stores were after, that the retailers would go to the store for them, and a wholesale flower department was added to his business. This was run very successfully until the year 1889, when the late E. H. Hunt bought it out and started on East Lake street. The business is still in existence, with a large supply department added.

In 1884 the Kennicott Brothers opened the first exclusively wholesale flower store, in a space eight feet square. This business grew apace, and in 1892 a stock company was formed, the name changed to Kennicott Brothers Company. The Plesers became interested, and the firm now has 7,000 feet of salesroom and is doing one of the largest wholesale commission businesses in the city, if not in the country.

Since Chicago's first start then, it, like its sister cities, has seen lots of changes in the men who essayed the way, as well as the method under which the business is now conducted. Some men and firms in the fourteen years have dropped by the wayside altogether, and some of the men once in the swim are now managers for others in the survival of the fittest. The wholesale district has now centered in and near the corner of Wabash avenue and Randolph street, the Atlas block having no less than eleven of the firms, all with large, fine stores for doing business. This is a great advantage in every way, for both seller and buyer.

Twelve years ago Chicago had four wholesale florists, C. H. Fisk, Kennicott Bros., E. H. Hunt and M. Olson; all there were up to December, 1891. There were noises in the air about this time, and outcries against the commission man by some growers, besides which, some of the latter day leviathans of the trade, noted in this city, seemed to want to handle their own flowers and money. It resulted in a stock company called the Chicago Florists' Exchange, which started and opened for business on Lake street, November 15, 1892. It lasted but two years, however, and had no success.

The number of wholesalers at the present day is somewhat smaller than a couple of years ago, but these survivors are stronger than ever and the business harder for new ones to break into. Only a part of the wholesalers are commission houses, pure and simple. They may

be divided thus: Bassett & Washburn, Peter Reinberg, George Reinberg, Wieter Bros. and Poehlmann Bros. are grower-dealers, selling their own monster output from at least 2,000,000 feet of glass. J. A. Budlong sells his own and several neighbors' stock. John Muno and Weiland & Risch operate on the same lines. Benthey & Company sell their own cut from New Castle, Indiana, and some on commission. Frank Garland sells mainly his own and the growth of three brothers, with but little on commission. E. C. Amling, E. H. Hunt, A. L. Randall, Kennicott Bros. Co. and McKellar & Winter-son are the only bona fide wholesale commission florists in the city.

There is another peculiarity worth noting in Chicago and the west. The fast-growing trade in all kinds of florists' supply goods is being handled almost exclusively through these commission houses. That, in eastern cities, we find entirely separate. The enormous amount of wire work still used in the west is almost exclusively made and sold by the wholesale florists. The amount of money turned over by Chicago wholesale florists in a year is probably near one and a half million dollars.

THE BOSTON STORY.

P. Welch, about the year 1879, first started, subsequently forming a partnership with his brothers, David and Edward, as Welch Brothers. Shortly after this the Waban Rose Conservatories opened an office in Boston for the sale of their own products and that of any other growers who might consign to them. W. J. Stewart, then a retail florist, disposed of this to take charge of the Waban Rose Conservatories' city business. After two years Mr. Stewart purchased this, continuing the same for about ten years, when he sold out to Peck & Sutherland, employes of his. Mr. Peck dying a year after, was succeeded by his partner, Geo. A. Sutherland. Prior to Mr. Stewart's retirement, another employe, N. J. McCarthy, started into business as N. J. McCarthy & Co., who, however, does not claim now to be a commission man. His usual method is to buy outright from growers, taking his chances of selling out at a profit, and he claims to make more money that way than he could on commission sales.

The Boston Flower Growers' Co-operative Association is composed of a number of growers, who, in old times, peddled their flowers from store to store, instead of through commission men. From congregating in a near-by saloon on Tremont street, like the Thirty-fourth street ferry case in New York, was evolved the housing of themselves in a sort of a market. They are now incorporated, grown considerably, pay good dividends, and are an established feature in the Boston trade.

AT PHILADELPHIA.

In 1878, W. E. Meehan started, and closed out in 1880. In 1881 Chas. E. Pennock started; he was succeeded in 1887 by Samuel S. Pennock, who still continues, and does the largest business in this line in the city. His cold storage is very complete and he does a very large shipping business. In 1885 Wm. J. Baker started, making a specialty of carnations, and now does a general business. In 1884 W. J. Stewart, of Boston, opened a branch store in Philadelphia, with N. J. McCarthy in charge, mostly used for exchange of stock between Philadelphia and Boston; in operation two and a half years. In 1886 La Roche & Stahl started a wholesale branch, confined to a few growers; in 1890 succeeded by Chas. B. Stahl, still in business. In 1889 Fred Ehret opened a store in the up-town district, and is still in the business. In 1892 J. De Forest Ely, seedsman, opened a wholesale cut flower department, lasted two years, managed by Edward Reid, who afterward started for himself and still continues. In later years Dumont & Co., Leo Niessen (formerly with S. S. Pennock) and W. J. Moore started in the business. None handle supplies; a few handle plants on commission at the holidays. There is no flower market, and around this city all the large growers still sell their own product direct to the retailers, so that the commission man gets very few near-by growers.

AT CINCINNATI, OHIO.

More than fifty years ago Cincinnati had the proud distinction of being the Queen City of the West, in the gardening line as well as others. It had its horticultural journal, a very vigorous horticultural society, a good horticultural library and fine flower shows for the time.

It also had some first class nurseryman florists, who did the bulk of the trade in plants and flowers west of the Alleghenies. If Chicago and other smaller cities of the time had a call for fancy floral work, Cincinnati supplied them, as did New York east of the slope.

As time will not allow me to give a general history, I come at once to the wholesale cut flower business, past and present. The first to make the venture was one Frank Church, a well-known figure now in Chicago, who started in 1887, but the business had a short life. In 1887, M. J. McCullough & Sons telegraphed E. G. Gillett, then in Springfield, Ohio, to come on and take charge of a wholesale cut flower department the firm had opened on a very small scale. At first the only consignor was McFadden, then the largest grower in the city. Afterwards the cuts from C. C. Mitchell and others were added. A few months after this the late H. L. Sunderbruch opened to sell cut flowers at wholesale. At his death the business was sold to Albert, a brother, William Mann and Frank Ball, who ran it for about a year, when a stock company was formed under the name of the Cincinnati Cut Flower Co., which still does a good business on a regular commission basis from consignors from Ohio and nearby states. E. G. Gillett continued manager for McCullough for five years, but in September, 1896, started for himself in a small room at 113 East Third street. The business has greatly increased, requiring more and more space, with a good outlook for its continuance.

Mr. Gillette is one of the trustees of the Jabez Elliott Flower Market, the only building of its kind in the United States, exclusively used for the sale of plants and flowers. The market is considered a benefit to the trade and does no injury to the retail store business, as those having stands mostly cater to a different class of customers, who, market-like, carry away their purchases, and as a general thing, of a cheaper grade than is handled by the regular retail store men.

ST. LOUIS ENTERS THE LIST.

In November, 1889, John M. Hudson opened the first wholesale cut flower store in St. Louis. Two years after he sold to Andrew Brandenburg, who in six months sold to S. Mount & Co., the "company" being Geo. Osterberg, who moved the store to 109 West Twelfth street.

In 1890 Wm. Ellison and C. A. Kuehn started up at 1122 Pine street, opening a general supply store for florists. In three years they separated. C. A. Kuehn continues at the old stand, doing a fine business. Wm. Ellison opened in 1893, S. Mount & Co. sold out to Fleckenstein & Co., who opened up at 1325 Pine street, handling cut flowers exclusively. A year after W. C. Wors opened at 2728 Olive street, to supply the West End florists. In 1894 E. H. Michel opened what was known as the St. Louis Cut Flower Co., at 1620 Olive street. The same year Wm. Ellison gave up, two years after W. C. Wors, leaving the three. Then the Fleckenstein Company sold out to the Mound City folks, composed of Albert Bauer and the Fleckenstein Brothers. W. G. Berning bought the St. Louis Cut Flower Co., handling a limited amount of supplies. There is at the present time in St. Louis C. A. Kuehn, who carries a complete line of supplies and makes all the wire work for florists in the city. H. G. Berning is also in a large way, with six regular hands. S. M. Ellis handles a limited quantity of supplies, but is noted for good shippers of flowers.

No co-operative stores have ever been tried in St. Louis. Most of the shipments coming to St. Louis come from Illinois, Indiana, Ohio and Iowa, as well as Missouri.

MILWAUKEE, WIS.

The inception of the wholesale business in Milwaukee was in 1878 and took the form of an exchange with C. B. Whittall as president. It was incorporated in 1889, under the name of The Wisconsin Cut Flower Exchange. The stockholders were not confined to home men and it was considered advisable to include the purchase of bulbs, seeds, putty, paints, etc., for the reason it was desired to spread over considerable territory. But it drifted into the ordinary commission business in flowers and florists' sundries, in stock for sale. Mr. Whittall says "the consignors soon got to be specialists, and there has been a steady division going on for years, until now the florist is not a grower and the grower not a florist, and the commission house is paid 15 per cent



A DINNER DECORATION BY WALTER KREITLING & CO., OHIOAGO.

for taking the 'kicks' of both." The Exchange flourished for a while, became insolvent and in 1897 was sold out to Holton & Hunkel, at the old stand, 457 Milwaukee street, where they are still doing a good commission business. This firm the present year have bought out C. B. Whitnall's greenhouse business, who is retiring, so like other western houses, the firm will join the growing brigade of grower dealers.

In 1896 Ellis and Pollworth, both old employes of the Exchange, formed a company under the firm name of Ellis & Pollworth and opened a commission house, including supplies, at 137 Oneida avenue, where it continues to the present time. Three years after its start, C. C. Pollworth bought out his partner's interest, ran a short time under his own name, finally branching largely into greenhouses in an up-to-date condition of things, and incorporated, thus forming another of the grower-dealers in the wholesale class. Milwaukee wholesalers have always depended largely on consignments from other states.

BALTIMORE, MD.

The city of Baltimore, although one of the old ones, has no wholesale florists, and is at present looked after in this line by the Florists' Exchange, which is cooperative for mutual benefits. No mem-

ber can hold more than three shares, entitling the holder to one vote. It was established in 1892, has about forty growers and does a business of from \$37,000 to \$40,000 a year. A large part of the flowers grown in and about Baltimore are yet delivered to retailers in the old style.

Two efforts have been made to start commission stores, but they could not find business enough to exist.

DETROIT, MICH.

This city did not enter the list of wholesale florists until the first year of the twentieth century, when the Michigan Cut Flower Exchange came into existence under the management of Wm. Dilger, but owned by John Breitmeyer's Sons as a wholesale depot for the sale of their own stock and consignments from outside sources.

The Retailing of Flowers.

BY GEORGE WILLIAM WIENHOEBER, CHICAGO.

(Read before the Society of American Florists at the Asheville convention, August 19 22 1902.)

Early this spring I went to Milwaukee to see what our close relatives, the nurserymen, were doing at their convention. I learned much and looked wise, but there was one incident which made me feel a little uneasy. One of the older and

more successful looking men leisurely got up to address the assembly, in which time my close friend, Mr. Sanders, had time to whisper to me: "Very droll old-timer; listen." And I did. He began with an allegory, made classical allusions and I pricked up my ears not to miss anything so good, for it really was. Suddenly and without warning, and I believe he was looking directly at me, he said: "Gentlemen, the worst enemy that the nurseryman has to contend with, is the young 'bugger.' The entomologist, bugologist, 'bugger,' if you please. His alarms are enervating and we stand aghast as we read of the new insect pests which he has discovered and describes at length in the journals, and which are about to ruin us. We study the matter over and what we discover is the codlin moth or woolly aphis, which you and I have successfully combated this past score of years. But," he continued, "once in a while this young 'bugger' does find a new spot on the butterfly's wing and of course he helps some."

I am not a "bugger" before "bugologists," but a newly initiated member in the Society of American Florists, and, although my position comes dangerously near to that of the young "bugger," I still have courage to say what is to follow, and if I err in the minds of those

of experience please remember the proverbial grain of salt.

Mr. Sanders has said much in his paper on marketing of flowers at wholesale and now that we are about to consider the marketing of flowers at retail the first thought that occurs to us is what a vast difference there is between the grower of flowers and the one who finally prepares them for the reception table. The one is close to nature, practical and scientific, and the other unfortunately, in many cases, is a specialist in decorating with flowers. To market flowers to him means the catching of people's fancies and stimulating them to buy what he has to sell.

The retail florist deals with people who not alone are demanding fresh and beautiful flowers, but also a "service" which will bring to them the flowers in the most attractive manner. The wholesaler knows nothing about "service" in the retail sense, but to the retailer it is part of his stock in trade, good will of the business, and it is the factor, the quality of flowers being equal, which gives him rank in the estimation of flower lovers.

To some "service" means style; to others, courteous business relations with patrons, or artistic taste, when in fact it includes these and every other feature in the retail trade outside of the paying of dollars for stock and the receiving of dollars in return. It is the essential feature in the marketing of flowers at retail and grows out of the sentiment which the retailer has or must acquire.

With florists it is especially true that prices are seemingly arbitrary, since they vary with a hundred conditions and then not simultaneously throughout the trade in all cases. If the prices, then, are not a fixed standard of comparison, what is left but the "service" to determine whether we are a more desirable firm to deal with than our competitor, whose prices are equally fluctuating. The retailer must find a market for his flowers, not alone by selling the best flower at acceptable prices, but he must increase it by winning his patrons' good will and confidence, and by a disposition which is generous and leans to the beautiful.

In considering the leading retail florists of the country, we have this generous way of doing business exemplified. They realize the necessity of education in every direction possible, for how are they going to sympathize with a patron's wishes or tastes if they have but one point of view, the business man's. Furthermore the florist is expected to be original and not a copyist, and how can he be so if he does not learn to study the beautiful in all he sees, thereby cultivating his taste and imagination.

Let him become interested in the styles of architecture of country homes that he may make himself interesting to his client who wishes to have a border of herbaceous perennials planted so that they may be seen from the loggia on the east side of the house. Let him cultivate a taste for colors by strolling through the art galleries occasionally, where suggestions for color, design, and it is not stretching the point to say that a technique in the handling of flowers may be learned. The florist has read in the papers recently that at King Edward's coronation the programmes were so designed in color that when the thousands of people in the observation stands used them they unconsciously became a scheme in the grandly planned decorations. Again, he has eagerly looked over the last number of "Country Life in America," and that article in a spring number of "Atlantic Monthly" on Rhododendrons, did not escape him.

But you are thinking that I have gotten off from my subject of the marketing of flowers, and I assure you that I have not. Every time that you get a new impetus of thought from the many subjects which stir the imagination you begin to work with renewed interest. These thoughts are the heaven which lighten the sogginess of a purely business life. It assists you personally, and what is a tradesman who does not make himself felt in what he sells or who does not arouse admiration in those with whom he comes in contact. An Italian inscription on a sun dial in a garden which I saw in France, translated, read thus: "Life is short, art is long." How easily this can be remembered, and what a consolation it is.

The florists of to-day and those of tomorrow will widen their horizons if they

wish to anticipate their customers' wishes. Those who wait until customers force ideas onto them will soon find themselves forsaken as dead weight. Florists must be initiative and not content to follow. And in what field could a man find a better chance to derive pleasure and enjoyment than in the florist business? He has business relations with people of most cultivated tastes and they are willing to award his good taste with generous support and appreciation if he is deserving. In many cases they make the business almost ideal by waiving money considerations entirely. Florists should be associated with all that is beautiful, and what a pleasure it is to establish a business which will not mar this illusion.

Essentially, the retailer of flowers is the one who distributes them for final use. He is the fakir surrounded by his dense masses of flowers which brighten the streets in spring, or he is the established florist of undisputed reputation whose establishment we have known for the past twenty years. Both do a legitimate business; both sell commodities, have receipts and expenditures and both have profits. They are the extremes of a trade which disposes of vast quantities of flowers daily. How interesting these extremes are, and what a vast number of enterprises rank between them.

I have said that the fakir does a legitimate business, but why, then, are city ordinances passed periodically to prevent him from hawking his wares? It is because these ordinances do not reflect the true fakir question. These ordinances state under what conditions flowers may be sold, but in no case do they touch the essential point, that of selling flowers at prices which the florists believe are damagingly low. After the fakir has complied with the city ordinance, he is governed by the same business principles as is any other tradesman and he should be allowed in trade competition unmolested. The store man sees him and he ought to reason philosophically this way:

Is it possible that florists should have ever considered this poor fellow seriously in their business competitions by their trying to interfere with his earning a livelihood? Is it possible that we envy him a cent of what he has earned by his persistent efforts of halting every passer-by with a bunch of flowers? Think of it! He makes many persons happy in a small way and he is able to gratify many wishes with his flowers for a penny.

We florists are not always generous. The very fact that the fakir disposes of enormous quantities of flowers is proof of his standing in the community. On a Saturday afternoon what a pleasure it is to see the streets voluntarily decorated with bright flowers, which make us forget that we are rushing along and know not why. For a moment we think of the Cafe de la Paix, in Paris, where we buy nose-gays from the flower girls, and straightaway our appetite is better. Be generous with the fakir, for he never was your competitor, and, although alarmist florists talk of overproduction of flowers, due to the fakir trade, do not believe that that is significant, because every time that a trade exigency arises business relations soon solve the problem.

At the other extreme is the distributor of flowers who is successful, up-to-date and progressive—the retail florist. His prices are an afterthought, and his aim is to cultivate business integrity and to keep the best flowers only, which he presents attractively. As a business man he instills courtesy into his assistants and he is generous in all his dealings. His transactions are principally with women, and he learns that to count pennies is poor economy. In case of mistakes, he makes every endeavor to correct them. If in any way he has been at fault or his customer thinks that he has, he graciously makes amends.

Nor is he hereby humbling himself, but on the contrary he is liberal. We inspire in others the sentiments which we ourselves feel, or, in other words, your customer won't be liberal if you are short-sighted, obstinate and ungenerous. Consider each customer's patronage as capital invested, which annually pays you interest, and you will guard this customer's wishes just as jealously as a cash investment. The florist is always willing to please, no matter how exclusive his position is, for he is not in business this year alone, but for many more to come.

The practical handling of flowers for

retail distribution has its many points for consideration. The keeping of stock is governed by local conditions. Flowers may be put aside from which orders are filled, or they may at the same time become part of a display in a window or refrigerator. At all events they must receive the very best of care, although often in the commission house, they have received more injury than you can repair. In establishments where the trade comes largely from regular customers, it is well to get them accustomed to order their flowers in advance, where it is possible. This will enable you to put their orders aside or you can fill them directly from the stock as it comes in, thus obviating unnecessary handling. This class of trade is very desirable, for its demands may be calculated quite definitely, and the handling of expensive flowers ceases to be a source of speculation.

The delivering of flowers is as important as is the selling in the first place. If you send a special messenger, let him be intelligent and neat. Attire him as trade demands and have him reflect the character of your business until the florists are finally at their destination. Florists' delivery wagons should be made attractive by their excellence in design and workmanship and not flashy, so as to suggest vulgarity. Have good horses and plain harnesses.

Think of the beauty of the flowers which you are sending and the people who are to receive them and the wagons which might be advertised, used to advertise chewing gum, will seem cheap and tawdry. People on receiving flowers should feel that they are truly beautiful, so don't put the flowers to shame with rocco surroundings.

The presentation and arrangement of flowers at retail is an art in itself and the florist who does not employ the best talent possible will soon discover his error. People entering the florist's store expect to be refreshed and enthused, for the few minutes that they are in it, by the artistic display of flowers and plants. They expect to see the surroundings executed in the best taste possible.

The decorations must be artistic and the furniture and wares must be of good design and color. All details will be noticed, even the stationery on the writing table. Your appointments should not be costly and elegant, but well chosen and good. People of to-day do not want extravagantly elaborated stores but want to go to a florist "shop." To them a shop is a place where the business is purely a specialty in its line, in distinction from the department store, and the shop's chief advertisement is good taste and originality.

In such a place people feel that their orders are receiving personal care and they like to become acquainted with the clerks and the proprietor so that they may confidentially tell them how they may improve the business in this or that way. The shop accordingly becomes rather a small place to our notion, but as the underlying ideas are so good let each customer think of it in this way and try to win their confidences. These people travel much, see much and their ideas may, in many cases, be of real value to you. But there are other branches in the business which you must impress upon them in a professional way. As a decorator your work has a professional merit, and in gaining a reputation for laying out city gardens and courts you become an Ornamental Horticulturist.

Make others feel the enthusiasm which you have in your business, and especially those who work for you. Make them feel some of your energy, so that they will feel that they are associated with a progressive house. Your men should also have ideas, so that your daily criticism won't be necessary. Give your reliable men an interest in the business, as most business houses to-day do. People will soon notice this spirit, which is characteristic of your business, and in their interest will tell others that roses coming from your place "are so much fresher than those from" elsewhere. They will not challenge the way you do things as regards correctness. Let them feel that you are unrivaled and don't let any suspicions arise to the contrary.

Consistency is another factor in presenting your flowers. Fix a standard for your business and then live up to it, not in one branch alone but throughout, so

that your reliability won't be doubted in any part of your work. An expensively engraved bill head sent out from your office will not offset a package carelessly put up. It were better to have less elaborate engraving and a better shipping clerk. Don't astonish people with extremes of lavishness or of thrift.

Just a word about advertising before I conclude. As a member of the widespread commercial system in the United States in this year of our Lord, 1902, I am forced to say, advertise. But first take an invoice of your wares, facilities, experience and ideas, and what remains of these as salable commodities advertise before the community. Be honest and advertise only such things which you really have. Study all the text books on psychology for ways in which you can impress the human mind, but first have something and then tell about it honestly.

The florist should avoid broadcast advertising. Don't destroy the sweeter associations with which flowers are generally sent by undue publicity. There are so many ways of getting up winning advertisements that it is unfortunate that any of the commoner ways should be used. The florist has a dignified business, so let his advertising appear accordingly. Many mistake eccentricity and bizarreness for originality and that which is artistic.

The mailing list should rather be small than large. Each person on the list should feel that he is personally in touch with the business and not one of ten thousand. You make him feel this by sending such matter only as is carefully gotten up. By having a small list, you can afford to raise the standard of your advertising, your paper is better and your engravings used are the best and are faultlessly printed. The best is good enough. If your competitor gets out a calendar lithographed in fourteen colors, don't send out one in sixteen colors, but improve on his "ad" by distributing something more original. Have you ever thought how hackneyed the custom of sending calendars on the first of January has become?

In the business with which I am associated, I have tried to make the advertising feature seem as an undercurrent not to be felt at once, but gradually. First of all our building, which is devoted entirely to the business, is rather quaint in design and built of an English brick. Golden arbor vitae in the window boxes in winter and dwarfed begonias and ivies in summer help to give it a distinctive air. Signs have been avoided and commercial earmarks are scarcely to be seen. The store is treated in a colonial tone, and the show rooms for pottery and other wares are in Flemish oak and are treated vigorously. In the photographic studio, photographs of creditable work and those for illustrative purposes are made. From the photographs and from original sketches printing plates are made for folders and attractive sheets, which are printed in our print shop. By doing our own printing we are able to carry out the feeling which we are trying to establish in other branches of the business. We are not endeavoring to be aggressive in our advertising but are employing such means which will have a stimulating effect, so to speak.

To close, I wish to say that although I have taken liberties with the subject for discussion, I have had but one point in view, and that is the broadness of the retail florists' field. The details are only added to carry out certain lines of thought, I argue that the florist's market grows in proportion as his horizon of ideas and ambitions enlarges. So if by any means his imagination is brightened, his ideas increased, or his executive ability is strengthened, the market will take care of itself. Practical details I have purposely avoided.

Needs of the Northern Florists.

BY FRED. B. MATHISON, WALTHAM, MASS.

[Read before the Society of American Florists at the Asheville convention, August 19-22, 1902.]

A year ago the Society of American Florists was cordially invited to meet in convention in the "Land of the Sky." As an inducement we were told the angels would be near to us. We see them now. We feel very much at home in their presence, knowing them to be loyal friends of the society, who at all times are endeavoring to do something for the

beautiful, yes, for the angels and for the advancement of horticulture and floriculture in every state, town and hamlet in the Union. The society feels confident of the hearty co-operation of its members in the south and the ladies and gentlemen present.

The subject allotted to me by the executive committee relates to some of the wants of the north, east and west, in the line of plants, trees, shrubs, vines, bulbs, tuberous, stocks for budding, grafting, etc., by the commercial florist, the landscape architect, the park and cemetery superintendents, the private and the jobbing gardener. Their wants and requirements to successfully carry on their various lines of horticulture are varied and many. The usual way of supplying these wants is by importing from foreign countries, European countries in particu-



JAMES H. MITCHELL.

lar, at great cost and much risk, and frequently with unsatisfactory results in general.

Without going into details, the imports into the United States of plants, trees and bulbs, and other horticultural products, seeds not included, from January, 1901, to May, 1902, reached in round numbers to the value of \$1,500,000. I am informed by a gentleman who is in a position to know that the imports in horticultural goods would average over \$1,000,000 a year for the past four years, with imports on the increase, but the exports were less than \$100,000 per year.

Now, my friends of the south, is it necessary that the florists of the United States should continue to pay out so much money for imports and receive so little for exports? With this great country at our feet, it has been said that about everything we import can be produced between Virginia and Texas.

Without going into items, some of the principal imports are azaleas, bay trees, spiraeas, rhododendrons, trees and shrubbery. These heavy and bulky goods cost about 50 per cent freight and customs duties alone. Hybrid roses in great quantities, Manetti stocks by the million, palms in variety, lily of the valley pips by the million, bulbs and tuberous are imported in unlimited quantities at an advance on their original cost of not less than 50 per cent for freights and customs duties.

I do not know of any good reason why this country should not become a great exporter, horticulturally, as well as a large importer. A free interchange of merchandise is the very life of our business. The government at Washington is doing a good work on the right lines by organizing the Bureau of Plant Industry. Already good results have been secured by following the policy laid down thus, and important plant problems are being studied.

A foreign visitor to Massachusetts, who

is connected with the Royal Netherlands Nurseries, Hillegom, Holland, an authority on tulips, says twenty-five of his countrymen connected with the bulb exporting business are about to visit the United States in connection with that industry. He is reported as saying that Holland annually sends to this country \$1,000,000 worth of bulbs, from which the United States gets \$250,000 in duties. I think the above goes to show that the gentleman from Holland thinks favorably of some part of this country for the growing of bulbs.

A clipping from a Dutch correspondent to the Horticultural Trade Journal says: "Seldom, if ever, has the month of May kept us in such a continuous wintry temperature as this year, and bulb crops are very likely to show the results. This refers more especially to tulips, which must have their principal growth in the month of May. Hyacinths have not suffered quite so much; their growth is made later. It will greatly depend upon the weather we get in June if we get a fairly good crop." I think the gentlemen from Holland have some good reasons for looking up new and more favorable locations where climatic conditions play such an important part in the bulb industry.

What is the south doing on these lines? What are the prospects for American grown bulbs? Mr. Beuchi, Buffalo, has for several years successfully grown white-Romans. His stock of 10,000 were equal in all respects to the French bulbs delivered in 1901 and will force fully as well as the French stock. They can be produced in this country at less cost than the imported ones. He grows them in muck land, and the richer he makes it the better.

State Vice-president Lillenthal, of the S. A. F., San Francisco, is in receipt of a communication from the Department of Agriculture in Washington containing a valuable amount of information relative to the bulb industry which he is anxious to see introduced into California. Owing to its climatic advantages as a bulb producing section, Secretary Wilson, Department of Agriculture, announces his active sympathy with the horticulturists of California in their efforts to enter this profitable field of commercial gardening.

There are other states in the Union that can justly claim genial temperatures and congenial soils, that can produce almost anything from peanuts to a full-grown, stately pine. The state of North Carolina is one of the oldest of the colonies and one of the original thirteen states, but her history horticulturally is not so generally known as some of the other states. Still it is said to be the greatest botanical state in the Union. On her soil was the first settlement in the United States, on it the first white child of English parentage was born, and the white people of this state probably represent to-day the purest type of American citizens in the Union.

But it is not the history of the state I will speak of, but some of the resources of the state and the south in general, as they exist in the present, and the great possibilities for future development horticulturally.

No other one thing contributes so much to satisfactory results in horticulture as a favorable climate, which this state has. There are none of the extremes of heat and cold, nor in rainfall or drought. The geographical position and topographical features of North Carolina afford a variety of soil and climate hardly to be found elsewhere within the same range of territory. This variety of soil and climate makes it one of the richest in the American Union. There is no section of the state in which some variety of fruit, vegetables or flowers cannot be grown profitably, strawberries, peaches and apples, not forgetting the peanuts, for not less than 100,000 acres were planted in the year 1900, with a production of about 4,000,000 bushels. Another profitable field is the production of plants and bulbs. While this industry has received but little attention, whenever experiments have been made very satisfactory results have been shown. The above are a few extracts from the Congressional Record by Mr. Small, of North Carolina, June 28, 1902.

It is generally understood by gentlemen in active business, and well versed in everything pertaining to horticulture, that a great many plants, trees, shrubs, bulbs and things too numerous to mention here can be grown on the American

continent that are at the present time being imported from foreign countries at great cost and much risk, with satisfactory results in many instances.

I do not pretend to tell the florists and nurserymen of the south what to grow, or what not to grow, for I am not well enough acquainted with the conditions and conveniences to give such advice in any particular state or locality, but I do know some of the wants and needs of the east and west in the line of horticultural products.

This state is making rapid progress in some lines, notably in raising fruit. In 1890 there were in the state in round numbers 1,250,000 apple trees, in 1900, 6,500,000. Peaches increased in the same time thirty per cent. Plums, prunes and pears increased more than threefold in ten years. The value of manufactured tobacco in 1890 was \$4,750,000. In 1899 7,000 acres were devoted to small fruits alone. There were 5,600 acres of strawberries; the total yield for 1899 was 10,500,000 quarts. This business was started only twenty-seven years ago and is increasing rapidly.

Large areas of this section of the state are within a belt where frost is seldom seen, but the horticultural establishments are not keeping the pace set by market gardeners. By the census statistics for June, 1900, only fifteen establishments are given with ninety acres of improved land. Value of land, buildings and implements, only \$27,000; value of the products, \$25,000; expended for labor, \$4,000. This is a small showing for such a large and fertile state.

It is earnestly hoped, and it is confidently predicted, that the gathering of the S. A. F. in the south will be of inestimable value, not only to the south in general, but to the horticultural world at large. It is up to the florists and nurserymen of the state of North Carolina in particular, and to the south in general, to take advantage of the present opportunity by putting their shoulders to the wheel and proving to the florists of America and to the world what they can do, and will do, for the advancement of the noblest and grandest work, horticulture.

It has been proven that this state can grow tuberose to perfection. The choicest kind of dahlias will increase threefold faster here than in any other known place. Lily of the valley is indigenous to the state. No doubt but that it can be successfully grown and be much better ripened than that which comes from Europe. The demand for first-class pips the past five years has been enormous. A gentleman, an acknowledged authority, says all kinds of tulips, narcissi, freesias, tuberose and the general collection of Holland bulbs can be grown in this state successfully for commercial uses. Rhododendrons are native here, and they luxuriate in the ravines and dells of the mountains.

The foundation is right here with water in unlimited quantities, and it seems as though the grandest collection the world ever saw could be raised here, but we still keep on importing at high cost, with sixty per cent added freight and customs duties, with a shortage at the present time in Europe. Millions of Manetti are imported yearly at a cost of not less than \$12 per thousand on the average, to the consumer. They can be grown and are, to a limited extent, in South Carolina, and are as easy to grow as watermelons.

Again, we are buying from Holland large quantities of H. P. budded roses anywhere from three to eight inches from the ground, taken from wet land in an unripened condition, not even losing their foliage in some cases, before being packed for shipment. They lay around the vicinity of New York till spring, are then sent broadcast to auction rooms, department stores, and other places to be distributed to the public, usually with such unsatisfactory results as to be a positive injury to this branch of the business.

In numerous instances clematis and other vines, Indian and Ghent azaleas, and a general collection of shrubbery are kept in storage so long that they are practically useless for ornamental or any other planting, and a sure disappointment to the last purchaser. Ordinary kinds of shrubs and the native evergreens in suitable sizes for immediate planting were not easily found two or three years ago. Red oaks and pin oak could not be found in the eastern part of the country to plant a boulevard in Massachusetts, and

this is the kind of hard-wooded trees, North Carolina.

Low budded H. P. roses can and are grown in South Carolina. Samples sent to Massachusetts last winter were all right, nice plants well ripened, and forced for Easter satisfactorily to those concerned. A consignment of Crimson Rambles from the same state arrived in Massachusetts in the pink of condition, wood well ripened, clear out to the joints; the best forcing plants we had for the spring of 1902.

The lilies are another class of bulbs we have been importing of late years at heavy cost and little profit, with little prospect of getting anything better. The Bermudas are unreliable. The Japanese are decidedly worse this year. From press reports the outlook in Japan is very discouraging. One grower in my section forced about 60,000 bulbs for last Easter with over 100 per cent loss by disease partly, and apparently by no care being given to selection. The Department of Agriculture at Washington has been carefully looking into the matter and says some of the causes are indiscriminate propagation and in a great measure lifting out of the ground before they are ripe.

Here is an opportunity for the bulb grower of the south. Now what will the florists and nurserymen of the south do? The S. A. F. is here to talk and advise with you on many important matters in regard to this great and growing industry. We here and we feel confident that a new impetus will be given to the business with the south. We want to receive your bills of lading and some of the products of this vast territory at our feet, the sunny south. We hope for more and closer business relations with our friends and co-laborers from the great south. Let progress be the watchword in horticulture and horticulture in every branch.

I believe most firmly in the future greatness of American horticulture. Our markets are unlimited. I see no reason why we cannot become a nation of exporters as well as importers, and compete with Europe and Japan. In the past five years horticulture has advanced more rapidly in the United States than at any period in history and is exciting the admiration and wonder of the horticultural world. In round numbers June 1, 1901, the number of florist establishments in the United States was more than 6,000 with 43,000 acres of improved land. The value of land, buildings, and implements was \$25,000,000; value of the product about \$18,500,000. At the same date the number of nurseries, was 750, with 52,000 acres of land, value of land and buildings, \$8,000,000. The value of florists' and nurserymen's establishments combined, was \$61,000,000; value of product combined, \$12,000,000. The imports of seeds for the first five months of 1902 were valued at \$1,639,139; the exports to the same date were \$1,695,250. So the florists, nurserymen and seed growers in America are importing more than is exported in the same line of goods. This is not as it should be.

Bulb Culture in North Carolina.

BY W. F. MASSEY, RALEIGH, N. C.

[Presented to the Society of American Florists at the Asheville convention, August 19-22, 1902.]

As is well known, eastern North Carolina, along the Coast Line railroad, has for a number of years been the source of supply for tuberose bulbs in this country. The culture of these bulbs was for years quite a profitable one, and the work is still carried on, though with a decreased demand and lower prices.

A few years ago, as part of my work as horticulturist at the North Carolina Agricultural Experiment Station, I began to experiment with other bulbs in the hope of extending the bulb industry and adding something of a more profitable character, and capable of greater extension than the culture of the tuberose alone. Knowing the immense quantities of Roman hyacinths and candidum lilies imported from France and elsewhere, and the large amount of importation of the Bermuda lily and sundry of the narcissus family, I began work mainly with these. I wish, however, to state that whatever of success I have had in these experiments has been due to the liberality of the trade, and especially the house of Peter Henderson & Co., in furnishing me

with stock for the work, since not a cent has been appropriated by the North Carolina station for the work, and the sales, though small, have always paid the labor bill.

I have also been handicapped by the fact that all my work has been on a soil poorly adapted to the cultivation of these bulbs. Our hilly clay soil about Raleigh dries out with greater rapidity during the summer than any soil of a clayey nature I have ever seen, and the long periods of drought to which we are subjected makes the culture of bulbs a very uncertain matter. Hence one of the chief facts I have ascertained is that the section about Raleigh and all that known as the lower Piedmont country, east of the Occaneechee hills, furnishes few, if any places for the successful cultivation of bulbs, with the exception of the narcissi and the Italian hyacinth, though in the moist and fertile bottom lands the candidum lily will make fine bulbs.

In my first experiments at the North Carolina station I was furnished with quite a lot of candidum lilies and when these were returned to New York they were pronounced the finest bulbs ever sent there. Since then I have been endeavoring, with poor success, to get up a stock of the candidum lily. Soil, or method, or both, have been against me, for I find it hard to increase them with any rapidity.

My first experiments with the Bermuda lily were very badly handicapped by the presence of the disease prevalent in the island, and I have been mainly engaged in getting rid of that. I have now succeeded in clearing my stock of this disease, and had none this year, though the crop is a failure by reason of the drought and the great heat. This will be shown by the size of the bulbs I have brought for exhibition, which are here to illustrate a failure, and not a success. Still I am not discouraged about the future of the Bermuda lily in North Carolina, except in the section where I have been working, in which I am sure they will never be a success. That the climate is not unfavorable was shown a few years ago.

I received in December a large number of bulbs of this lily, which were left over the season's sales. They had started in the cases and had long white shoots on every bulb. Of course, in planting them at that season of the year I had to plant them deep enough to cover these stems. They lived and grew and so far as the tops were concerned they looked extremely well until ripening time. When lifted, I found that the original bulbs had not increased in size, if they had not really decreased, and above the bulbs were long rows of offsets which the plants had been mainly engaged in making.

At this time I had gotten possession of far better soil on my private grounds, and I moved the lily and other bulb work on to my own grounds and abandoned it at the station farm, which was manifestly too poor and stiff for the work. With soil of fine fertility I hoped for better results. But here again I have been met with the ever-recurring drought, and have finally come to the conclusion that the Bermuda lily, while destined to become a success in North Carolina, must be grown in the same section where the tuberose are grown. We have in this section black, peaty soils that can be well drained, and in many places are well drained and planted in large fields of strawberries, which will make ideal soils for the lily, being in the mild winter climate, and a soil perennially moist.

Some years ago the Department of Agriculture in Washington became interested in the Bermuda lily culture, and the secretary asked me to experiment with bulbs sent me from the department. I replied that I probably had already more stock than the department had, but that I thought it would be well to try an experiment in the soils I have indicated in the eastern coast plain. I cautioned them, however, not to have the bulbs planted until November, so as to avoid an untimely growth, though I had had them five here all winter with green tops. I named a man to make the experiment and one of the men from the department came down to show him how to plant. The bulbs were set the first of October and at once mulched with pine leaves. The result was a lot of blanched white stems, under the mulch, before cold weather set in, and destruction later.



JOSEPH TAILBY'S NEW YELLOW CALLA.

(Richardia Elliottiana R. albo-maculata.)

Had the bulbs been planted later, and without this mulch, this tender and timely growth would not have taken place. Our soil never freezes deep enough to injure the lilies if allowed to be in natural condition, and mulch is always fatal. I am sending bulbs to Florida this fall for planting, to a gentleman who even there lost his under similar conditions. I have grown even at Raleigh better Harriah lily bulbs than those I have shown here to-day, these being, as I have said, an exhibit of a failure. Still one learns, even by failure and, in fact, often more than by success.

I have found that while the lily does not tolerate animal manures in contact with the bulbs, the commercial fertilizers can be used as heavily as in the growing of the onion crop, and the same may be said of all the other bulbs, except that the narcissi do not object to well rotted manure, and the hyacinths like it about as well as fertilizers. Finally, on the lily, there is not in my mind the slightest doubt that candidum can be grown here to as great perfection as anywhere, and that on the moist, peaty soils of the eastern section the Harriah and the longiflorum can be grown to as great perfection as elsewhere, and the first who invest in it will be able to establish a remunerative business with these and other bulbs.

All the narcissus family thrive in North Carolina to perfection. The polyanthus and Tazetta section are not tender here when planted at the right time. When

set too early these grow at once, and the tops are subjected afterwards to our coldest weather and will be cut down. Planted in November or December they grow with the advancing springtime and do well.

Several years ago I remarked to a New York dealer that we could grow the Chinese sacred lily as well as the imported ones. "But," said he, "they will not bloom in water like the Chinese, for we had some grown in Bermuda that would not do so. The Chinese seem to have some secret art about it." I did not agree with this statement and asked him to let me have a few Chinese bulbs to take home and test alongside of mine. I placed the Chinese bulbs and mine in water the same day and set them in the greenhouse. Mine were in full bloom before the Chinese had opened a flower, and I sent a photo of the two to New York. Still, at the price these bulbs are imported, I am not sure that there would be much profit in trying to compete with the Chinaman.

The double Von Sion narcissus, which when first received from abroad some years ago made nothing but greenish abortions of flowers, has gradually been improving, till now in the open ground, the blooms are nearly clear from the green and under glass are perfect. The Paper White narcissus, as will be seen from the bulbs shown by me, does exceedingly well here, and this, with all the others of the narcissus family, will do still better in the moist soils of the east.

One of the most uncertain bulbs in this part of the state is the Roman hyacinth. In some seasons, when the winters are cold we can grow them quite well, but in our ordinary mild winters it is hard to grow them well. Late planting is to some extent a preventive of damage, but not always. If cold weather sets in early, and we miss the warm spells in winter, they do exceedingly well, but ordinarily the bulbs are in bloom by Christmas, or sooner, in the open ground, and then the growing tops are exposed to our most severe weather in January and February, and it sometimes gets cold enough to freeze the tops off. The fertile bottom lands of the mountain section, like those along the French Broad, are, I believe, the lands for the Roman hyacinth. Planted there in November they would not show growth until spring, and would have the long cool spring of the mountains to mature their growth. Candidum lilies would do well in the same localities.

The white Italian hyacinth, on the contrary, does finely here, since it never makes the precocious growth of the Roman. I have a few of these as well as the Roman to show. The last winter was unusually favorable to the Roman. Cold weather set in in December and the winter was not characterized by the usual warm spells, which at some times force our fruit trees into bloom in January and February. It was uniformly cold for the latitude and the Romans did not bloom until late February, and ripened fairly well.

Some years ago I tried to grow the Roman hyacinth in the dry sandy soil of Southern Pines. They came through the winter all right, but hot weather set in early and the sandy soil got very warm, so that the bulbs ripened prematurely. When sent north it was found that in forcing they came into bloom some time ahead of the imported bulbs, but the spikes were small. The reason for this was evidently the premature ripening in the hot, sandy soil. A grower of tuberoses in eastern North Carolina, some years ago, tried the Romans. I happened to be at his house in the late spring, and he showed me the bulbs. They were as fine as I ever saw. But he had allowed the tops to decay on the bulbs, before lifting and, as I said to him at the time, I feared he had spoiled them and they would gum. And gum they did and the grower was so discouraged that he never tried any more Romans.

I have never failed to have excellent results with the gladioli. Corms of one season from the seed uniformly bloom. This spring I planted a large lot of offsets from the base of the bulbs of a lot of Groff's Hybrid gladioli. These bullets, averaging the size of peas and smaller, have bloomed to a very large proportion. Still the development in the north in the production of gladioli is such that it is hardly worth while for our people to undertake it.

Cannas, though not properly bulbs any more than the gladioli, are being grown to a very considerable extent, on contract, by the tuberose growers, and the production of Caladium esculentum has rapidly increased with the same growers, and the culture has been found more profitable than that of tuberoses.

Sternbergia lutea, which I also show, will do well if planted at the proper time in August or early September. But the dealers very generally put them in their fall catalogues. Since these and the narcissus bloom in late September and October, before the foliage appears it is easy to see that the bulbs planted in October or later are sure to fail and disappoint the buyer. The sternbergias are hardly all over the country.

The nettes, or Chinese lilies, are very satisfactory here if properly treated. They, like the sternbergias, must be planted in August for the best results. A clump of these allowed to remain in the same place for years in the herbaceous border, will make a very interesting display of bloom in the fall when its only companion, among the bulbs, is the sternbergia, or the colchicum.

One of the plants for which there is some demand but which I have never yet been able to meet, is the spotted-leaved calla. The plant is perfectly hardy with us, and we commonly cut the lily-like potatoes or caladiums and plant them in the fall. There is no particular advantage in the fall planting except to get

them out of the way, and the dealers can easily keep them till spring for sale.

In the same moist soils of the eastern section where the lilies would do best we believe that the ordinary calla would thrive and perhaps compete with *Calliflora*. *Arum sanctum* is also perfectly hardy here, and whatever demand there is for it can be easily met.

But of all the bulbs I have ever grown none has ever given me greater satisfaction or more profitable results than the *Amaryllis Johnsoni*. Being naturally evergreen bulbs, we find that those used for blooming in the greenhouse in winter and planted out in the spring make the finest bulbs in the same length of time. But ordinarily the bulbs left in the ground and protected by a good mulch will grow magnificently. I have bulbs now blooming profusely in the open ground which bloomed freely in the greenhouse last winter. For the small number I had to start with, the increase of stock of *Amaryllis Johnsoni* has been very rapid.

Crinum Americanum makes immense clumps in the old gardens, where it has been undisturbed for a generation, and it may well be grown in a general collection. There are doubtless many others of the hippeastrums, as the section in which the *Johnsoni* belongs is more properly called, which could be grown here with us with much success.

Another point in the possibilities of bulb culture in North Carolina is the production of flowers far more cheaply, in winter, than in the north. The Roman hyacinth, and most of the narcissus varieties of the earlier class, bloom here in the open ground from Christmas to March, often in full bloom in February. But these blooms are liable to sudden injury by the return of frost. But it has been found in my experience that a simple sash, with a mat for the coldest weather, will keep entirely out any frost we have. In such a frame we can bloom any of the early narcissi, the freesias, tulips and I have cut very fair crops of carnations from such a frame, made a little higher than for the bulbs.

The ease and cheapness with which these flowers are produced, and the rapid transportation now at hand, will enable the North Carolina grower to produce the blooms for a price with which the grower in heated houses north cannot compete. The good shape in which flowers are often sent south by commission men in New York shows that freshly cut blooms can be sent in fine condition from here, and that the northern florists may in the future find it to their advantage to use the southern bulbous blooms rather than grow them. But there would here also be the same danger that the grower of bulbs in the south would be competing with his own customers, as have the Bermuda men, and if he is growing bulbs for the north he should not try to grow the flowers in competition. But nevertheless there is certain to arise a trade of this sort in the hands of those whose sole interest is in the cut blooms. In the growing of bulbous flowers in our frames we have an advantage over the former under artificial conditions in the fact that we can have surplus frames, and after the flowers are cut the sashes can be removed for other uses and the bulbs left to fully mature, and thus annually improve instead of being thrown away.

In conclusion I would say that while the cultivation of some of the florists' bulbs is still in the experimental stage here, enough has been shown to prove that with many things there is a wide field for profitable culture in North Carolina. While all the bulbs will not do equally well in one locality there are other sections where some of the bulbs can be grown to perfection.

The bulb that is exciting the greatest interest, the Bermuda lily, will yet be produced commercially in North Carolina. I feel sure. I shall transfer these this fall to the coast plain, and believe that full success will soon be attained there. The humid climate of the low coast region will have a far better effect on the bulbs than the dry air and soil about the city of Raleigh. This characteristic of the coast climate is shown with other things as well as bulbs. In all the coast plain and considerably north of the latitude of the city of Raleigh *Gardenia florida* attains almost a tree-like stature in the open, while in Raleigh it barely survives

the winter when protected by green pine boughs. Still there will not be two degrees difference in the actual temperature. Snow is more common near the coast than in Raleigh and the protective influence of the snow is well known, and the reason for its greater abundance in the coast plain is the greater humidity of the air.

Predicting merely from what has been ascertained, I venture to say that in the future eastern North Carolina will be largely devoted to bulb culture, and in greater variety than now. The culture of Roman hyacinth and candidum lilies will center in the elevated mountain valleys where the conditions of the soil and climate are all favorable to these.

It may be wondered that I have said nothing in regard to the Dutch hyacinths. These will naturally seek the same regions as the Roman, though very good bulbs have been produced in the warmer parts of the state. They have been produced in the north, too, but until we are willing to devote the same intense cultivation to the soil that the Dutch do, we will always be surpassed by them in this particular line. Climate and soil have a great deal to do with the products of a country, but the skill of the cultivator has a great deal more to do with it, for this will render a cultivation a success often under unfavorable natural conditions.

The Almighty has done so much for the soil and climate of eastern North Carolina, and it is so easy for the cultivators of the soil to make a living, that they have not the same incentive to intensive cultivation as those who have had to fight through great natural obstacles to success. With the investment of capital, accompanied by skilled cultivators, the growers of eastern North Carolina will be found quick to learn and adopt improved methods. While I have said little that is perhaps especially encouraging I trust that those who are patriotically interested in developing the industries of our country will take hold of this industry and carry it to success.

The Bulb Situation.

By WM. R. SMITH, WASHINGTON, D. C.

Read before the Society of American Florists at the Asheville convention August 19-21, 1902.

To help find a commercial home for bulbs that can be grown in this country instead of being imported has been in my mind for some years. This is a matter I consider of great importance, and worthy of careful consideration by this society. I have made an effort to obtain information as to the value and quantity of Roman hyacinths, tulips, narcissi and lily of the valley pips, imported annually, but have failed. I addressed a letter to the Secretary of the Treasury, which he promptly referred to the Bureau of Statistics. O. P. Austin, chief of the bureau, furnishes the following table of values of orchids, palms, dracaenas, crotons and azaleas, tulips, hyacinths, narcissi, valley, etc., imported for consumption in the United States, by principal customs districts and all other districts, for the year ending June 30, 1901:

Districts.	Imports.
New York, N. Y.	\$415,101
Boston, Mass.	41,555
Philadelphia, Pa.	137,651
Chicago, Ill.	40,363
All other districts.	129,788

Total.....\$764,458

Mr. Austin, in a letter addressed to me, says that he had requested of the collectors of customs at New York, Philadelphia, Boston and Chicago any further information they could give, but owing to the classification they could not furnish separate information on the articles asked for. We beg here to acknowledge the kind courtesies of Mr. Austin.

Mr. Powers, chief statistician of the census office, also kindly endeavored to secure information for me on the same subject from leading firms in the various cities, but for the same reasons, and others, he failed to elicit reliable information. Enough, however, was obtained to make it an object that those bulbs of easy culture, not requiring extra skilled labor, can be grown successfully somewhere in the United States, and the quantity used can be doubled, and made an object of interest.

There are numerous other bulbs imported that can, and will before long, be

grown by enthusiastic experts in this country. We have the advantage of cheap lands as against cheap labor. Already gladioli, freesias and tuberose are exported. Of the latter the large output of \$45,000 is not all for florists' purposes, I am informed. Grease and glass, at Grasse, near Nice, consume an immense quantity of the tuberose flowers, and a monopoly, from natural causes, secures this, and will secure others, as exports. An interesting and instructive article on this subject can be found in Appleton's "Popular Scientific Monthly," of November, 1897. In the same article Kruger is stated to have discovered an artificial violet perfume in the iris root.

Whether the *Lilium longiflorum*, and its variety *Harrisii*, can be grown for market purposes in the state of Washington and in the state of Texas, as intelligent correspondents seem to think, is still an open question. With 6,159 intelligent heads of commercial florists' establishments scattered over the whole land, representing, as they do, an investment of \$50,708,671, urging them to vigilant care for their best interests, it is not to be doubted that a commercial home, in some of the various states and territories, will be found for those articles, so valuable in developing the aesthetic soul of the American people.

The discussion that will follow to-day, and in the trade papers on this subject will soon disseminate all useful and interesting information, and will thus add another wreath to the good old S. A. F., which has, in my opinion, been an important factor in improving our profession in all its various co-relations.

The following extract from an advance sheet, kindly furnished by L. G. Powers, agricultural division census office, shows the magnitude of the commercial florists' business: "The annual income from cut flowers is estimated at \$12,000,000 to \$14,000,000. Upon this basis the sale of roses averages \$6,000,000 annually with an annual production of 100,000,000. The violet is third, with sales of \$750,000 and an annual production of 75,000,000. The chrysanthemum sales equal \$500,000, the season for the sale of this flower being short." In another part of the report it is stated, the total product was \$18,422,522, and the retail value would be \$30,000,000, since between the grower and consumer there is sufficient expense and waste to nearly double the value.

A Chicago Dinner Decoration.

The illustration on page 143 is from a flashlight photograph of a decoration at the Chicago Club, by Walter Kreitling & Co., Chicago. The table is set for eighteen and the decoration is one of the most elaborate of the summer where so few were served. The flowers on the table were fancy gladioli and around the fountain American Beauties were used. *Adiantum* conceals the metallic parts of the fountain. The chandelier was removed to make place for the large canopy over the table, which was a wire frame covered with ferns. The flowers used here were light asters. There were not fewer than fifty electric lights on the canopy and the effect was very pleasing.

A New Yellow Calla.

The plant shown on page 147 was awarded a medal on July 5, by the Massachusetts Horticultural Society, and this fact induced the writer to pay a visit to the raiser, Joseph Taibly, of Wellesley, Mass., to see it as it grows in his field in quantity. The sight was a revelation of which the illustration does not convey an adequate idea.

This plant is the result of a cross between *Richardia Elliottiana* and *R. albo-maculata*. Out of the batch of seedlings one plant showed special merit and was propagated by offsets and seed and it has been proved that the type is well fixed, for the seedlings prove to be perfectly true to the original. The color is a beautiful soft primrose yellow, with



Photo by Chas. Poppelbaum.

BALL PLAYERS AT CHICAGO FLORISTS' CLUB PICNIC, AUGUST 12.

flowers equal in size to those of *R. Elliottiana*, borne on stout stems, the leaves being beautifully spotted with pure white.

Mr. Tailby's method of cultivation is unique and should make this one of the most valuable summer decorative plants we have, as they are never inside a greenhouse. On May 26 the bulbs were set out in the open ground and were then perfectly dormant, and in less than eight weeks the growth of leaves and flowers was most remarkable, many single bulbs having four expanded blooms with many more to follow.

The method of maturing the bulbs in fall is simple, as they are harvested like potatoes, the tops being mown off with the scythe, the bulbs lifted and perfectly ripened. After this they are kept in a cellar and re-set in May. *R. albo-maculata* has evidently imparted great vigor to the plant as it is exceedingly vigorous as compared with *R. Elliottiana* planted among it for comparison, and there is no doubt that Mr. Tailby has a novelty of sterling merit that will be waited for by those who have been privileged to see it as it is grown by the raiser.

E. O. ORPET.

J. H. Mitchell.

J. H. Mitchell, the superintendent for the Salt Lake Floral Company, Salt Lake City, Utah, whose portrait appears on page 145, is one of the men whose name is inseparable from the brief history of the upbuilding of floriculture in the west. Born in Noble county, Ohio, in 1870, he began his career as a gardener under his father, who was both farmer and gardener. His first position as foreman was at the Juanita Greenhouses, Crestline, Ohio, under Nicholas Amos, and to him, more than any one else, Mr. Mitchell says he owes whatever success he may have achieved as a florist. In 1893 he went to Montana as manager for Mrs. D. J. Knox, the pioneer florist of Butte. From 1896 to 1898 he was engaged in business for himself. In 1899 he accepted the position of manager of Columbia Gardens for the street railway company. At that time there were not a half dozen people in Butte who believed lawns and flower beds possible to that city. Sulphur smoke from the ore reduction works had long since killed all vegetation where the high altitude made it impossible to grow anything but the hardiest plants. In two years Mr. Mitchell and his assistants removed all the old buildings from the gardens, erected handsome new ones,

built a modern greenhouse and had lawns and flower beds that any city might be proud of. They found, however, that no month was free from frost. That the park is appreciated by the citizens of Butte is attested by the liberal patronage. During the season of four months over 400,000 people visited the gardens, but it is only justice to add that the Columbia Gardens is the only breathing place Butte has. It was made possible by the liberality of Senator W. A. Clark and the enterprise of J. R. Wharton, manager of the street railway. In the spring of 1901 Mr. Mitchell resigned his position at the gardens to take the position he now holds. During the past year he has erected and stocked over 42,000 square feet of glass and is now putting up an addition that will give them, when completed, 70,000 square feet of glass. The concern is backed by the Clark interests at Butte and, under Mr. Mitchell's direction, has already assumed a leading place in the flower business of the west.

C. W. S.

Chicago.

SHIPPING BUSINESS GOOD AT THE ENDS OF THE WEEK.—FEW WARM DAYS BRING IN AN UNWIELDY ROSE CUT.—QUALITIES IMPROVING BUT STOCK ACCUMULATES.—CARNATIONS MORE PLENTIFUL.—GOOD PARTY FOR CONVENTION.

The week's business opened with a very good shipping day. Local trade does not yet show the stimulus of approaching autumn but now and then, particularly on Mondays, the out-of-town buyers need a great deal of stock. But Tuesday has come to be known as the dullest day of the week, and it was so for a certainty during the period just past. The warm weather of the few days previous brought in a very large cut from the young rose plants, and on Tuesday there was no outlet whatever. Since then there has been a gradual improvement and the market has assumed a better tone. The young rose crop came on all of a sudden, but the qualities are very good for so early in the season. Of course stems are not long, nor heavy, but the buds are of excellent substance and color, with no mildew on the foliage. Beauties are undoubtedly the best selling item in the list, also best in quality but *Mme. Chatenay* goes well, and Peter Reinberg has a big cut coming on, having planted it very largely this year. He also planted several thousands of *Sunrise*, which promises to take well as a novelty. *La France* is also a goodseller

at present, and *Liberty* is doing nicely where cut from plants grown for summer bloom. The week has seen increased supplies of carnations, the field plants of additional growers having come into crop, and others are already cutting a few from early planted houses, however it may affect the general result of their season. The aster crop shows no diminution and there is some very good stock in market, too. *Gladioli* are not coming in nearly so heavily as a few weeks ago, possibly because the growers have realized practically nothing at all on the ordinary run of material. It has taken a good *gladiolus* to find a fair buyer this season. The *arratum* lilies, too, seem to be on the wane, but water lilies are coming in more heavily than heretofore this season. There is a general impression that the cool weather will cause the season to open earlier than usual this year and that increased activity may be looked for within the next week or two. The fashionable retailers are not yet doing anything, but the smaller dealers, in the neighborhoods where summer outings are not in vogue, have found this a very good summer and are looking for big things this fall.

Albert Fuchs, Fanny Fuchs and John Hrudka, creditors of Walter Retzer, on August 18 petitioned to have him declared a bankrupt. The total liabilities, according to the creditors, are about \$20,000, while they assert the assets amount to about \$5,000. In April, 1900, Albert Fuchs sold his business to Mr. Retzer. His claim is \$13,500. Henry L. Wilson was appointed receiver with \$8,000 bonds. It is understood that he will continue the business under Mr. Retzer's management pending the action of the court.

The Chicago party to the convention numbered thirty-five, re-enforced by a number from the north and west. They filled two sleepers nicely and had a very enjoyable trip. Philip J. Foley, of the Foley Manufacturing Company, was the heavy-weight of the party. He weighs 295 pounds.

Weber Brothers are drying off their plants and resting them up for a while, so that they are cutting very little, but they expect a fine crop in early fall.

J. A. Bndlong's place is in very fine shape, the roses never having looked better. They are making good progress on their new houses for carnations.

Kennicotts have fitted their office windows with the Luxfer prisms and it is wonderful the light they throw into the place.

Henry Wiator and family left on Wednesday for a visit with relatives at Fond du Lac, Wisconsin.

Peter Reinberg has built six blocks of cement walks along the Robey street ends of his greenhouses.

Miss Grace Todd, of Amling's, has returned from her vacation at Wakeman, Ohio.

Henry Muno celebrated a birthday anniversary on Tuesday.

Walter Kreitling is on a trip to the Wisconsin lake resorts.

Wm. N. Campbell, of Vaughan's, leaves to-day for New York.

Visitors: O. Will, Minneapolis; J. D. Carmody, Evansville, Ind.; H. Glenn Fleming, Fairmount, W. Va.; C. L. Brunson, Paducah, Ky.; Wm. H. Englehart, Memphis, Tenn.; Thomas Chapman, Denver; I. N. Kramer, Cedar Rapids; A. S. Swanson, St. Paul; H. G. Smith, Detroit; Arthur Newell, Kansas City; enroute home from England.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements on all except cover pages.
10 Cents a Line, Argue; \$1.00 per inch.
Cash with Order.

No Special Position Guaranteed.

Discounts are allowed, only on consecutive inser-
tions, as follows—6 times, 5 per cent; 13 times,
10 per cent; 26 times, 20 per cent;
52 times, 30 per cent.

Cover space sold only on yearly contract at
\$1.00 per inch, net, in the case of the two
front pages, regular discounts apply-
ing only to the back pages.

The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines only.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

VERY little butted glass has been laid
on this season's greenhouses.

NEPHROLEPIS PIERSONI received the
first gold medal ever awarded by the S.
A. F.

THE present plans are that fifty car
loads of fruit will go into cold storage to
keep up the displays at the St. Louis
exposition.

PARTICULARS of this year's convention
of the Canadian Horticultural Association
appeared first in the AMERICAN
FLORIST and we again wish to remind
our readers that this event will take
place at Hamilton, Ont., September 3-4
inclusive.

Convention Hospitalities.

At Asheville Friday 350 participated
in the excursions arranged for the day,
the afternoon being given to a tour of the
grounds of the Vanderbilt estate. The
weather was perfect.

Florists' Hail Association.

The Florists' Hail Association met at
Asheville, August 21. The report of the
past years' business will be found in this
issue. Officers elected were: President,
J. C. Vaughan; vice-president, E. G. Hill;
secretary, J. G. Esler; treasurer, A. M.
Herr; directors, H. H. Ritter and Geo. M.
Kellogg. It was ordered that the
thirteenth assessment be levied March 1,
1903. The directors made a proposition
to amend section one of article seven of
the by-laws so that members will be given
fifteen days to file claims, instead of five
days, and sixty days in which to file proof
of loss with the secretary, instead of ten
days. The directors also recommended
a new section as follows: A failure to
file proof with the secretary within sixty
days from date of loss shall release the
association from all liability.

Stem Rot of Roses.

ED. AM. FLORIST:—Quite a number of
our Bride and Bridesmaid roses are dying
off with the stem rot. Can you give
cause and remedy? Samples have been
sent you under a separate cover. P.

The sample plant received has been
girdled just above the roots by a grub, I
presume the large white fellow with a
brown head, which is the larva of the
chafer or commonly called the June bug.
If the grower will watch his plants care-
fully and immediately he sees that the
young foliage shows the least sign of
wilting on any plant, stir up the soil all
round the plant, I think he will find the fel-

low that is doing the damage. I need not
here tell him what to do with him when
caught. This pest is more troublesome
some seasons than others. It is usually
brought into the greenhouse in the com-
post and is much more likely to be in the
soil if it has been collected from anywhere
in the neighborhood of trees. There is
no known remedy to exterminate the
pests other than to catch and kill them.
A little careful study of the "critters"
habits when working on the plants will
enable anyone to quickly detect their
presence and also the best way to hunt
and catch them. As a precaution against
introducing them into the genial tem-
perature of the greenhouse studiously
avoid collecting any soil anywhere in the
proximity of trees. JOHN N. MAY.

Canadian Horticultural Association.

The fifth annual convention of the
Canadian Horticultural Association,
which will be held at Hamilton, Ont., on
Wednesday and Thursday, September 3
and 4, will show a marked advance
over any of its predecessors. From its
near proximity to Buffalo and other
American cities there is likely to be a
good sprinkling of those who have not
found it convenient to attend the S. A. F.
meeting at Asheville. The flower fete
arranged by the Hamilton Horticultural
Society and Gardeners' and Florists' Club
will be an innovation which cannot but
have a beneficial influence. The trade
exhibit, too, under the management of
C. M. Webster, is an assured success.
Already space has been applied for by a
large number of firms. Customs arrange-
ments for the free entry of goods for ex-
hibition have been made.

The programme has been arranged to
cover a range of subjects that will give
ample scope for instructive discussion.
Following the mayor's address of wel-
come, the president's address and miscel-
laneous reports will be an address on
"The Hardy Perennial Border," by
Andrew Alexander, Hamilton; "The
Relation of the Professional Florist to
the Local Horticultural Societies," by
Prof. Hunt, Guelph; "Winter Flowering
Plants for Private Greenhouses," by C.
A. Smith, Montreal; "Heating Green-
houses," by an engineer with Gurney &
Company, Toronto; "Advantages of
Cold Storage of Plants to Gardeners and
Florists," by Roderick Cameron, Niagara;
"Latest Facts About Carnations," by
Mr. Webb, Sr., Brampton; "Summer
Flowers for Florists," Prof. Hunt, Guelph;
"Latest Facts About Roses," Edward
Dale, Brampton.

The hospitality of the Hamilton mem-
bers is well known, and visitors are
assured of a very pleasant time. One of
the features will be a trolley ride through
the Niagara fruit district to Winona and
Grimsby; another to the mountain, the
view from which is one of the best in
Canada. From there can be seen the
Niagara fruit district lying in the valley,
with Lake Ontario on the one side, and
the mountain range on the other, the
numerous steam and electric roads wind-
ing in and out, and at the foot of the
mountain lies the city of Hamilton bor-
dered by the Burlington bay.

Worth Its Weight in Gold.

AM. FLORIST Co.:—Enclosed please find
\$1 for which renew my subscription.
Your esteemed paper is second to none,
and worth its weight in gold to any
florist. I could not get along without it.
HENRY MUELLER.

Chrysanthemum Society of America.

The Chrysanthemum Society of Amer-
ica held a meeting at Asheville, Thursday,
August 21, President Herrington in the
chair and M. Barker acting as secretary
pro tem. Among others present were C.
H. Hune, F. R. Pierson, J. C. Vaughan,
Jas. Hartshorne, E. G. Hill, Alex. Wallace
and E. A. Seidewitz. The annual meet-
ing will be held in November, as provided
in the by-laws. W. N. Rudd, M. Barker
and Emil Buettner were appointed a
committee to arrange for the convention
in connection with the exhibition at Chi-
cago. It was resolved that a sum not to
exceed \$150 be expended at the discretion
of the executive committee for expressage
in procuring adequate exhibits of chrys-
anthemum plants.

Report on the Trade Exhibit.

The judges of the trade exhibition at
Asheville were:

Class A, plants: Harry Papworth,
Wm. Scott, Lewis Ullrich.

Class B, cut blooms: Louis Reuter,
Geo. Wittbold, W. Critchell.

Class C, boilers: H. A. Hart, Jas.
Hartshorne, Geo. M. Kellogg.

Class D, greenhouse appliances: J. S.
Wilson, Jas. Taylor, C. H. Hune.

Class E, supplies: E. J. Bush, John
Westcott, Wm. Lindsay.

Class F, bulbs: W. F. Gude, J. T. Tem-
ple, J. Schultz.

Class G, miscellaneous: Richard Vin-
cent, J. L. Dillon, J. M. Lamb.

Following is the report of the judges:

Henry A. Dreer, for collection of palms,
decorative plants and small ferns for jar-
dinieres, especially good araucarias, cer-
tificate of merit.

A. C. Oelschig, collection of ficuses, well
grown, including the variegated type,
highly commended.

P. J. Berckmans Co., collection of conif-
ers, evergreens and well grown camel-
lias, highly commended.

Pinehurst Nurseries, group of hardy
shrubs, highly mentioned.

Charles D. Ball, collection of excellently
grown palms and other decorative plants,
well worthy a certificate of merit.

Henry Eichholz, collection of zonale
geraniums, honorable mention.

L. Ball, collection palms and decorative
plants, highly commended.

Mrs. H. Kheder, collection of sarracenia
and dionaea, honorable mention.

James M. Lamb, collection sarracenia,
dionaeas and native orchids, honorable
mention.

J. A. Peterson, Pandanus Veitchii and
Begonia Gloire de Lorraine, certificate of
merit.

Geo. Wittbold Company, collection of
palms and decorative plants, honorable
mention.

Robert Craig & Son, decorative plants,
including full display of crotons, certifi-
cate of merit.

Siebrecht & Son, decorative plants,
including a well grown *Stevensonia*
grandifolia and *Ananas sativus* variegatus,
certificate of merit.

Jessamine Gardens, collection, honor-
able mention.

Clucas & Boddington, unestablished
orchids, *Oncidium varicosum* Rogersii,
also three varieties of Lorraine begonias,
honorable mention.

Robt. Bottomley, magnificent collec-
tion of kentias, many specimens the finest
the committee has ever seen and which
have been a grand feature in decorations,
society's silver medal.

Wm. R. Smith, National Botanic Garden, collection of new and rare plants among which was a fine specimen of *Pandanus Veitchii*, *Platyceerium Hillii*, *Maranta Smaragdina* and a fine collection of well pitched nepenthes, society's silver medal.

L. H. Foster, fine specimen *Nephrolepis Anna Foster*, certificate of merit.

F. R. Pierson Co., group of *Nephrolepis Piersoni*, the committee considered this the finest decorative fern introduced in recent years and strongly recommended it be awarded a gold medal.

Certificate of merit to Arthur Cowee for three sections of gladioli of the latest introduction of Mr. Groff, also for the Meadowvale mixture of gladioli.

The committee recommend a certificate of merit to Lord & Burnham for round steam boiler, on account of convenience of handling, all parts accessible for cleaning; large fire box in proportion to grate surface; cast in one piece from base to top, thus doing away with the possibility of leaking joints.

Certificate of merit awarded to H. Thaden for Thaden's wire tendril for roses and carnations.

Kramer & Son, non-freezable galvanized iron valley gutter and drip conductor; Kramer's patent adjustable tubular greenhouse construction, also Kramer's wire pot hangers, certificate of merit.

Detroit Flower Pot Company, ingenious device for manufacture of flower pots.

Anders Rasmussen, new self-balancing cast iron ventilator.

Honorable mention awarded to the following exhibits: J. L. Dillon, for composition for gutters and pots; zinc caps and system of subirrigation. Central Foundry Company, cast iron post and greenhouse putty. Quaker City Machine Works, Evans' Challenge ventilating apparatus and iron pipe hangers and brackets. George M. Garland, iron gutter.

Other notable exhibits were: Wm. H. Ernst, flower pots; W. J. Cowee, wired toothpicks; H. M. Altick, pot labels; J. G. & A. Esler, rubber hose; Stump & Walter, hose, thermometers, syringes, putty bulbs, etc.; Siebrecht & Son, patent greenhouse shading device; H. Beaulieu, hotbed sash and garden tools.

Brooks Sisters, highly commended for large and interesting exhibit of seeds; Jassamine Gardens, highly commended for bulbs of *Crinum Kirkii*, which were very fine; Vaughan's Seed Store, for large assortment of seasonable bulbs, including *Lilium longiflorum* from cold storage; Segers Bros., especially fine assortment of tulip and hyacinth bulbs; H. A. Dreer, *Lilium Harrisii*, also Roman hyacinths; Siebrecht & Son, *Lilium Harrisii*; Stump & Walter, very fine display of seasonable bulbs; Clucas & Boddington, fine lot of *Lilium longiflorum* from cold storage.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By AI rose grower. Can take charge; single; best references. J. K., care American Florist.

SITUATION WANTED—In first-class store; 7 years' experience; good salesman and designer. Best of references. Address J. E. ALCOTT, 436 Union St., Hudson, N. Y.

SITUATION WANTED—By gardener and florist, either private or commercial place; aged 34, single; 20 years' experience in all branches. Address O. P., care American Florist.

SITUATION WANTED—By capable florist and gardener; age 27, married; 11 years' experience, last six years in park work; in charge at present; good references. Address B. S., care American Florist.

SITUATION WANTED—By September 1; German, age 28 years; single, 11 years' experience with palms, ferns, forcing stock, bedding plants and cut flowers. Private or commercial. C. T., care American Florist.

SITUATION WANTED—In central or western states by florist and gardener, on private or commercial place; 16 years' experience; hustler; age 31; good references; willing. Address C. M., care American Florist.

SITUATION WANTED—About Sept. 1st, by good grower of plants and cut flowers, as foreman or grower in up-to-date retail business; 18 years' experience. All references. Address L., care Schiepan, 3455 State St., Chicago.

SITUATION WANTED—Steady position by a good, sober, reliable man; English; 13 years in America; experienced in growing cut flowers, bedding plants, etc. Address with offers. Florist, General Delivery, Albany, N. Y.

SITUATION WANTED—As foreman in commercial greenhouses, or charge of private place, by Sept. 15, by a thoroughly competent, all-around gardener and florist; 48 years of age; German; married. A. W., care American Florist.

SITUATION WANTED—By experienced florist as working foreman or grower of first-class stock. Successful propagator and grower of roses, carnations and general stock. Permanent place with fair wages looked for. Address MICHIGAN, care American Florist.

SITUATION WANTED—By experienced and practical gardener and florist to take full charge of estate, private or public institution. A producer of crops in dry or wet seasons that counts the "dollars" by the thousands instead of cents. G. A., American Florist.

WANTED AT ONCE—A greenhouse assistant. Address E. M. HOLT, Butler, Pa.

WANTED—Foreman for large cut flower growing establishment; references required. A. B., care American Florist.

WANTED—Competent storeman. Must be sober and reliable. Reference required. CENTRAL GREENHOUSES, Sandusky, O.

WANTED AT ONCE—Two good all-around assistants. Good wages. Address CARL HAGENBLUGER, Box 38, W. Mentor, O.

WANTED AT ONCE—Foreman. Good grower of cut flowers and plants. Good wages to right party. CARL HAGENBLUGER, Box 38, West Mentor, O.

WANTED—Man for greenhouse work; carnations, chrysanthemums, etc. Wages \$20 per week. PAUL GAERTNER, West Tenth Ave., near Western Ave., Rogers Park, Ill.

WANTED—An all-around grower of palms, ferns and miscellaneous stock; must know something about decorating. Write or call on E. ASMUS & Co., 186 Evanston Ave., Chicago.

WANTED—A single all-around greenhouse man, one who understands growing ferns, palms, carnations, etc. Address J. M. GASSER Co., Euclid Ave., Cleveland, O.

WANTED—An all-around man to take charge of place 6,000 feet glass, grow roses, carnations, etc. State age, experience and wages clear of board etc.; references expected. Address J. C. STEINHAUSER, Pittsburg, Kan.

WANTED—Propagator of roses, carnations, etc., must be thoroughly first-class; no others need apply. Also a few growers of roses and carnations for sections. Good wages and steady work. LAKEVIEW ROSE GARDENS, Jamestown, N. Y.

WANTED—An all-around grower of decorative plants, roses, carnations, chrysanthemums and miscellaneous stock; must be capable of taking charge. Good place for the right man. Address C. H., care of American Florist.

WANTED AT ONCE—A thoroughly practical foreman, for medium sized place, to grow general collection of plants and cut flowers for retail store trade. State wages; send references of recent date in first letter, to Mrs. S. MAVERICK, 305 10th St., San Antonio, Tex.

WANTED—A working foreman to take charge of 22,000 square feet of glass, where first-class roses and carnations are grown, also one house of pomsettia; also one assistant. State age and wages expect d, with board and washing. Apply to JOHN L. WYLAND, De Haven, Pa.

FOR SALE—Well established greenhouse business, 12,000 feet of glass; steam heat. 100 miles from Chicago, INDIANA. American Florist.

FOR SALE—Twenty boxes 6x16 double strength B glass, at \$400 per box, 1, 0, 6 Ypsilanti, Mich. Boxes never opened. FRANK A. NORTH, Ypsilanti, Mich.

FOR SALE—First-class florist business; best location in city of 100,000; well established no greenhouse; sickness; must change climate. Address STORE, care American Florist.

FOR SALE—Four greenhouses, 8,000 square feet of glass, well stocked, in best condition, on fine located Chicago property, worth \$2,000; new Kro shell boiler, two carloads of block coal, new dwelling house, one horse, four wagons, etc. Xmas specialties will bring \$1,000. Price \$6,000; part on time. Address B. K., care American Florist.

Wanted EXPERIENCED TRAVELER

to sell European Plants, Bulbs, Seeds, etc., to Wholesale Seedsmen, Florists and Nurserymen. Must be of gentlemanly appearance, healthy, sober and energetic. Steady position. State references, former occupation and salary wanted. Address confidentially.

AUG. RHOTERT, 26 Barclay St., New York.

WANTED....

A competent man to take charge of our catalogue department. Must be experienced in compiling catalogues and conversant with all branches of the business. Apply with references to

L. L. MAY & CO., Nurserymen, Florists and Seedsmen, St. Paul.

Wanted A First-Class Landscape Gardener.

None but reliable parties need apply. Also a good salesman and design maker wanted with references. Prices on decorative plants for my new store and conservatory. The conservatory is 25x75 feet and 20 feet high. Address

CHARLES BROWN, 304 Brown Ave., Canton, O.

For Rent or Sale Greenhouse

(about 7,000 feet of glass), dwelling and stable, Evanston, Ill., two blocks from C & N W. station. Good exhibit shed trade direct from greenhouse. Rent reasonable. Address

1127 CHURCH ST., EVANSTON, ILL.

Wanted

An energetic ambitious young man experienced in Hardy Plant and Shrub Nursery. Must be capable of taking charge of packing department. Address, stating wages desired,

J. W. ELLIOTT, Pittsburg, Pa.

If you want to get the want you want to get, you want to get your want ad into the

AMERICAN FLORIST

Try it now.

Every advertisement represents a genuine want. It pays to answer them.

Cleveland.

TRADE AVERAGES AHEAD OF LAST SUMMER.—ROSES FROM YOUNG STOCK.—OUTDOOR FLOWERS SERVE FOR WINDOW DECORATION.—PLANTING NEARLY FINISHED.—NOTES.

Business conditions are about as good as can be expected at this season of the year. So far the summer trade will average up better than that of the same period of last year. Stock in general is improving in quality, although quantity is limited. Some very good Brides and Bridesmaids from young stock are coming in, and while the stems are short the flowers are fairly good. Some good Beauties are coming in from the Essex Greenhouses, cut from old stock replanted. This firm is also cutting some good Bridesmaids from old stock replanted. Indoor asters are to be had in quantity and the quality is good. Great quantities of hardy phloxes, rudbeckias, hydrangeas and other outdoor flowers are received by the retailers daily. While there is not much demand for such stuff, yet they serve the purpose of making a good window display.

The J. M. Gasser Company has completed the new range and the last of the rose stock has been benched. Two new eighty horse-power boilers are in position. The new 100-foot stack is considered one of the best in Cleveland. They have completed benching their carnations and 45,000 chrysanthemums are in good condition. All the early varieties have their buds well advanced.

Carnation planting is about over. Those fortunate enough to have the stock in well drained, sandy soil reaped a rich reward in having extra fine plants for benching. This has been an ideal season for growing where conditions were favorable.

The F. R. Williams Company has completed remodeling its range. Stock has been all planted and is very promising. This firm had great success last year with Bride and Bridesmaid.

Harry B. Jones, of the J. M. Gasser Company, has returned from his vacation.

Visitors: J. A. Peterson, Cincinnati; Walter Mott, Jamestown, N. Y.

ECHO.

Utica, N. Y.

SYRACUSE ENTERTAINED AT A CLAM BAKE.—BOWLING AND BASE BALL.

The Florists' Club of Utica entertained the florists of Syracuse on Monday, August 11, with a clam bake at Well's Grove and a good time was experienced by both visited and visitors. After the bake there was a base ball game, which was won by the Utica team. "Joe" Beard, of the Syracuse team, knocked the ball over the fence. In the evening there was a bowling contest, which was won by Syracuse. The score was 1147 to 1123. The party from Syracuse returned home early Tuesday morning.

NARRAGANSETT PIER, R. I.—Peter S. Byrnes, of Wickford, has opened a flower store in the Hazard block.

PARKERSBURG, W. VA.—J. W. Dudley is beginning to cut from his new house of American Beauties, which is in good shape for fall. Mr. Dudley is sheriff of Wood county.

OSKALOOSA, IA.—Work is progressing satisfactorily on the rebuilding of the Kemble greenhouses, but it will require some tall hustling to get ready for the opening of the season.

McKELLAR & WINTERSON CO.

Supply Everything Used by Florists, Nurserymen, Gardeners, Seedsmen..... Cemeteries, Parks, Etc.

HEADQUARTERS on CUT-FLOWERS

45-47-49 Wabash Ave.

Telephone Main 1120. ...CHICAGO

E. H. Hunt,

WHOLESALE.....

Cut Flowers

THE "OLD RELIABLE."

76 Wabash Ave., CHICAGO.

The F. R. WILLIAMS CO. WHOLESALE FLORISTS.

Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.

Telephone Connections.

CLEVELAND, OHIO.

Wholesale Flower Markets

MILWAUKEE, Aug. 21.

Roses, Beauty, med per doz.	1.00@1.50
" " short	.50@ .75
" Liberty	6.0 @ 8.00
" Bride, Bridesmaid	2.0 @ 4.00
" Meteor	2.0 @ 4.10
" Golden Gate	2.0 @ 4.00
" Perle	2.0 @ 4.00
Carnations	1.00 @ 2.00
Sweet peas	.15
Adiantum	.75 @ 1.00
Smilax	12.00 @ 15.00
Asparagus	65.00
Common ferns	.25

PITTSBURG, Aug. 21.

Roses, Beauty, specials	15.00 @ 20.00
" " extras	10.00 @ 12.00
" " No. 1	4.00 @ 6.00
" " No. 2	2.00
" Bride, Bridesmaid	1.00 @ 4.00
" Meteor	1.00 @ 4.00
Carnations	.50 @ 1.50
Asters	.75 @ 1.50
Lily of the valley	2.00 @ 3.00
Harrisii lilies	5.00 @ 10.00
G adiolli	1.00 @ 3.00
Sweet peas	.2 @ .50
Smilax	8.00 @ 10.00
Adiantum	.75 @ 1.00
Asparagus	.35 00 @ 40.00

CINCINNATI, Aug. 21.

Roses, Beauty	10.00 @ 20.00
" Bride	2.00 @ 3.00
" Bridesmaid	2.00 @ 3.00
" Meteor	2.0 @ 3.00
" La France	2.0 @ 3.00
" Kaiserin	2.0 @ 3.00
Carnations	.75 @ 1.00
Asters	.75 @ 2.00
Gl-dioli	3.00
Lilies album and ruhrum	4.00
Lily of the valley	4.00
Asparagus	50.00
Smilax	12.00 @ 15.00
Ad antum	1.00
Common ferns	.15

ST. LOUIS, Aug. 21.

Roses, Beauty, medium stem	10.00 @ 18.00
" Beauty, short stem	3.00 @ 8.00
" Bride, Bridesmaid	2.00 @ 5.00
" Golden Gate	2.0 @ 5.00
Carnations	.75 @ 1.50
Asters	.75 @ 1.50
Gladioli, Tuberoses	3.0 @ 4.00
Smilax	12.5 @ 15.00
Asparagus Sprengeri	1.50
" Pl mosus	.75 @ 1.00

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Pittsburg, Pa.

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ARE getting into pretty fine shape again, the quality improving every day and the quantity increasing. Carnations, too, are more plentiful and we are out for orders. Don't overlook our Beauties, very good for so early in the season. Get your orders in early.

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BEAUTIES.	
24-inch stems, per doz.	\$2.00
20 " " "	1.50
16 " " "	1.00
12 " " "	.75
6 to 8-in. " per 100	\$4.00 5.00
Per 100	
Brides.....	\$2.00 4.00
Maids.....	2.00 1.00
Meteors.....	2.00 4.00
Gates.....	2.00 4.00
Carnations.....	1.00 1.50
Tuberose, per doz. stalks	.90-.75
Auratum, per doz., 1.00	1.25
Gladiolus, per doz., 25c to 35c	
Asters.....	.75 2.00
Valley, select.....	4.00
Asparagus plumosus, per str.	.50
" Sprengerii.....	2.00 4.00
Galax.....	1.25; .15
Ferns.....per 1000	\$1.00 .15
Adiantum.....	.75 1.00
Smilax.....per doz., 1.00	1.25
Prices subject to change without notice	

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CUT FLOWERS

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WIETOR BROS.

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Business Methods

are right you can make a profit on an advertisement here.

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37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER OF

CUT FLOWERS

Wholesale Flower Markets

CHICAGO, Aug. 22.

Roses, Beauty, 24-inch stems	2.00
" " " "	1.50
" " 15 " "	1.00
" " 12 " "	.75
" " 6 to 8 " " per 100	4.00@ 5.00
" Bride, Bridesmaid.....	2.00@ 4.00
" Meteor.....	2.00@ 4.00
" Perle.....	2.00@ 4.00
" Golden Gate.....	2.00@ 4.00
Carrations.....	1.00@ 2.00
Asters.....	1.00@ 2.00
Gladioli.....	2.00@ 3.00
Lily of the valley.....	4.00
Auratum, per doz., 1.00@1.25	
Tuberose.....	3.00@ 6.00
Asparagus, per string, .50	
Adiantum.....	.75@ 1.00
Common ferns, per 1000, 1.00	.15
Galax leaves, per 1000, 1.25	.15
Smilax, per dozen, 1.25@1.50	

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'Phone Central 3155.CHICAGO.

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FANCY OR DAGGER FERNS
FIRST QUALITY 50 CENTS PER 1000.
Bronze or Green Galax \$1.00 PER 1000.
LAUREL FESTOONING, just the thing for summer decorations, only 4, 5 and 6c per yd. Discount on ferns and laurel in large quantities.



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J. L. BANNER & CO., Montezuma, N. C.

GALAX Bronze or green, 75c per 1000, in 2 1/2' lots or over; single 100, \$1.00. Fern, Dagger \$1.50 per 1000. Leucothoe Sprays, bronze and green, assorted sizes, \$1 per 100. Green sheet moss \$2.50 per bbl. bag.

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Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples.....

REPRO OF THIS LEAF, POSTPAID, \$1.25.

American Florist Co.,

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Wholesale Flower Markets

BOSTON, Aug. 20.

Roses, Beauty, extra.....	10.00@20.00
" " medium.....	5.00@ 8.00
" " curls.....	.50@ 2.00
Queen of Edgely.....	10.00@16.00
Bride Bridesmaid, Meteor.....	5.00@ 2.00
extra.....	4.00@ 6.00
Kaiserin, Carrot.....	3.00@ 6.00
Sweet peas.....	.05@ .10
Carnations.....	.25@ 1.00
Asters.....	.10@ 1.00
Gladioli.....	2.00@ 3.00
Lily of the valley.....	2.00@ 4.00
Lilies.....	3.00@ 5.00
Adiantum.....	.75@ 1.00
Asparagus.....	.50
Smilax.....	12.50@18.00

PHILADELPHIA, Aug. 20.

Roses, Tea.....	2.00@ 4.00
" " extra.....	4.00@ 6.00
Beauty, extra.....	15.00@ 20.00
" " firsts.....	8.00@12.00
Queen of Edgely, extra.....	20.00@25.00
" " firsts.....	10.00@15.00
Carnations.....	5.00@ 1.50
Lily of the valley.....	3.00@ 4.00
Asparagus.....	15.00@35.00
Smilax.....	10.00@ 5.00

BUFFALO, Aug. 21.

Roses, Beauty.....	6.00@25.00
" " Bride, Bridesmaid, Meteor.....	3.00@ 6.00
Carnations.....	1.50@ 2.00
Sweet peas.....	.10@ .35
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.10

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Roses, Carnations and all kinds of Seasonable Flowers in stock.

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Fair dealing and prompt returns guaranteed.
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Buy and Sell... FLOWERS on Closs Margin.

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N. F. MCCARTHY & CO.

Best Quality

CUT FLOWERS and Supplies.

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Open for Cut Flower Sales at 6 o'clock Every Morning....

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HARDY Cut Dagger and Fancy Ferns.
A No. 1 quality \$1 per 1000.
Brilliant Bronze and Green Galax, \$1 per 1000, 105,000 lots.
Laurel Festooning, 4, 5 and 6c per yd. Orders by mail, telephone or telegraph promptly attended to. Discount on large orders. L. D. telephone 2618 Main.

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Choice Carnations. Selected Roses.

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38 W. 28th Street, Cut Flower Exchange. New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

New York, Aug. 20.

Roses, Beauty, select.....	15.00@25.00
" " medium.....	5.00@12.00
" " culls.....	.5 @ 2.00
" " Bride, Bridesmaid.....	.50 @ 5.00
" " Liberty, Meteor.....	1.00 @ 5.00
" " Teatout, Kaiserin, Carnot	1.00 @ 6.00
Carnations.....	.25 @ 1.00
Lily of the valley.....	1.0 @ 2.00
Libra.....	3.0 @ 5.00
Sweet peas, per 100 bunches,	1.00 @ 2.00
Cattleyas.....	25.00 @ 60.00
Smilax.....	4.0 @ 8.00
Adiantum.....	.50
Asparagus.....	35.00 @ 50.00
" Sprenger, doz. bun.	2.00 @ 3.00

RELIABLE AT ALL SEASONS.

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REASONABLE PRICES.

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BEST FLOWERS SHIPPED AT LOWEST NEW YORK PRICES.

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Largest Grower of... in the West. Cut Flowers

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Our Greenhouses at PLEASANT HILL, MO.

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LONG DISTANCE PHONE AT EITHER PLACE

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CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

VISITED CHICAGO: A. J. Brown, Grand Rapids, Mich.; R. Drumm, of the Drumm Seed Company, Fort Worth, Tex.

WALTER MOTT, of Jamestown, N. Y., passed through Chicago Friday, on his way to Waterloo, Neb., to inspect seed crops.

L. F. JONES, of Grand Rapids, passed through Chicago Thursday on a visit to his old home at Paw Paw, Ill., where he has not been for twenty years.

Size of Seed In Relation to Produce.

It is a very generally accepted opinion that the size of seed has very little influence in determining the weight of a crop. How little this opinion is borne out by facts, has been very clearly demonstrated by the experiments which have been carried on for some six or eight years past at the Ontario Agricultural College, at Guelph. With the object of ascertaining the effect on the crop produced by sowing large, medium and small seeds, good average seed was procured from the usual local sources and carefully graded into three sizes. In selecting the seeds great care was exercised and nothing but apparently sound grains were used. The crops experimented upon were mangels, carrots, sugar beet, swede, and "fall" turnips, and the average yield for three, four or five years was taken.

The results arrived at were very striking, showing an average variation between the crops from large and small seeds, of no less than thirty-nine per cent. The following table gives details of the experiments, in tons per acre:

YIELD OF ROOTS PER ACRE.

Seeds.	Mangels average 5 years.	Carrots average 5 years.	Sugar beet average 3 years.	Swede turnips average 4 years.	Fall turnips average 3 years.	Average yield per acre for all classes of roots.
Large plump.	33.19	24.47	20.32	13.97	22.79	21.95
Medium sized.	29.6	22.3	19.79	14.39	19.45	20.70
Small sized.	21.52	16.23	14.45	5.66	11.97	13.97

This table shows that for all classes of roots during the number of years through which the experiments were conducted, that large seed produced a yield of nine tons per acre more than small seed, and over two tons more than medium sized seed. It would appear therefore that the question of the relative size of the seed is one of considerable importance and every effort should be made by growers to separate and discard the smaller seeds, even though this may increase the cost of production.

It will be observed that these investigations were only conducted on "root crops," and it is an interesting question whether the size of the seed is of so much importance in the case of other crops, such as cabbage, cauliflower, peas, etc., when portions of the plant other than the root are used.—W. F. Gunn, in Horticultural Advertiser.

Visitor—"Are you fond of flowers, Agnes?"

Agnes—"You bet! Doesn't papa go over to the park after dark every night and steal a lot of em?"—Chicago Daily News.

Sir Dan De Lion.

Sir Dan De Lion rode forth one day,
With his horse-Lound at his heels,
His mettlesome Col'd-foot and the turf,
And the Blue-bills raog glad peals.

And many a lady fair rode too
Her sorrowlith t beautiful day;
There was P m er Nel and little Prim-Rose,
And Violet, Whin and May.

A Man Drake told them the Mountain-Thyme,
So they ate Bread-and-Cheese on the spot;
And Creep ng J nny came up and cried,
"I pray you, Forget-me-not!"

They saw the Bull-rush down to the lake,
And they saw the Cow-slip up;
And they sat on Toad stools and drank bright
mead
From a goldeo Butter-cup.

They heard the Crocus, and donned their
Furze
To the rosky Aseho-d l;
And they all rode home to their flower-beds,
As the ghosly Night-shade fell.

—Chicago Tribune.

Better All the Time.

ED. AM. FLORIST:—I enclose another dollar for my subscription to the AMERICAN FLORIST. I find more and more in it every week. It improves all the time.

JOHN RODGERS.

Western Springs, Ill.

ESTABLISHED 1802

THORBURN'S SEEDS

FREESIAS, CALLAS, LILUM HARRISII, ETC., ETC.

If our trade bulb list has not been received, we shall be glad to send it on application.

J. M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

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PANSY. BARNARD'S FLORIST MIXTURE.

A high class, up-to-date mixture that fills the bill "par excellence"—made up from leading colors, producing flowers of the most perfect type. It gives you pansies that sell.

Trade pkt 25c; 1/8 oz. \$1.00; 1/2 oz. \$4.00; per oz. \$7.00.

Giant Mixture, trade pkt. 25c; 1/8 oz. 50c; oz. \$4.00.

Full assortment of separate colors ready now. New crop of high grade Flower Seeds constantly arriving.

W. W. BARNARD & CO.

101 & 103 E. Kinzie St. CHICAGO.

The Everett B. Clark Co.

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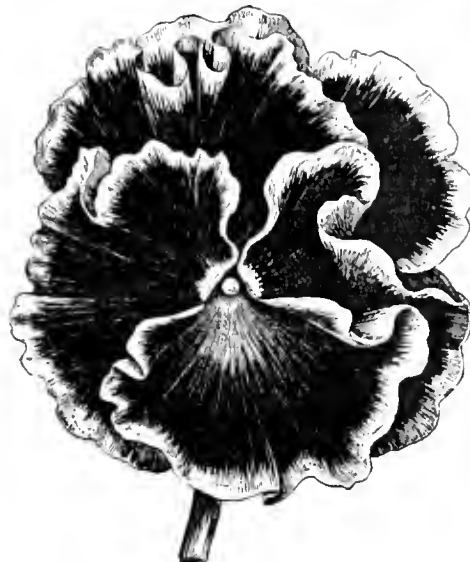
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SPECIALTIES:

ONION, Southport Globes, Turnip Seed and Sweet Corn, also Beet, Parsnip, Carrot, Cabbage.

With an experience of thirty five years in selling and labeling our crops as **STRICTLY NEW ENGLAND GROWN**, the Seedsman can answer all questions without flinching when asked by the market gardener where the seeds were grown.

The Everett B. Clark Co., Milford, Conn.



MASTERPIECE.

MIGNONETTE, TRUE MACHET. Trade pkt., 10c; 1/2 oz., 25c; oz. 50c; 2 ozs., 75c; 1/4 lb., \$1.25.

CALCEOLARIA HYBRIDA, choicest mixture, pkt. 50c.

"Vaughan's International" Primrose Mixture. Unquestionably the best mixture of Chinese Primroses. It contains the largest variety of the best selling colors. Flowers large, beautifully fringed, borne in large clusters well above the rich green leaves. Pkt. (250 seeds) 50c; 5 pkts. (1250 seeds) \$2.00.

CHINESE PRIMULA, Chiswick Red; Alba Magnifica, white; Blue Pink Striped. Each per pkt. of 20 seeds, 50c; 1000 seeds, \$1.75. **DOUBLE CHINESE PRIMULA,** white pink red, mixed, per pkt. 50c.

Cineraria VAUGHAN'S COLUMBIAN MIXTURE. A mixture of the best English and German strains unsurpassed. Pkt. (1000 seeds) 50c; 3 pkts. \$1.25.

Cineraria HYBRIDA, large flowering, white, blood-red or crimson, double white or best double mixed, each, per trade pkt., 50c.

PANSIES.

VAUGHAN'S "INTERNATIONAL"

Received the only reward for Mixed Pansies at the World's Fair. It is to-day better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence, as all the florists who saw or used it can tell you. Price per oz., \$10.00; 1/2 oz., \$5.00; 1/4 oz., \$1.50; trade pkt., 50c.

VAUGHAN'S "GIANT MIXTURE."

This mixture is specially made by us from all the separate colors of Giant Trimardeau the Giant Bugnot and Cassier and several special strains which cannot be had any other way. If your demands large flowers there is no better mixture. Price, 1/4 lb., \$14; oz., \$4; 1/2 oz., 60c; td. pkt., 25c.

MASTERPIECE--New Giant Curled.

This strain comes nearer to "Double Pansies" than anything ever introduced under that name. In reality the number of petals is the same as that in other Pansy flowers, but they are crimped and curled in such a fashion that the flowers appear double. The flowers are of enormous size, of 3 inches across, and the color variations and combinations are odd and striking. Pkt., 50c; 1/2 oz., \$1.50.

GIANT	Trade Pkt	1/2 oz.	1 oz.
WHITE, very large, with violet eye	.10	.20	\$.20
AURORA, pure white without blotches	.10	.25	1.51
ADONIS, new light blue with a white center, very fine	.10	.25	2.00
BLACK, large true black	.10	.20	1.25
SEACONSFIELD, upper petals light lavender, lower ones deep rich purple, a most black	.10	.20	1.20
PRESIDENT CARNOT, white and each petal is almost covered with a deep, rich velvety blotch of dark violet blue	.15	.35	2.25
PRESIDENT MCKINLEY, deep golden-yellow, each petal has a large blotch of dark violet	.25	.45	3.00
"FIERY FACES," very rich scarlet with a gold edge and yellow center	.25	.45	3.00
PINK, lovely shades of pink, same as in Indragaea	.25	.45	3.01
STRIPED, mahogany, striped, mottled and flaked white	.10	.20	1.20
PARISIAN STRIPED, stripes are broader and louder than the preceding; a gem	.10	.25	1.60
EMPEROR WILLIAM, dark navy-blue, good form	.10	.20	1.25
YELLOW, intense flowers with dark eyes	.10	.20	1.25
TRIMARDEAU, mixed	.10	.20	1.00
TRIMARDEAU IMPROVED, contains all the Trimardeau colors in the right proportions	.15	.25	1.50
BUTTERFLY, a unique mixture	.10	.20	1.25
PARIS MARKET, an improved strain of Trimardeau, with better flower and of compact habit	.10	.25	1.50
BUGNOT, the flowers are of enormous size, perfectly round, of great substance. Our "Bugnot" contains shades of red, bronze and red-dish-brown	.25	.50	3.50

10 PER CENT discount on flower seed orders amounting to \$2.00 and over for Cash with order.

VAUGHAN'S SEED STORE, 14 Barclay Street New York, 84-86 Randolph St. Chicago.



H. Wrede, LUNENBURG, GERMANY PANSY SEED.

155 First Prizes, the highest awards Chicago, Hamburg 97, Paris 1900 1000 Seeds, finest mixed, 25c. 1 oz., \$2.25

Price List on application. Cash with order. Please mention the American Florist when writing.

PANSY SEED. The Jennings Strain

of High Grade Pansy Seed now ready. Stock this season is the finest I have ever sown. Finest mixed, \$1 per pkt; \$3 per 1/2 oz.; \$5 per oz. Separate colors in red, white blue, black and yellow, 50c per pkt. Pansy plants ready Sept. 1. Cash. E. B. JENNINGS, Lock Box 254, Southport, Conn. Grower of the Finest Pansies.

Pansies MME. PERRETT

Mme. Perrett is the finest strain of Pansies on the market. I have the true, genuine strain. Trade pkt. 50c; 1/2 oz. \$2.50; oz. \$4.00. Plants ready September 15th.

J. C. Schmidt, Bristol, Pa.

PANSY SEED Superior Strains. Imported Direct from Best Growers.

Choice named varieties, per 1/2 oz., 75c; 1/4 oz., \$2.50. "mixture, select seed 20 var. t. pk. 35c; oz. \$4. Giant Trimardeau, high grade mixture, oz., 75c. Cassier's Giant, choicest mixture, per oz., \$2.50. Mammoth Butterfly, very fine, 1000 seeds, 25c.

JAS. C. MURRAY, Seedsmen, PEORIA, ILL.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

New Crop Pansy Seed.

Superb Show Mixture, 1/2 Oz., 75c; Oz., \$5.00
 Finest Giant Strains Oz., \$2.50; in mixture, Oz., 2.60
 Cineraria Giant Prize Mixed.....trade packet, .75
 Cineraria, New Large Flowering Striped, Tr. pkt. .25

NOW READY.

	Per 100	Per 1000
Lilium Harris, 5-7	\$4.50	\$4.00
" 7-9	11.00	100.00
Lilium Candidum 20 centi. and up	5.50	
Callas, 5 1/2 6 centi. circumference	7.00	65.00
" 4 1/2 5 1/2 "	5.50	50.00
Freesia, 1 1/2-2 centi.	.91	8.00
Roman Hyacinths, 12-15 centi.	2.50	24.00

W. C. BECKERT, Allegheny, Pa.

Garnations

Fine field-grown stock, consisting of the following varieties: White Cloud, Joost, Geneva vs Lord, Queen Louise, Flora Hill, Marquis, Crane. No better stock offered. Price, \$7.00 per 100.

S. S. SKIDELSKY, 708 NORTH 16TH ST., PHILADELPHIA.

Zirngiebel Giant Pansies.

Trade packages at one dollar each. Also plants of the above strains at \$5.00 per 1000, guaranteed equal to any that we ever sent out.

DENYS ZIRNGIEBEL, Needham, Mass.

PANSY Philadelphia

(New Crop.) Giant Fancy Mixture, td. pkt, 50c; oz., \$5.00.

D. LANDRETH & SONS SEEDSMEN,

1217 Market St., Philadelphia, Pa.

Seed Pansy Seed

Roemer's Superb Prize Pansies. The World's Best. New crop ready now. My own growing. This mixture comprises the choicest strains of Pansies grown, all the new shades and richest colors are included, and for beauty, variety of color, size of flower and perfect conformation is unsurpassed. Mixed, per pkt. of 3000 seeds, \$1.00; 1/2 oz. \$1.50; 1/4 oz. \$2.50; 1 oz. \$5.00. Cash with order.

PFFTER BROWN, Lancaster, Pa.

FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packages at \$1.00 each.

M. B. FAXON, Lock Box 1528. BOSTON, MASS. Correspondence solicited.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.
 CHAS. A. ILGENFRITZ, PRES.; D. S. LAKE, Vice-PRES.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.
 Twenty-eighth annual convention, Detroit, Mich., June, 1903.

THE mulberry is a seldom planted tree but a number of nurserymen report calls for the Downing last spring.

THE Charlton Nursery Co., Rochester, N. Y., has bought two acres of land upon which to build packing sheds.

H. E. VAN DEMAN says that the Monocacy apple, grown in Western Maryland, is well worth a trial in other places.

PROF. BAILEY says that the long rotation of crops in growing nursery stock burns the humus out of the soil and interferes with its mechanical character, rather than taking the life out of it.

Philadelphia.

GOODLY NUMBER IN CONVENTION PARTY.—GIVEN ROUSING SEND-OFF.—MARKET PROJECT MAKING GOOD PROGRESS.—BUSINESS QUIET.—VARIOUS NOTES.

The most important event of the week was the departure of the conventionites for Asheville. There was quite a crowd of the stay-at-homes gathered at the station to see them off and wish them a pleasant journey. It was a merry party and the predictions of the committee were fulfilled, in that the number reached over fifty, which, considering the distance, was a good showing. There were many admonitions to bring that Lord & Burnham cup and another back with them. Captain Moss said they would try and have something good in charge on their return from the "sky land." The only shadow was the knowledge that Mr. Burton was not to be one of the party, and many expressions of sympathy were heard. Finally at 12:29 the train pulled out, the New Yorkers having shown themselves for a minute or two on the platform. There were cheers and waving of hats and a last admonition about the silverware and the train pulled out of sight.

We are glad to be able to report that the market project is moving along and that considerable progress has been made. It is proposed to form a stock company under Pennsylvania laws and issue 500 shares of stock at \$20 per share, this making a capital of \$10,000. Quite a number of shares have already been subscribed, the first deposit of \$5 on which will not be due until October 1. The price of stalls is to be \$50 per annum, or about 16 cents per day, which sum should surely not embarrass any one. We are glad to see that the project is meeting with such success and hope before the chrysanthemums make their appearance the market will be an accomplished fact.

Business has been very quiet the past week. There are signs of improvement in the flower supply, as the new crops of roses are getting better and more growers are cutting. A few nice eighteen-inch Beauties are seen and some fair Bridesmaids. There are quantities of gladioli, but \$1 per hundred will buy good stock, so there cannot be much in it for the growers. Lily of the valley is very pale and weak. Last year at this time it was very fine. What is the matter?

Myers & Company, the horticultural builders, are much pushed at present, having four large operations on hand and others in prospect. K.

James W. Dunford.

James William Dunford, whose portrait appears on page 138 was born in London, England, in 1870. At the age of thirteen years he entered the employ of Sutton & Sons, the noted seedsmen at Reading, Berkshire. After being with them nearly five years, he left England for the United States. Here he attended the School of Agriculture of the University of Minnesota during the winter months and worked in the horticultural department of the Experiment Station during the summer. He was graduated in 1890. Mr. Dunford then spent two years at the Missouri Botanical Garden, St. Louis, as assistant head gardener and was for one year landscape gardener for the Illinois Northern Insane Asylum. He then put in one season with John H. Taylor, the well known rose grower at Bayside, L. I., and in the spring of 1894 started in business for himself as a rose grower at Central, Mo., with one house 20x100

and limited capital. After a year or two roses were dropped and carnations substituted. In 1901 F. B. Call entered as partner in the business, which from that time became known as the St. Louis Carnation Company. At present the place consists of about 45,000 square feet of modern greenhouses, a well equipped machine shop and packing house, flower cellar and boiler shed that are models of their kind.

More Than His Money's Worth.

ED. AM. FLORIST:—Enclosed is a check for the renewal of my subscription. I am one of the original subscribers to your journal and during all these years I have appreciated the fact that I have always got more than my money's worth.

Oak Park, Ill. Jos. F. KLIMMER.

BLOOMINGTON, ILL.—W. T. Hempstead is adding another large greenhouse, this having been a good season.

B. & A. SPECIALTIES

ENGLISH MANETTI.....\$12.00 per 1000
 FRENCH MANETTI.....\$10.00 per 1000

ASK FOR FALL CATALOGUE NOW READY.

BOBBINK & ATKINS, Rutherford, N. J.

Look at This.

The largest and finest standards of *Hydrangea paniculata grandiflora* in the country at reasonable rates. Several standards of Forsythias and Weeping Lillacs, all in true tree form and carefully staked. Immense blocks of Spiraea Anthony Waterer, S. trilobata, Viburnum tomentosum and all the fine shrubs on the market.

HOOPES BRO. & THOMAS,
 Maple Ave. Nurseries, WEST CHESTER, PA.

SPECIALS FOR THIS FALL.

- 5,000 Spiraea Anthony Waterer, 2 to 3 feet.
- 5,000 Althea double, named 3 to 5 feet.
- 5,000 Vinca Major Var., field stock.
- 5,000 Shrubs and Vines, 2 and 3 years old.
- 50,000 Cannas, leading sorts, including three best pink cannas.
- 10,000 Field Clumps Violets, California and L. H. Campbell, for Fall delivery.

Ready Now, from 2 1/2-inch Pots.

Marie Louise, L. H. Campbell and Swanley White, good stock, \$3 per 100; \$5.10 per 1000. California, from soil, \$1.00 per 100. Cash please.

BENJ CONNELL, West Grove, Pa.

WANTED,
 Box Edging

in quantity. Larger sizes, 6 inches and over preferred.

OGLESBY PAU, VILLA NOVA, PA.

NEW FRUITS.

	100	1000
Golden Mayberry, strong transplants,	\$1.00	
Leeburg Blackberry,	4.00	
Rathun Blackberry,	3.00	25.00
Cumberland Raspberry,	3.50	30.00

The Conrad & Jones Co, West Grove, Pa.

B. W. DIRKEN,
 Oudenbosch, Holland.

ORNAMENTAL AND FOREST TREES
 A SPECIALTY.

Conifers, Evergreens, Hollies, Etc.
 Prices on Application.

Park Architects and Dealers

will find whatever they want in the

Holland Nurseries, De Bilt near Utrecht
 HOLLAND.

SPECIALTIES ARE: Conifers, Evergreens, Hardy Shrubs, Lilacs, Ornamental Trees, Fruit Trees in different forms, Azaleas, Rhododendron Ponticum and Hybridum.

Please send list of your wants and write for general catalogue. We will make you special offers. Write to

GROENEWEGEN & ZOON,
 De Bilt, near Utrecht, Holland.

Strawberry
 Plants.

FROM POTS. Well established young plants of Gloye and Wadfield (both immense croppers), for planting now and in August. Warranted to produce a full crop of the finest berries next spring. Price 50c per doz.; \$3.00 per 100. P. S.—100 planted now will give an ordinary family all they can use.

F. A. BALLER, BLOOMINGTON ILL.

50,000

AZALEA AMOENA

\$12.50 per 100, \$100.00 per 1000.

10,000 AMPELOPSIS VEITCHI AND WISTARIA SINENSIS, \$4.00 per 100; \$25.00 per 1000.
 YUCCA FILAMENTOSA, \$1.50 per 100; \$10.00 per 100.

Send for trade list of seedlings and ornamental stock.

SAMUEL C. MOON, Morrisville, Pa.

LAUREL HILL Nurseries,
 F. BRUNTON
 Manager.

Importers and growers of Choice Hardy Perennials, Native Trees, Shrubs, Specimen Evergreens. Also grow large quantities of Iris, Paeonias, Trilliums, Phlox, Delphiniums; stock is perfectly hardy, true to name. Send for Special Catalogue of New Hybrid Alpine Iris, now in the press. STOCKBRIDGE, MASS., U. S. A.

IVORY, or White Golden Gate. TRUE STOCK

Strong 4-inch pot plants, \$6.50 per 100; \$60.00 per 1000.

Strong 2 1-4-inch pot plants, \$3.00 per 100; \$25.00 per 1000.

W. A. Hammond
107 E. Broad St., Richmond, Va

Cressbrook Carnations

From field, nice strong plants,
\$10.00 per hundred; \$75.00
per thousand.

Order early as I have only a few thousand left.

C. WARBURTON,
FALL RIVER, MASS.

WANTED, 9,000 Maid Plants.

Strong, 3-inch. Address
LAKEVIEW ROSE GARDENS
JAMESTOWN, N. Y.

All The Best CARNATIONS

Orders hooked now for fall delivery.
SEND FOR PRICES.

Rotted cuttings and young plants all out.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

VIOLETS from both 2 1/2 and 3-inch
pots, in splendid condition
to plant now: Imperial M.
Louise and Swanley White,
2-inch, \$2.75 per 100; \$25.00 per 1000. Campbell,
\$2.50 per 100, \$22.50 per 1000. 3-inch, \$4.00 per
100; \$35.00 per 1000.

CARNATIONS from the field, write for prices.
SMI. AX. 2-inch, \$1.50 per 100. 3-inch, \$3.00 per
100; \$5.00 per 1000.

CRABB & HUNTER, GRAND RAPIDS, MICH.

FOR SALE. 5,000 FIELD-GROWN VIOLETS

LADY CAMPBELL, very fine clumps.

MANN & BROWN, Richmond, Va.

Princess of Wales and Lady Campbell

VIOLET PLANTS.

Strong field-grown clumps from sand struck
cuttings ready September 1, \$5.00 per 100; \$4.00
per 1000; Samples 10 cents.

The Albert H. Brown Co., Westboro, Mass.

SEED PEAS

Laxton's two fine new early varieties,

Thomas Laxton and Gradus

FOR FALL DELIVERY.

Enquiries solicited. Price and full particulars on application.

LAXTON BROTHERS, SEED GROWERS
BEDFORD, ENGLAND.

Cut Gladiolus Spikes

of the HIGHEST QUALITY, in
lots of from 100 to 100,000.
Pink, scarlet, crimson, white,
light, yellow, blue, lavender
and heliotrope; in fact, almost
every shade imaginable.

Write for prices and particulars, stating your requirements.

ARTHUR COWEE, "Meadowvale Farm" Long Dist 'Phone, **BERLIN, N. Y.**
U. S. Representative and Grower of **GROFF'S HYBRIDS.**
Watch this space for both advertisement later.

Surplus Stock CHEAP.

Per 100
500 Golden Gate Roses, 3-in., strong.....\$5.00
600 Bride Roses, 3-inch, strong. 5.00
700 Bridesmaid Roses, 3-inch, strong..... 5.00
700 Baby Primroses, 2 1/4-inch, strong.... 2.50
400 Latania Borbonica, 3-inch pots, good
for growing on, will clean them out at 4.00
2,000 Kentias 1/4 Belmoreana, 3-in. pots 10.00
Will make a very low price on the entire lot.

Walker & McLean, Youngstown O.

BARGAIN! ROSE PLANTS

Five Thousand Strong, Vigorous, Healthy.

BRIDESMAID, 3-inch.....	100	1000
" " " " " "	\$4.00	\$35.00
" " " " " "	3.00	2.00
GOLDEN GATE, 3-inch.....	4.00	35.00
" " " " " "	3.00	25.00
BRIDES, 3-inch.....	5.00	45.00
A few PERLES and BEAUTIES, 3-in.	5.00	

A. C. BROWN,
Successor to Brown & Canfield,
SPRINGFIELD, - ILL.

Violets MARIE LOUISE specially
grown for forcing. These are
from cold frame, free from
disease and insects, and are
in first-class condition for
planting during August. Per 100, \$3.50; per 1000,
\$30.00.

W. H. THOMAS,
Convent Station, Morris Co., N. J.

Orders booked now—delivery in September—
for my Nephrolepis Fern

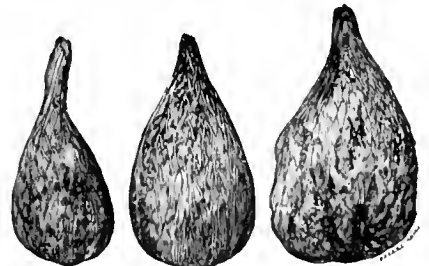
"ANNA FOSTER"

Small plants, \$25.00 per 100; larger
plants prices on application

L. H. FOSTER, 45 King St., Dorchester, Mass.

FREESIAS.

FRENCH GROWN.



1st size, \$4.50; Mammoth, \$7.50; Jumbo,
\$12.00 per 1000 Bulbs.

**Vaughan's Seed Store, CHICAGO
New York**

Strong 3-inch Roses

Exceptionally fine healthy stock at
special very low prices to make room.
Brides and Maids, 3-inch..... \$40.00 per 1000
Golden Gate, very choice, 3-inch..... 45.00 per 1000
Maidens, 3-inch..... 30.00 per 1000
Brides and Maids, 2 1/2-inch..... 20.00 per 1000
SPECIAL OFFER—100 AT 1000 RATES.
Carnations.—M. Aquis, Joost, Triumph, Jubilee,
Scott and Armazudy, fine field plants, \$5 per 100
\$45 per 1000. Mrs. Bradt, \$7 per 100; \$80 per 1000.

W. H. Gullett & Sons Lincoln Ill.

GRAND RAPIDS VIOLETS

Field-grown Lady Campbell and Swanley
White at \$4.00 per 100 \$35.00 per 1000.
Sample 10c. Cash with order.

ELI CROSS, GRAND RAPIDS, MICH.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

Convention Bowling Contest.

The team bowling contest was on the alleys of the Albemarle Club, which were perfect in every respect. The scores were not high, however, as for some reason the strain or extra earnestness put into the work seemed to interfere with the judgment of the players and some good men made poor showings. Baltimore and Chicago were first up. After a spirited contest Baltimore managed to win the last game by two points, Chicago getting the first two by good margins.

They gave way to Philadelphia and New York. In this struggle Philadelphia soon drew away and, obtaining the lead, kept it to the finish. The second game, 883, proved the highest single of the match and with this they get the Detroit hotel prize, which is now their property, as they had won it once before, in Detroit. They also won the Hitchings cup, for high last game, with 863, and the Lord & Burnham prize, for high total in three games, with 2,580. This is now theirs absolutely, as they had one win in Buffalo last year.

Detroit and Cincinnati were to follow, but Detroit rolled alone, as Cincinnati did not then show up, having had trouble getting together. Detroit played a good score by themselves and would likely have done better had they been pushed.

The individual prizes for players in the tournament went, first for high single game (188) to Robert Halliday, of Baltimore; for high total in three games (494) to B. Starkey, of Philadelphia; second high total (467) to George Moss, and same player first for highest number of strikes (12). Wm. Robertson, of Philadelphia, won the prize for the greatest number of spares (15). So it may be said that Philadelphia made a clean sweep, for with the exception of the highest single game they got everything else in sight.

The following are the complete scores:

CHICAGO	1st	2d	3d	T ¹
Wilson	129	163	146	438
Winterson	142	111	142	395
Hartshorne	147	143	131	420
Enders	116	175	110	401
McKellar	184	144	134	461
Sammelson	75	97	122	294
Totals	791	833	784	2408
BALTIMORE	1st	2d	3d	T ¹
Halliday	136	188	156	479
Welsh	134	107	100	341
Lehr	124	115	155	404
Moss	126	142	176	444
Patterson	116	158	117	391
Berry	87	91	92	270
Totals	718	811	786	2315
PHILADELPHIA	1st	2d	3d	T ¹
Moss	136	163	168	467
Anderson	114	115	131	360
Starkey	150	165	179	494
Watson	143	172	128	443
Robertson	146	163	126	435
Kift	145	115	118	378
Totals	834	883	863	2580
NEW YORK	1st	2d	3d	T ¹
Lang	133	146	118	407
O'Mara	115	113	115	343
Truandly	146	166	161	473
Siebrecht	159	105	147	411
Shaw	119	146	110	375
Thielman	99	131	130	360
Totals	742	796	799	2337



BASE BALL TEAMS OF BERNING AND TESSON, ST. LOUIS.

DETROIT	1st	2d	3d	T ¹
Breitmeier	162	147	135	444
Dunn	127	92	133	352
Sullivan	144	140	188	472
Taylor	152	142	111	405
Dilger	117	129	124	361
Balsley	108	122	104	334
Totals	810	763	795	2768
CINCINNATI	1st	2d	3d	T ¹
Gillett	95	129	95	319
Murphy	101	146	110	347
George	178	124	112	414
Suanderbruch	95	116	163	374
Witterstaetter	93	117	82	292
Critchell	142	113	177	432
Totals	704	745	729	2478

The following are the scores in the contests for individuals:

25 TO 55 YEARS, BAYERS-DORFER MEDAL.				
Player	1st	2d	3d	T ¹
A. J. Guttman, New York	105	139	144	388
C. J. Graham, Cleveland	132	114	246	492
H. Biehholz, Waynesboro	64	66	130	260
H. Papworth, New Orleans	99	87	186	372
H. Brown, Richmond	88	113	21	222
W. H. Ernest, Washington	74	113	187	374
Frank Adelberger, Wayne, Pa.	83	110	193	386
C. C. Pollworth, Milwaukee	135	110	245	490
C. C. Sanders, St. Louis	90	112	102	304
H. R. Brown, Lynchburg	99	82	181	362
J. W. Rodgers, Cincinnati	113	138	21	272
G. L. Grant, Chicago	84	115	199	408
Wm. Rehder, Wilmington, N. C.	92	115	207	414
OVER 55 YEARS, WATSON MEDAL.				
Player	1st	2d	3d	T ¹
E. C. Weber, St. Louis	93	119	102	314
W. K. Harris, Philadelphia	130	132	262	524
Wm. Scott, Buffalo	117	107	221	445
Geo. McClure, Buffalo	129	151	271	551
W. J. Baker, Philadelphia	131	117	247	495
John Westcott, Philadelphia	109	131	240	480
UNDER 25 YEARS, BERKOWITZ MEDAL.				
Player	1st	2d	3d	T ¹
G. B. Wadler, St. Louis	55	89	144	288
I. Bertramann, Indianapolis	108	82	190	380
Wm. R. Gibson, Philadelphia	105	168	273	546
E. U. Lofler, Washington	107	96	203	406

Convention Gunners' Contest.

The shooting contest took place at the grounds of the Asheville Gun Club on Thursday afternoon, August 21, and proved a most successful event. A team composed of shooters from the S. A. F. met the citizens of Asheville and after the contest was over it was remarked what a pleasure it was for the florists to lose to such a lot of perfect gentlemen as the Asheville representatives.

The shoot was run off without a single hitch and after the smoke had cleared away it was found that the S. A. F. were short nine birds in 300 and had to bow gracefully to the superior skill of the mountaineers. The prizes for each member of the winning team consisted of gold scarf pins, which were presented on behalf of the shooters by Wm. Scott, in his usual happy and appropriate style. Major McKissick accepted the prizes and deputized Colonel Lush to reply. The Colonel was in happy vein and stirred

the hearts of his hearers in true southern style, complimented everybody and spread a radiant oratory over the mountain top that warmed the hearts of the visitors. The scores follow:

FLORISTS.		ASHEVILLE.	
Hammond	41	McKissick	44
Harris	47	Cox	42
Allick	46	Carrier	45
Cartledge	46	Miller	44
Anderson	39	Binham	48
Reid	37	Lush	45
Total	559	Total	268

In the individual shoots which preceded the main event the first was at fifteen targets and resulted in a tie by four for first place, with total of fourteen. This tie was settled in the next, which was at twenty-five birds, in which Hammond made 24 and Anderson and Harris 23 each. Mr. Anderson retired in favor of Mr. Harris for second place and took third.

Several informal events were run off subsequently, completing a delightful afternoon's sport. In one of these informal affairs mixed teams captained by McKissick and Anderson did some very fine scoring and wound up in a tie, which was won in the shoot-off by the McKissicks and the penalty was gracefully paid by the Anderson aggregation at the Battery Park buffet the same evening. One of the features of the shoot this year was the fine form of the veteran, William K. Harris. He received the congratulations of his friends in general and was one of the happiest of mortals and glad he came to Asheville. Much credit is due the committee, Messrs. Cartledge and Halliday, for the excellent arrangements made for the shoot. They worked hard and had the satisfaction of seeing everything go off smoothly.

Capacity of Boiler.

ED. AM. FLORIST:—We now have 2,000 feet of glass and are adding 1,500 feet more. Will a ten-horse-power boiler supply hot water to heat that amount? We have an Economic boiler in good condition, located in the basement to give good circulation. The houses are sixteen feet wide. How many 2-inch pipes will be required in each? J. J. M.

While the boiler might answer if fully up to its rating, it will not be as satisfactory as a larger one and will not be as economical in either fuel or care. Nothing is said about the temperature desired. For 60° eleven 2-inch pipes will be necessary and for 50° eight will answer, if there is no glass in the side walls. L. R. TAFT.

“Something Doing” at Kansas City.

The plans for the Kansas City Flower Show have been approved, and \$7,000 appropriated by the Directors of Convention Hall to pay premiums with. A thousand of Kansas City's hustling business men have been appointed on Committees, and with characteristic Kansas City spirit are working out the details of the

All-American Flower Show

to be held in Convention Hall, Nov. 3, 4, 5, 6, 7 and 8, and which will go down in history as the greatest Flower Show of 1902.

Kansas City Offers:

The greatest hall in the world to exhibit in.
The largest premium list ever offered to exhibit for.
The largest special premiums ever offered.
A guarantee that every award will be paid in full.

SOME NEW WRINKLES.

Hundreds of store windows beautifully decorated in plants and flowers in friendly rivalry, in competition for special premiums offered by local florists.

The Home of Washington at Mount Vernon, faithfully reproduced in Convention Hall, even to the old-fashioned flowers.

A Charity Sunday, Nov. 9th.

The Flower Show Ball, Nov. 10th, with 2,000 couples dancing at one time on the polished floor—the largest dancing floor in the world—in the only hall where this sight could be possible.

A hundred thousand visitors to see and be seen.

F. J. TAGGART,
Director General.

JOHN THORPE,
Superintendent.

UNDER THE AUSPICES OF
 U. S. Epperson, C. F. Holmes,
 W. H. Winants, John A. Brown,
 F. S. Doggett, F. J. Taggart,
 C. M. Baldwin, F. L. La Force,
 John W. Speas, W. B. Thayer,
 H. F. Lang, Fred W. Fleming,
 Chester A. Snider,
 DIRECTORS OF CONVENTION HALL.

JUDGES:

John Young, New York.
 Edwin Lonsdale, Philadelphia.
 Edwin A. Kanst, Chicago.

PREMIUM LIST OUT IN A FEW DAYS.

Montreal.

TRADE GOOD AND WHITE FLOWERS IN BRISK DEMAND.—OUTDOOR STOCK GOOD.—VARIOUS NOTES.

Trade in Montreal is fairly good, with white flowers for funeral work in brisk demand. The cool and wet weather has been favorable to dabbias. Sweet peas and asters are also better than formerly. Carnations in the fields are good all around. Chrysanthemums are showing well, but some growers are troubled with the white fly on them.

There will be a good many of the Montreal boys at the convention at Hamilton September 3 and 4.

Everybody is busy building or rebuilding. G. V.

The Oak and the Squash.

When the late President Barrows, of Oberlin, college was asked by a student if he could not take less than the regular four years' course, Dr. Barrows looked the applicant over thoughtfully and replied:

"Why, certainly, my lad. A short course if you like, but my advice to you is to take the longest course possible. The length of time you wish to devote to study rests with you entirely, and should depend on what you intend to become. Just remember that when God wants to make an oak he takes a hundred years, but when he wants a squash he takes six months."—Chicago Inter Ocean.

LYNN, Mass.—The greenhouses of Mrs. Henry Young have been leased to Frank J. Dolansky.

BERLIN, CONN.—Carl Mechant has gone to New Haven, where, it is reported, he has bought some greenhouses.

SAN ANTONIO, TEX.—The P. D. Hauser & Sons Floral Company is making extensive improvements this year in its greenhouses. They will have over 60,000 feet under glass when completed. They are also making improvements at their South Heights nurseries.

**FIELD-GROWN
Carnation Plants**

of the following varieties:
ETHEL CROCKER, G. H. CRANE,
FLORA HILL, FRANCES JOOST.
Send for sample and prices; ready for planting
JOHN WOLF, Savannah, Ga.

6,000 VERY FINE FIELD-GROWN

Carnations

that we guarantee will please anyone.
Write for list and prices.

FURROW BROS., Guthrie, Oklahoma.

CARNATIONS

Marquis, Gomez, Crane, fine field-grown, \$5.

ROSES Brides and Maids, 3 1/2-inch, \$4.00.

L. E. MARQUISEE, Syracuse, N. Y.

**4,000 Field-Grown
CARNATIONS**

WILLIAM SCOTT, good plants, \$30 per 1000.
Cash with order.

Josiah S. Robbins, Allentown, N. J.

**FIELD-GROWN
CARNATION Plants.**

	Per 100	Per 1000		Per 100	Per 1000
4,000 DAYBREAK	\$4 00	\$35 00	4,000 G. H. Crane	\$5.00	\$45.00
4 000 CHAPMAN	4 00	35 00	2,000 IRENE	6 00	50 00
1,000 MCGOWAN	4.00	35 00	5,000 Guard'n Angel	6 00	50.00
1,000 ELDORADO	5 00	45.00			

Plants in good health. Order now and have them reserved for you in the field.

KENNICOTT BROS. CO.

WHOLESALE COMMISSION FLORISTS, 42-44 Randolph St., CHICAGO.

Carnations! Carnations!

THE BEST FIELD-GROWN STOCK. EVERY ONE A CHOICE SELECTED PLANT.

	Per 100	Per 1000		Per 100	Per 1000
Bon Homme Richard	\$5.00	\$45.00	Daybreak	\$4.00	\$35.00
America	4.00	35.00	Gen. Gomez	4.00	35.00
Jubilee	4.00	35.00			

Order Quickly. Plants reserved for later shipment if desired. Terms Cash.

H. W. BUCKBEE, ROCKFORD SEED FARMS, FOREST CITY GREENHOUSES, ROCKFORD, ILL.

Extra Fine Field-Grown

CARNATION Plants

1000 Thos. W. Lawson	\$8.00 per 100
1500 Wm. Scott	5.00 per 100
1500 Flora Hill	5.00 per 100
2000 Ethel Crocker	5.00 per 100
500 G. H. Crane	5.00 per 100
300 Mrs. Bradt	6.00 per 100
300 Gen. Maceo	6.00 per 100
300 Norway	6.00 per 100
1000 Mrs. Joost	6.00 per 100

LEO. NIESSEN,

N. W. Corner 13th and Filbert Streets,
PHILADELPHIA, PA.

15,000 Field-Grown 15,000

CARNATIONS

Extra fine plants of Lawson, Roosevelt, Marquis, Crane, White Cloud, Cervera, Joost, and Maceo. Write for price list.

GEO. E. BUXTON, Nashua, N. H.

**FIELD-GROWN
CARNATIONS**

200 Marquis, 800 Lawson, 700 Norway, \$6 per 100. 3.00 Flora Hill, 1000 Crane, 800 Triumph, 800 Daybreak, \$5.00 per 100; \$ 5.00 per 1000. Cash.

W. SABRANSKY, KENTON, OHIO.

Mention the American Florist when writing to advertisers on this page.

Field-Grown

CARNATIONS

Fine, Strong, Healthy Plants.

	Per 100	Per 1000
PROSPERITY	\$4.00	\$35.00
MRS. LAWSON	7.00	60.00
MRS. BRADT	7.00	60 00
MARQUIS	4.00	35 00
NORWAY	4 00	35 00
GENEVIEVE LORD	4 00	35.00

PETER REINBERG,

51 Wabash Ave., Chicago.

Please mention the American Florist when writing.

CARNATIONS

FROM HIGH GROUND.

Morning Glory, Hill, Crane, America,
Marquis, fine stock.

W. H. WATSON, Lapeer, Mich.

Chicago Carnation Co.

Joliet, Illinois.

Please mention the American Florist when writing.

The Greatest Victory Yet

THE PIERSON FERN Nephrolepis Piersoni, Awarded S. A. F. Gold Metal

Asheville Convention, August 20, 1902 Read what the judges say: "Many magnificent specimens were staged, of various sizes, both in pots and pans. The committee considers this the finest decorative fern introduced in recent years. Among Nephrolepis it represents what Farleyense is among the Adiantums and the committee strongly recommends it be awarded a gold medal."

Signed, HARRY PAPWORTH, WM. SCOTT, LEWIS ULLRICH.

THE ONLY GOLD MEDAL EVER AWARDED BY THE S. A. F.

Will be introduced to the trade in spring, 1903 Demand is sure to be enormous Place your order at once in order to secure early delivery, as orders will be filled strictly in rotation. **Prices:** \$9.00 per doz; 50 plants at 60c each; 100 plants at 50c each; 500 plants at 45c each; 1,000 plants at 40c each.

Send for our Illustrated List giving full description.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

Asparagus.

50,000 Asparagus Plumosus Nanus, extra strong bright clean plants, 2½-inch, \$3.50 per 100.

Sprengeri, fine strong plants, 2½-inch, \$3.00 per 100.

Boston Ferns, 2½-inch, \$3.00 per 100; 8-inch, 75c each.

25 Fine Rubber Plants, 3 feet, \$1.00 each. The lot for \$20.00.

CASH PLEASE.

A. J. BALDWIN, NEWARK, O.

ASPARAGUS PLUMOSUS

Extra fine 3-inch stock, \$3.50 per 100; \$30.00 per 1000. 2½-inch, \$4 per 100; \$35 per 1000.

Pansy Seed

1892 GIANT OF CALIFORNIA.
\$4.00 per ounce, ¼ ounce at same rate.

FIELD-GROWN CARNATIONS.

QUEEN LOUISE.....\$7.00 per 100.
MERMAID..... 6.00 per 100

Loomis Floral Co.
LOOMIS, CAL.

ROSE PLANTS.

CLEARANCE SALE—Brides, Bridesmaids and Mothers, \$3.00 per 10; \$29.00 per 100.
Repeat three times. Elegant stock. Never offered better plants. Unknown parties cash with order.

BRANT & NOE, FOREST GLEN, CHICAGO

The Storrs & Harrison Co.

PAINESVILLE, OHIO.

PALMS.

KENTIA BELMOREANA, 2½-inch pots, \$8.00 per 100.

" " 3-inch pots, \$15.00 per 100

" " 24 to 28 in., fine bushy plants, \$1.25 each; \$15.00 per doz.

" " 30 to 32 in., perfect condition, \$1.75 each; \$20.00 per doz.

ARECA LUTESCENS, 3-inch pots, (3 plants in pot), \$12.00 per 100.

" " 6-inch pots, (3 plants in pot), 24 inches high, \$70.00 per 100.

FERNS from 2¼-inch pots.

PTERIS TREMULA, a large stock of this in excellent shape, short stocky plants ready for shipment. Always in good demand from any size pots, \$2.50 per 100.

PTERIS Adiantoides, Pteris Cretica Albo-Lineata, Pteris Alexandræ, Pteris Ouvrardi, Pteris Serrulata, each, \$2.50 per 100.

QNYCHIUM JAPONICUM, \$3.00 per 100.

ADIANTUM PUBESCENS, \$3.00 per 100.

Good assortment of **FERNS**, our selection of varieties, \$20.00 per 1000.

ASPARAGUS.

PLUMOSUS 2½-inch pots, \$4.00 per 100; 3-inch pots, \$6.00 per 100.

SPRENGERI, 2-inch pots, \$2.50 per 100; 2½-inch pots, \$3.00 per 100.

DRACÆNA GODSEFFIANA, 3-inch pots, \$1.50 per dozen.

MARANTA MASSANGIANA, 2½-inch pots, \$3.00 per 100.

ROSES FOR WINTER FLOWERING

IVORY, American Rose Co.'s Stock, \$9.00 per 100.

PERLES, BRIDES, BEAUTIFUL, CONTIERS,
MME. HOSTE, SAFRANO, GOLDEN GATES,
3-inch pots, \$6.00 per 100.

GRAFTED GOLDEN GATE, very fine, \$12.00 per 100.

BRIDESMAID, 3 1-2-inch pots, \$12.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

Please mention the American Florist when writing.

Toronto.

BUSINESS GOOD FOR THE SUMMER SEASON.—WEATHER FAVORABLE TO STOCK.—ALL GOOD MATERIAL SALABLE.—MUCH INTEREST IN CANADIAN TRADE CONVENTION.—VARIOUS PERSONAL NOTES.

Summer trade is good. The cool weather is keeping many of the best people in the city and society is very active for this time of the year. There is a good demand for stock and anything at all salable is easily disposed of. The cool weather has been very favorable to roses. The new crop of Meteors is longer in the stem and well colored. Kaiserin is again in crop and Beauties are advancing in quality. Bridesmaids and Brides are not so good, but an improvement is expected within the next few days. Carnations are smaller and there are very few around. The young plants in the field have made good progress and are in excellent shape for planting. Some good lilies, both longiflorum and auratum, are seen. Cool, wet weather has been very favorable to gladioli and dahlias, as there were never better flowers on the market than are seen this season. Asters still hold predominance in the cut flower market.

The Hamiltonians are keeping up the interest of the Canadian Horticultural Society's convention, which will take place in the ambitious city on September 3 and 4. Visitors are assured a rare treat. A very interesting delegates' guide book has been published. Those going via Toronto can get cheap rates to this city, one fare for the round trip, good from September 2 to 12 inclusive, which will be charged by all railroads.

D. J. Sinclair, of the commission house, reports a good summer business. He has worked up a good trade in supplies and wire designs.

Miss Cairn, who has lately started a retail store in Montreal, was a visitor this week.

Geo. Mills has gone to Lake Nippissing for a few weeks' sport with the fish.

James Milne, of Dunlop's, has gone to Maine to visit relatives.

Painters are just redecorating Dunlop's King street store. H. G. D.

BROCKVILLE, ONT.—J. Hay & Son made an assignment August 12 to George A. Dana.

DECATUR, IND.—J. A. Ernshberger, of Delphos, O., is to build a good-sized greenhouse establishment here.

WHITEHALL, MICH.—Thomas Rogers, the eleven-year-old son of Thomas C. Rogers, was accidentally drowned July 29.

GREAT NECK, L. I.—William Gould Browkaw is planting a Japanese garden on his estate here. A force of seventy men is engaged on the landscape work.

New Scarlet "ORIOLE" Carnation....

Strong and healthy field plants, \$12.00 per hundred; \$100 per thousand.

JOHN B. GOFTZ, Saginaw, W. S., Mich.

Latania Borbonica

For growing on. fine plants, 3-inch pots, \$6.00 a hundred.

J. B. HEISS, The Exotic Nurseries, DAYTON, OHIO.

Carnation Plants 50,000 Field-Grown

Including large quantities of the following varieties: Flora Hill, White Cloud, G. H. Crane, Daybreak, Chapman, Eldorado, Maceo, Irene, Guardian Angel, Genevieve Lord and Peru. If you are going to buy, write and get prices before placing your orders. Can make you price we know is right. Stock in fine condition and plants fair size.

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

REVISED LIST OF ROSES ON HAND

Aug. 11, 1902, at GEO. A. KUHLS, Pekin, Ill. Write him.

Table listing various rose varieties and their prices, including METEORS, BRIDES, MAIDS, PERLES, KAISERIN, BE LA SIEBRECHT, GOLDEN GATE, and LIBERTY.

CALIFORNIA Carnations

Our field-grown Carnations are fine plants.

Table listing California carnation varieties and prices, including G. H. CRANE, HILL, WHITE CLOUD, EGYPT, MERMAID, QUEEN LOUISE, GENEVIEVE LORD, TIDAL WAVE, PORTIA, B. ANSTON, AR. YLE, AMERICA, and JOOST.

25 PLANTS AT 100 RATE.

California Carnation Co., Loomis, Cal.

Miss Louise

Faber The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet to 6 inches to 4 feet. Flowers are of a beautiful pink, similar to a well colored Bridesmaid rose and average 2 1/2 inches. Continuous bloomer when once set and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for Jan. delivery.

FICK & FABER, SAN MATEO, CAL.

Please mention the American Florist when writing.

FIELD GROWN CARNATION PLANTS.

Maceo, Gomez, Flora Hill, Joost, Progress and Bradt, \$5.00 per 100; \$40.00 per 1000. Samples by mail 10 cents.

The Albert H. Brown Co., Westboro, Mass.

HERRON....

Carnation Grower,

OLEAN, N. Y.

Please mention the American Florist when writing

We have the largest stock of

ARAUCARIA EXCELSA

in the country. May importation, raised from top cuttings only.

Table listing prices for Araucaria excelsa in different pot sizes: 5-inch pots, 3 tiers, 10 inches and above; 5 1/2-inch pots, 12 to 14 inches; 6-inch pots, 15 to 18 inches.

KENTIA FORSTERIANA and BELMOREANA, 5 1/2 to 6-in. pots, 25 to 30 inches high. .75

FICUS ELASTICA, 5 1/2 to 6-in., 18 to 24 inches high from \$4.00 to \$5.00 per doz.

BOSTON FERNS, 6 inch pots..... .40

Cash with order please. To save express mention if pots to be taken off.

GODFREY ASCHMANN, WHOLESALE GROWER AND IMPORTER OF POT PLANTS,

1012 Ontario Street. PHILADELPHIA, PA.

Chrysanthemum...

TIMOTHY EATON, well-rooted cuttings, \$3.25 per 100. Sample 2, for 50 cts., express prepaid: Plants, \$3.00 per 100, express not prepaid. All healthy and strong.

Geraniums...

1,500 S. A. Nutt, 500 La Favorite, from 2 1/2 and 2-inch pots, mostly 2 1/2-inch, large per cent in bloom or bud, ready shift, \$1.50 per 100; \$14.00 per 1000.

Unrooted cuttings of S. A. Nutt, 70 cents per 100; \$6.00 per 1000. Cash with order.

DES MOINES PLANT CO.,

38th St., Des Moines, Iowa.

'MUMS! ROSES! SPECIAL! Col. Appleton, 2 1/2-inch. \$20.00 per 1000; rooted cutting, \$15.00 per 1000. Maj. Bonnaffon, 2 1/2-in., \$18.00 per 1000; rooted cuttings, \$11.00 per 1000. Our selection in proper proportion of color, 2 1/2-inch, \$20 per 1000; rooted cuttings, \$12.00 per 1000. 100,000 2 1/2 and 3-inch Maids, Brides, Gates and Meteors. 25,000 2 1/2-inch Stevia and rooted cuttings, \$20 and \$12 per 1000. Printed price list furnished on application. Poeschlmann Bros Co., Morton Grove and Chicago, Ill.

Smilax!

Strong Plants, 2 1/2-inch pots ready for benching, \$1.00 per 100; \$10.00 per 1000.

JOHN BROD, NILES CENTER, ILL.

BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.

American Florist Ads

Always do business, week days and every day, Sundays and holidays, all over the country, at home and abroad.

ENCHANTRESS

QUEEN OF CARNATIONS.

Of all Varieties it is the **Largest and Best**



Light pink, deepening toward center, deeper than Daybreak at its best, outclassing all others



Lawson stem and calyx that never bursts, exceeding four inches when full, a free bloomer like the Lawson.



ENCHANTRESS is a Lawson seedling, originated by Peter Fisher, who says: "I consider **ENCHANTRESS** the best seedling I have ever raised, as far ahead of Lawson as Lawson was ahead of everything else when sent out." Delivery of rooted cuttings begins January 15, 1903.

Over 195,000 Already Booked!

12 ...	\$3.00	1,000 ...	\$100.00	5,000 ...	\$450.00
100	12.00	2,500	237.50	10,000 ...	800.00

COME AND SEE IT GROWING AFTER OCTOBER 1.

J. D. Thompson Carnation Co.

Eastern Agent:
PETER FISHER, ELLIS, MASS

JOLIET, ILL.

Minneapolis.

TRADE SHOWS LITTLE CHANGE.—THE APPROACH OF AUTUMN PROMISES GOOD BUSINESS.—GROWERS NEARLY PLANTED UP.—NOTES.

My last report on trade conditions would suffice for this week, but the heated season is nearing an end, and from present indications the coming season will keep us out of mischief. The early asters are about finished, so the surplus is diminished. The heavy funeral trade is falling off. Tea roses and carnations are in limited supply and quality not the best.

S. T. Hopper is reconstructing his range of houses, and his plans are now to build two modern greenhouses. His business has paid handsomely the last season.

Carl Johnson, who has charge of the floral department of the Powers Mercantile Company, reports his trade as holding up in great shape during the summer.

E. Nagel has been quite busy in the store the last week, "Ted," under whose charge this is, being on a vacation.

W. Pier, of the Hilliker Greenhouses, has his roses all benched and carnations nearly all planted.

R. Will has just finished planting three of his carnation houses and they are looking prime.

Frank Kindler, of St. Cloud, has completed the construction of his range.

Otto Will left Saturday for Asheville, also D. O. Pratt, of Anoka, Minn.

C. F. R.

Washington.

VISITORS ENTERTAINED ENROUTE TO THE CONVENTION.—A NICE TRAIN LOAD.

The Washington Florists' Club, rejuvenated for the occasion, met the visitors enroute for the convention and dined them at the National Hotel. The Philadelphians and the New Yorkers, with others, arrived at about four o'clock and 160 enjoyed the club's hospitality. The entire party got off for Asheville at 5:30 on a fine special train of Pullman sleepers.

P. G.

Begonia Rex

Thirty named varieties; strong plants, from 2½-inch pots, \$5.00 per 100.

Carex Japonica Var.

One of the most useful decorative grasses. Makes a pretty plant for the table or conservatory. Now is the time to get your supply for winter. Fine 2½-inch pot plants, \$2.50 per 100.

Cyperus Alternifolius

Bushy, outdoor grown plants in 3-inch pots, extra strong, ready for a shift, \$4.00 per 100.

Violets—Princess of Wales.

Large, field-grown clumps, free from disease. Plant now to get best results, \$5.00 per 100.

Nathan Smith & Son, ADRIAN, MICH.

5,000 SMILAX, extra to close.

500 HIBISCUS, in 2½ to 4-inch.

5,000 SPRENGERI, 2 to 6 inch.

5,000 PLUMOSUS, 2 to 5-inch.

BOSTON FERNS, 4 to 10-inch.

Let us book your order.

GEO. A. KUHL, Pekin, Ill.



Cycas Revoluta

From 25c to \$3.00 each. We have an immense stock to offer and can assure good values.

The GEO. WITTBOLD CO.

1657 Buckingham Pl., Chicago.

Geranium Bargain!

2 inch pot plants at \$1.50 per 100.

Less than 25 of a variety, \$2.50 per 100. All are correctly labeled and they are not stock carried over from last spring, but good long cuttings potted up for September delivery

To be at their best they should be repotted Sept. 1st, and I respectfully solicit orders for that date. Send list of varieties wanted.

Jean Viaud and M. de Castellane at \$2.50 per 100.

SMILAX, a few thousand left at \$1.25 per 100.

BONE MEAL, 200 lb. bag for \$3.50; ton, \$32.50; this is not as cheap as some but it is the best I have ever tried for Florists' use.

ALBERT M. HERR, Lancaster, Pa.

'Mums

We can still furnish the following varieties from 2½-inch pots. Thrifty young plants, well established, ready for immediate shipment. Our

selection of standard varieties, early, midseason and late, \$20.00 per 100; \$12.00 per 500. Reduction from list on large orders.

WHITE.	Per 100	WHITE.	Per 100
T. Eaton.....	\$4.00	Geo. S. Kaulb.....	\$2.50
Ivory.....	3.00	M. Monarch.....	2.50
Willowbrook.....	3.00	Mrs. J. Jones.....	3.00
Nellie Pickett.....	4.00	Queen.....	3.00
Poly Rose.....	3.00	Mrs. H. Weeks.....	3.00
Niveus.....	3.00	Mlle. Lucie Faure.....	3.00
Mayflower.....	3.00		
YELLOW.	Per 100	PINK.	Per 100
Col. D. Appleton.....	\$4.00	Orizaba.....	\$6.00
Philadelphia.....	5.00	Mary Hill.....	4.00
Rebt. Halliday.....	3.00	Lady Playfair.....	2.50
Golden Wedding.....	4.00	Xeno.....	3.00
R. H. Pearson.....	6.00	Maud Dean.....	4.00
Yellow Mayflower.....	3.00	Yanariva.....	6.00
Mrs. E. D. Smith.....	4.00	V.-Morel.....	4.00
October Sunshine.....	3.00	Adele.....	3.00
Mrs. J. Whildin.....	2.50	Lady Harriett.....	1.00
Liberty.....	4.00	J. K. Staw.....	3.00
Eclipse.....	4.00	Glory of Pacific.....	3.00
Modesto.....	3.00		
E. Dailedouze.....	3.00	Red and Bronze.	
H. A. Parr.....	2.50	G. W. Chids.....	4.00
Major Bonnaffon.....	3.00	Intensity.....	4.00
Nagoya.....	3.00	John Pickett.....	6.00
		Lady Anglesly.....	4.00

H. WEBER & SONS, Oakland, Md.

Adiantum Cuneatum.

Clumps for 5-inch pots..... \$6.00

Umbrella Plants, strong, 4-inch..... 4.00

Coleus Thyrsoides, for winter-

blooming, 2-inch, \$4.00; 3-inch..... 6.00

Twenty five at hundred rate.

J. A. WIBE, Box 125, Downers Grove, Ill.

Please mention the American Florist when writing.

CHOICE PAEONIAS

WE have a limited quantity of choice Paeonias suitable for commercial cut flower work, which are named and described as follows:

- (Price for natural divisions 3 to 5 eyes.)
- Lohengrin, deep rose pink, creamy rose center with crimson tips \$2.50 per doz.; \$20.00 per 100.
- Pink Beauty, bright rose pink with silvery rose center. Early. \$2.00 per doz.; \$15.00 per 100.
- Queen Victoria, white; crimson petals in center. \$2.50 per doz.; \$20.00 per 100
- Mont Blanc, snow white guards; center finishing creamy white. Mid-season. One of the best shippers. \$5.00 per doz.; \$40.00 per 100.
- Gigantea, clear silvery rose, 6 to 9 inches diameter. Very early. \$1.00 each; \$9.00 per doz. Two to three eyes.
- Pulcherrima, white, delicately traced rose pink. \$2.50 per doz.; \$20.00 per 100.
- Festiva Maxima, enormous bloom snow white; crimson spots in center. \$7.50 per doz.; \$60.00 per 100.
- Humei, clear soft pink. Best very late pink. \$2.00 per doz.; \$15.00 per 100.
- Paganini, pink with sulphur white center. Large, fragrant. \$2.00 per doz.; \$15.00 per 100.
- Humea Alba, delicate flesh pink; creamy white center, flushed. Price for good roots 2 to 3 eyes \$1.00 each
- Baron de Rothschild, silvery rose, center shaded purplish rose. \$1.00 per doz.; \$8.00 per 100.
- Achilea, very large early bloom, flesh white; fragrant. \$4.50 per doz.; \$35.00 per 100.
- Chrysanthemiflora, deep rose, creamy pink center, deep pink tuft \$4.50 per doz.; \$35.00 per 100.
- Officinalis Rubra fl. pl., the old well known early dark red. \$2.40 per doz.; \$12.00 per 100.
- Officinalis Rosea, double, rosy red \$2.50 per doz.; \$15.00 per 100
- Officinalis Mutabilis, or Alba plena, light satin rose changing to white. \$3.50 per doz.; \$15.00 per 100.
- Officinalis Rosea Superba, enormous bloom, clear rose pink tinted salmon. The earliest pure pink paeonia. Cut blooms sell for double the price of any other paeonia at its season. \$3.50 per doz.; \$35.00 per 100.

3 to 5 eyes save where noted.

Send your orders early. Shipments will be made about the middle of September. Orders will be filled strictly in rotation. First come first served.

The Cottage Gardens, Queens, Long Island, N. Y.

Please mention the American Florist when writing.

PALMS, FERNS, ETC.

We offer Good Values, Saving in Express and Freight to Buyers West of Ohio.

ARAUCARIA EXCELSA.

Size Pots.	Height.	Whorls.	Each.
5-inch	12 inches	3 to 4	\$.75
5-inch	15 "	3 to 4	1.00
5-inch	18 to 20 "	4 to 5	1.25
7-inch	22 to 24 "	4 to 5	1.50
8-inch	28 to 30 "	5 to 6	2.50

ARAUCARIA EXCELSA GLAUCA.

Size Pots.	Height.	Whorls.	Each.
5-inch	10 inches	2 to 3	\$.75
5-inch	12 "	3 to 4	1.00
5-inch	14 "	3 to 4	1.25
7-inch	24 "	5 to 6	2.50
7-inch	26 "	5 to 6	3.00

ARAUCARIA ROBUSTA COMPACTA.

Size Pots.	Height.	Whorls.	Each.
5-inch	10 inches	2 to 3	\$1.25
5-inch	12 "	3	1.50
6-inch	14 "	3	1.75
7-inch	18 "	3 to 4	2.00
7-inch	20 "	3 to 4	2.50
7-inch	22 "	4	3.00

PANDANUS UTILIS.

Size Pots.	Height.	Each.	Doz.	Per 100
3-inch	8 to 10 inches	\$.15	\$ 1.50	\$12.00
6-inch	20 to 22 "	.75	8.00	
7-inch	24 to 26 "	1.00	12.00	

ARECA LUTESCENS.

Size Pots.	Height.	Each.	Doz.
5-inch	18 inches, 3 plants in a pot	\$.50	\$6.00
5-inch	24 " 3 " "	.75	9.00
6-inch	36 " 3 " "	1.50	
7-inch	40 " bushy	2.00	

FICUS ELASTICA—RUBBER TREE.

PERFECT, SHAPELY PLANTS.

Size Pots.	Height.	Each.	Doz.	Per 100
5-inch	12 to 14 inches	\$.50	\$5.00	\$40.00
5-inch	15 to 18 "	.60	6.00	

PANDANUS VEITCHII.

Size Pots.	Each.	Doz.
3-inch	\$.50	\$ 5.00
4-inch	.75	9.00
5-inch	1.00	12.00
6-inch	1.50	18.00
7-inch	2.50	
8-inch	\$3.50 to 5.00	

The above are in fine condition, well colored.

KENTIA BELMOREANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	6	18 to 20 inches	\$.75	\$ 7.50
5-inch	6 to 7	18 to 20 "	.85	9.00
5-inch	5 to 6	22 to 24 "	1.00	12.00
6-inch	6 to 7	28 to 30 "	1.50	18.00
7-inch	6 to 7	30 to 32 "	2.00	24.00
8-inch	6 to 7	36 "	2.50	
8-inch	6 to 7	38 to 41 "	3.50	
8-inch	5 to 6	42 to 44 "	5.00	
9-inch	6 to 7	45 to 50 "	8.00	
10-inch	7	6 feet	15.00	
14-inch tub	7	6 to 7 feet	25.00	

LATANIA BORBONICA.

Size Pots.	Height.	Each.	Doz.	Per 100
5-inch	4 to 5 character leaves	\$.40	\$ 4.00	\$35.00
6-inch	7	.75	9.00	
6-inch	7 to 8 "	1.00	12.00	
7-inch	8 to 9 "	1.25	15.00	
7 and 8-inch	7 to 8 "	2.00		
8-inch	8 "	3.00		

KENTIA FORSTERIANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	5 to 6	20 to 24 inches	\$.75	\$ 9.00
5-inch	5 to 6	26 to 28 "	1.00	12.00
5-inch	5 to 6	30 "	1.25	15.00
6-inch	5 to 6	32 to 36 "	1.50	18.00
7-inch	6	36 to 38 "	2.00	24.00
7-inch	6	40 to 42 "	2.50	
8-inch	6	44 to 46 "	3.50	
8-inch	6	48 to 50 "	4.00	
8-inch	6	51 "	6.00	
8-inch	6 to 7	60 "	8.00	
9-inch	6 to 7	72 "	10.00	
10-inch	6 to 7	6 1/2 feet	15.00	
14-inch	7	7 to 7 1/2 feet	25.00	

CYCAS REVOLUTA.

We can supply fine plants, well rooted, with fine, perfect crowns, in sizes from 3 to 10 lb. stems, at an average price of 40c per lb.

PHOENIX CANARIENSIS

Size Pots.	Height.	Each.
7-inch	24 to 26 inches, stocky plants	\$1.50
9-inch	4 feet, stocky plants	3.00

ASPARAGUS PLUMOSUS NANUS.

We have a very large stock of all sizes.

2 1/2-inch pots	per doz., \$.75	per 100, \$5.00
3-inch pots	1.00	8.00
4-inch pots	2.00	15.00
5-inch pots, very fine,	1.00	30.00
6-inch pots,	6.00	50.00

ASPARAGUS SPRENGERI.

2 1/2-inch pots.	per 100, \$3.50	per 1000, \$30.00
4-inch pots,	per doz., \$1.50	12.00
5-inch pots,	2.50	
6-inch pots,	5.00	

MICROLEPIA HIRTA CRISTATA.

This is one of the best house ferns.

	Per doz.	Per 100
2 1/2-inch pots	\$.75	\$ 6.00
3-inch pots	1.50	10.00
4-inch pots	2.50	20.00
5-inch pots	4.00	30.00
6-inch pots	6.00	50.00

Assorted Ferns for fern dishes, our selection, from 2 and 2 1/2-inch pots, per 100, \$3.00.

CELESTIAL PEPPER, OR CHRISTMAS CHERRY.

One of the best plants for Thanksgiving and Christmas sales. We have a large stock of well grown plants.

3-inch pots, strong,	per doz., \$.75	per 100, \$ 6.00
4-inch pots	1.25	10.00

GERANIUM JEAN VIAUD.

The best of all pink geraniums. Secure stock now.

	Per doz.	Per 100
3-inch pots, strong plants	\$1.00	\$ 6.00
4-inch pots	1.50	10.00

We can supply Geraniums in most all the standard sorts, strong plants, 2 1/2-inch pots, per 100, \$4.00; 3-inch pots per 100, \$6.00.

FIELD-GROWN CARNATIONS.

	Per 100
Wm. Scott	\$ 5.00
Norway	6.00
G. H. Crane	8.00
Estelle	8.00
Mrs. H. N. Higinbotham	12.00

BOSTON FERNS.

Large stock of all sizes pot-grown plants. Write for prices.

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Dreer's Offer of Cibotium Schiedei



If you have never tried this beautiful Fern in fine decorations or as a house plant, you should become acquainted with it at once. Its points of merit are so many that you cannot afford to be without it. It possesses a graceful, delicate habit unlike any other plant and while its appearance is that of being very soft, it is really as hardy as any of the commercial Palms. We have a fine stock of it this season and offer heavy plants as follows:

- 5-inch pots, \$1.00 each; \$10.00 per dozen.
- 7-inch pots, 1.50 each; 18.00 per dozen.
- 9-inch pots, 3.00 each; 36.00 per dozen.

The 7 and 9-inch pots are beautifully finished plants, suitable for decorative work.

Special Offer of Araucarias.

We have in stock about twelve thousand Araucarias, on which we are in a position to offer special values. It will pay you to procure your next winter's supply now and not only gain the benefit of the summer's growth, but also cheap transportation rates, as these plants can be safely shipped by fast freight during the summer months.

ARAUCARIA EXCELSA.

- 5-inch pots, 8 to 10 inches high, 3 tiers.....\$.50 each
- 6-inch pots, 10 to 15 inches high, 3 to 4 tiers..... .75 each
- 6-inch pots, 16 inches high, 4 tiers..... 1.00 each
- 6-inch pots, 20 inches high, 4 to 5 tiers..... 1.25 each
- 7-inch pots, 21 inches high, 4 to 5 tiers..... 1.50 each

ARAUCARIA ROBUSTA COMPACTA.

- 6-inch pots, 10 inches high, 2 to 3 tiers..... \$1.25 each
- 6-inch pots, 12 inches high, 3 tiers..... 1.50 each

- ARAUCARIA EXCELSA GLAUCA.**
- 5-inch pots, 8 to 10 inches high, 2 tiers.....\$.75 each
 - 6-inch pots, 12 inches high, 2 to 3 tiers..... 1.00 each
 - 6-inch pots, 15 inches high, 3 tiers..... 1.25 each
 - 7-inch pots, 18 inches high, 4 tiers..... 1.50 each

HENRY A. DREER, 714 CHESTNUT STREET, PHILADELPHIA, PA.

Ball's Palms

- KENTIA BELMOREANA** 2½-in. pots at \$12.00; 3-in. at \$15.00 and \$20.00 per 100. 4-in. at 30c and 40c; 5-in. at 75c; 6-in. at \$1.00 and \$1.25; 7-in. at \$1.50; 8-in. at \$2.00 each. Several strong plants in a pot, bushy, 6-in. at \$1.00; 8-in. at \$2.00 and \$2.50; 9-in. at \$3.00; 10-in. at \$4.00, \$5.00, \$6.00 and \$7.50.
- KENTIA FORSTERIANA** 2½-in. pots at \$12.00; 3-in. at \$15.00 and \$20.00 per 100. 4-in. 30c and 40c; 6-in. at 75c. Several strong plants in a pot, bushy, 6-in. at \$1.00, 8-in. at \$2.00 and \$3.00.
- ARECA LUTESCENS** 2½-in. pots at \$6.00; 3-in. at \$10.00; 4-in. at \$17.50 per 100. Several in a pot, very bushy, 6-in. at 75c, 75c and \$1.00. 8-in. at \$2.00 and \$3.00; 10-in. at \$4.00 and \$5.00; 12-in. at \$7.50.
- LATANIA BORBONICA** 2½-in. at \$1.00; 3-in. at \$8 per 100. 4-in. strong at 25c; 6-in. at 50c; 8-in. at \$1.50.

Now in splendid condition, fully up to the high standard my plants have attained for general condition and hardiness. Send order early, I will ship them when wanted.

- PHOENIX CANARIENSIS** 8-in. pots at \$2.00 and \$2.50; 10-in. at \$3.00, \$3.50, \$4.00, \$5.00 and \$6.00.
- ARAUCARIA EXCELSA** 8 to 10 inches high, 3 tiers, at 50c; 15 to 18 inches high, 4 tiers, at \$1.00.
- ARAUCARIA ROBUSTA COMPACTA** 16 to 18 inches high, 3 to 4 tiers, at \$2.00; 18 to 20-in. high, 4 tiers, \$2.50.
- PANDANUS VEITCHII** 6-inch at \$1.00.
- PANDANUS UTILIS** 4-in. at 20c; 6-in. at 50c and 75c; 8-in. at \$1.00.
- Cocos Weddelliana, Ficus Elastica, Dracaena Sanderiana, etc.

DESCRIPTIVE PRICE LIST ON APPLICATION.

Chas. D. Ball, Holmesburg, Philadelphia, Pa.

'Dryden'

Geranium, the finest of all bedders, 3½-in. pots, \$6.00 per 100; 2½-in., \$4.00 per 100. Cash please.

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Roses, Palms
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SMILAX Fine plants, worth planting, from 2-in. pots, \$1.50 per 100.
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PAUL MADER, East Stroudsburg, Pa.

PÆONIAS FOR FALL...
10 distinct, best kinds, \$10.00 per 100.

Poels Narcissus, dbl. & sgl., home grown, \$5 a 1000.
Clematis, large flowering, \$2.50 per doz.; \$16 per 100.

SMILAX A few hundred fine heavy plants, one year, \$3 per 100.
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The following strictly high grade varieties, true to name, all from 2½-inch pots: **JEAN VIAUD**, (the pink novelty), \$3.00 per 100; **DUTCHESS OF ORLEANS**, (the variegated wonder), \$3.00 per 100. S. A. Nutt, Beaute Poitevine, Francis Perkins, E. G. Hill, Mme. Bruant, Mme. Jaulin, Athlete, L. P. Morton, Thos. Meelan, Kelway and others, \$2.00 per 100; \$18.00 per 1000.

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We are headquarters for smilax and can supply any quantity. Fine plants from 2½-inch pots, ready for planting \$1.25 per 100; \$10.00 per 1000.

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Arrived in fine condition: **CATLEYA TRIANÆ**. The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

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Orchid Growers and Importers.

Westerly, R. I.

REUTER PRACTICES EARLY PLANTING.—TWELVE CARNATION HOUSES PLANTED WITH STOCK FROM POTS.—ESTABLISHMENT TO BE ENLARGED AND REBUILT.

At the Westerly greenhouses of S. J. Reuter the planting of carnations is being rushed along as fast as possible. Early planting is considered the best and whenever it is possible a house is emptied in the spring and planted from pots. This year twelve of a range of twenty-eight carnation houses are planted with stock from pots. When it is possible to plant early this seems to give the best satisfaction. The entire plant is now devoted to roses and carnations. A full assortment of pot plants and stock for the retail trade is raised in New London, where a branch business is carried on. On account of the new white carnation which will be sent out from this place this year the larger part of the glass is devoted to carnations, with Lillian Pond in the majority.

The summer trade at Watch Hill, a growing fashionable watering place some five miles from Westerly, is on the increase from year to year, making it necessary to run a store there. Recently Mr. Reuter purchased a tract of land comprising twenty seven acres, adjoining his property, which is admirably located for greenhouses, having a gentle slope to the south. On this land a model range of houses for roses will be erected. The old houses in the main range will be taken down and in their place new ones erected for carnations.

There are seven 200-foot houses devoted to roses, including Bride, Bridesmaid, Golden Gate, Ivory, Liberty and Meteor. The stock in these houses is looking in the best of condition and promises well for the coming winter. R. I.

ALEDO, ILL.—Charles McChesney has his new greenhouses practically completed and is moving in the stock.

CLINTON, IA.—John R. Bather is building a new house 25x75 in front of his other houses on Comanche avenue.

JACKSON, MICH.—Wencel Cukierski, former superintendent of parks at Grand Rapids, will likely have charge of the landscape work soon to be undertaken by the park commissioners here.

A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch. \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
KENTIA Belmoreana and Forsteriana, extra clean and well grown plants, 2½, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
REX BEGONIA, 2 and 3-inch \$4 and \$6 per 100.
BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.
FERN, Cordata Compacta, 2 and 3-inch, \$4 and \$10 per 100.
ASPARAGUS Plumosus, 2-inch \$5; 3-inch, \$8. Sprengerii, 2 inch \$3; 3 inch, \$5, per 100.
DRACAENA INDIVISA, 4, 5-in., \$10, \$25 per 100.
ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100.
SMILAX, Vioca Var. 2 inch, \$2.00 per 100.
CAMPBELL VIOLETS, 3-inch, \$4.00 per 100.
FIELD-GROWN CARNATIONS Scott, McGowan, Portia, P achblow, Ethel Crocker, Genevieve Lord, \$4.00 per 100; Prosperity, \$5.00 per 100
 Cash or C. O. D.

GEO. M. EMMANS, NEWTON, N. J.

CYCLAMENS.

Extra fine stock 4-inch, \$12.00 per 100. 5-inch, \$5.00 per 100.

ASPARAGUS PLUMOSUS, extra good, 3 inch, \$7.00 per 100.

ASPARAGUS SPRENGERI, field-grown plants, fine heads \$5.00 per 100.

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SPECIALTIES

ROSES, from 3-inch pots. **In Best**
CARNATIONS, for all delivery, **Varieties**
CHRYSANTHEMUMS,
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Prices Low. Send for List.

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BEGONIA GLOIRE DE LORRAINE,

2½-inch pots, \$15.00 per 100.

Write for prices on large lots. Stock guaranteed absolutely free from disease.

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Begonia Light Pink Lorraine,

For July and Later Delivery,
 \$15.00 per 100; \$140.00 per 1000.

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Burbank's Shasta Daisy Seed, 25c per 100; \$2 per 1000; \$18 per oz.
 Asparagus Sprengerii Seed, \$1.60 per 1000; 5,000 for \$6; 10,000 for \$11.
 Pansy Giant Mixed, \$1 per ounce; \$10.00 per lb.

PLANTS.

Burbank's Shasta Daisy, 2-in., \$ 0 per 100; 3½-inch, \$15 per 100.
 Calla Bulbs, 1st size, \$4 00 per 100.
 Asparagus Plumosus Nanus, fine 2½-in., \$3 per 100; \$25 per 1000. 3½-inch, extra fine, \$5 per 100; \$40 per 1000. 250 plants at 1000 rate. Express prepaid.

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CHINESE, single mixed, fine..... Per 100 \$2.00
 FORBESI, "Baby"..... 2.00
 BECONICA Grandiflora, ready Aug. 10 2 00
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 \$3.00 per 1000..... .60
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2,000, strong, 2½-inch, \$12.00 per 1000; \$1.50 per 100.

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 A pocket full of kicks;
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 Four thousand happy florists--
 Not a bit of trash.
 The stock they show each season
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 'Tis Harry's own selection
 And Paul--he does the rest.

Harry is over in Europe now. He knows the kind of stock the American trade requires and will take nothing else. Paul was at Asheville and showed there what a first-class florist's supplies should consist of. The display included the usual comprehensive collection for which this house has become noted at the annual S. A. F. Conventions and was in itself a liberal education in the development of the florists' trade. If you were unable to go to Asheville or to visit our store, send us your address for an Illustrated Catalogue.

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Published annually by the

American Florist Co.
 324 Dearborn St. CHICAGO.

St. Louis.

CLUB HOLDS SUCCESSFUL MEETING ACROSS THE GREAT RIVER.—OFFICERS ELECTED.—HOST HAS ROSES PLANTED WITHOUT GLASS.—GOOD STOCK.—A PLEASANT EXCURSION.

The August meeting of the St. Louis Florists' Club was held in Edwardsville, at the home of J. F. Ammann, with twenty members and nine visitors present. The annual election was held, with the following result: President, J. W. Dunford; vice-president, George B. Windler; secretary, Emil Schray; treasurer, J. J. Bencke; trustees, John Steidle, C. A. Juengel and F. M. Ellis. Some of the ballots were very close and caused considerable amusement. It was decided to leave the flower show question open until next meeting, but several members are favorably inclined. F. W. Weber, J. W. Dunford and F. J. Fillmore spoke on this subject. The treasurer repaid the second payment on the World's Fair stock to those who had come in. The committee which was appointed to see the telephone companies and have the wholesalers names dropped from the classified list reported that it would be done in the future by both companies. The secretary's report was read and showed that the average attendance had been fifteen, maximum twenty-six, minimum seven, for the past year. Nine meetings were held in the hall and three outside. The treasurer's report showed a surplus in the bank. P. T. Barries will show lantern slides of the Missouri Botanic Garden past and present at the next meeting.

Mr. Ammann has about 25,000 feet of glass, six houses which he is rebuilding this summer using the Dietsch short-span patent. He has two tubular boilers of about thirty-five horse-power which heat his range. The roses have been planted on the benches all summer without glass and they are fine, stocky plants. The Beauties suffered some from rain and weather and have some black spot but he thinks they will come out all right as soon as he has them under glass, which he is having put on by a force of men at present. Mrs. Ammann served refreshments for all.

The St. Louis party to the convention, via Cincinnati, included F. C. Weber, Herman Weber, Geo. Waldbart, John Connon, Mrs. F. C. Weber, Miss Adele Weber, Miss Clara Moss, Miss Rose Windler and Miss Frances Berry, Geo. M. Kellogg, of Pleasant Hill, and J. T. D. Fulmer and Miss Fulmer, of Des Moines. R. J. M.

FOND DU LAC, WIS.—E. Haentze sailed for Europe on the Rhyndam, August 16.

For Sale.

500 Smilax Plants, 3 inch pots.....\$3.00 per 100
1200 feet 1-inch new steam pipe.....
100 Boxes Double Strength A 18x20
Glass.....4.65 per box
25 Boxes Single Strength A Glass 3.00 per box.

—CASH—

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GLAZING POINTS
ARE POSITIVELY
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Over 6,000 pounds now in use.
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slipping. Effective on large
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drive, easy to extract.
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is much needed at this time. It will be of particular
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ous pests at very small cost. The writer is consid-
ered the best authority on this subject in this country
and has left nothing undone to make this the most
complete work of the kind ever published.

GARDENERS AND FLORISTS
have found that vegetables and flowers cannot be
grown under glass without frequent fumigation for
the destruction of insect pests. Hydrocyanic acid
gas has solved this problem. The methods of pro-
cedure are fully described and every detail is given
for generating and applying the gas.

MILLERS AND GRAIN DEALERS
have been looking forward to the publication of this
work, as hydrocyanic acid gas has been found one of
the most important materials for clearing mills and
warehouses of insects. The subject of carbon bis-
ulphide for fumigating mills and elevators con-
taining grain in storage is also thoroughly consid-
ered. To this trade the work is indispensable and
transportation companies have found it of great
value for the fumigation of cars, ships and other
inclosures infested with vermin.

FARMERS OF THE COUNTRY
have here fully described a simple, easy remedy for
gophers, prairie dogs, squirrels and other animals
in the ground, and rats and mice in any inclosure.

COLLEGE AND STATION WORKERS
will find it an up-to-date reference work on this sub-
ject. It is complete in every respect and is the only
work of the kind ever published. It is written in a
popular non-technical style, profusely illustrated,
handsomely bound, covering 250 pages, price, post-
paid, \$1.00.

AMERICAN FLORIST CO.

324 Dearborn St. CHICAGO, ILL.

M. RICE

B. ESCHNER

A. B. C. CODE USED

CABLE ADDRESS

"VANDAL"

PHILADELPHIA

M. RICE & CO.IMPORTERS AND
MANUFACTURERS**LEADING FLORISTS' SUPPLY HOUSE**
918 FILBERT STREET.

Philadelphia, August 16th, 1902.

To the Delegates of the S. A. F.:

Ladies and Gentlemen: Returning from the Asheville Convention we especially invite you to stop off and visit our establishment. Our Mr. M. Rice has just returned from Europe where he has secured some decided novelties. Prominent among these is a new departure in crepe paper. It has the appearance of fine corduroy, having a velvety sheen and lustre entirely different from anything in its line. It is not waxed. It is four ply and two colored, a fine holly red on one side, being green on the other. It comes in all the popular shades and its many combinations of colors will enable the decorator to match both flowers and foliage with one piece of paper. We alone handle this great novelty. A special line of baskets will be found very attractive. There are many other specialties from these importations, things which we will be pleased to show you.

We feel sure to astonish you with the extent of our new stock of ribbons. We have invested thousands of dollars in this line, which contains all the best and most popular shades for florists' work. Every quality and width to suit the demand. An expert is at the head of this department, which is to be one of the features of our business. You will see that our line of staple goods was never in better condition. Our trade in Wheat Sheaves, Cycas Leaves, and Immortelles is second to none in this county, as the prices always favor the buyer on these standard supplies.

Our grand display at Asheville attracted the attention of every visitor, and was voted the finest there.

Yours Very Truly,

M. RICE & CO.,

Leading Florists' Supply House,
918 Filbert St., Philadelphia, Pa.

TO KILL ALL
Greenhouse Bugs
USE
"NICOTICIDE"

Clean and harmless
as Fumigant or Spra.,
Ask your seedsman
for it or write to

**The Tobacco Warehousing
and Trading Co.,**

1000 Magnolia Ave., - Louisville, Ky.

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Gardeners' Chronicle.**

A Weekly Illustrated Journal.

ESTABLISHED 1841.

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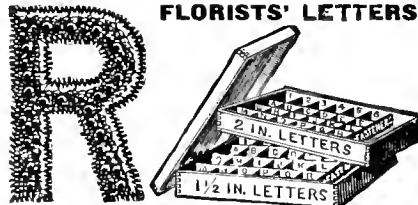
Subscription to the United States, \$4.20 per year. Remittances to be made payable to H. G. COVE.

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41 Wellington St., Covent Garden, London, England.

Boston Florist Letter Co.

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FLORISTS' LETTERS.

This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, \$2.00.
Script Letters \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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KIFT'S Patent ADJUSTABLE VASE HOLDER

No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$2.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nicked, with three clasps for 5 to 6-inch pots, each \$1.75.

KIFT'S Patent Rubber Capped FLOWER TUBES, 1½-inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.

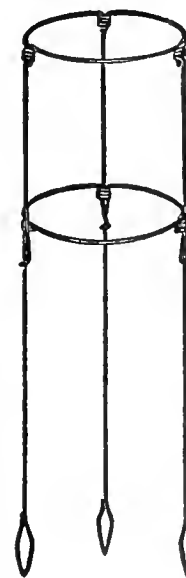
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The Horticultural Trade Journal**THE LARGEST, BRIGHTEST AND BEST**

Horticultural Trade paper in the British Isles. It contains MORE ADVERTISEMENTS, MORE ILLUSTRATIONS and MORE NEWS than any of its contemporaries. Read by the whole of the British trade and all the best European houses every week. Annual subscription, 75 cents. Specimen copy post free. Published weekly.
Horticultural Trade Journal Co., Padham, Lancs., Eng.

NOTICE.

THE MODEL PLANT STAKE COMPANY,
formerly of Brooklyn, N. Y., has removed
to 208 Jersey St., Harrison, New Jersey,
and is now The Parker-Bruen Mfg. Co.

**The Model Extension
Carnation Support.**

Flushing, Long Island,
Dec. 11th, 1901.

MR. THERON N. PARKER,
Brooklyn, N. Y.

Dear Sir— I have used your Wire Carnation Support the last two years. In all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.

Very truly,
A. L. THORNE,
La Fayette, Ind.,
July 8th, 1902.

MR. THERON N. PARKER,
Harrison, N. J.

Dear Sir— After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season. We were much pleased with the simplicity, strength and neat appearance of the support.

Yours truly,
F. DORNER & SONS Co.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.

The Parker-Bruen Mfg. Co.

208 Jersey St., Harrison, N. J.

Los Angeles.

BUSINESS UNUSUALLY ACTIVE FOR THE SUMMER SEASON.—STOCK NONE TOO PLENTHFUL.—PERSONAL DOINGS OF NOTE.—GOTTINGS HERE AND THERE.

In the way of cut flowers everybody expects business to be dull from the time June commences are over until our society people return from the various beaches, but this city is now large enough to keep something doing all the time and this year particularly there is no cause for complaint. Asters and Amaryllis Belladonna are coming in freely. Roses are scarce on account of hot weather. Carnations are rather scarce and, while the blooms are good, most varieties are short-stemmed.

Oliver C. Saakes, proprietor of the Central Park Floral Company, has been in the California Hospital for several weeks suffering from an affection of the eyes. Total blindness was feared for some time but a decided improvement gives hope for entire recovery.

W. A. Peschelt will supervise the grounds and parks of the Southern Pacific Railroad at all their stations on the Los Angeles division. He was head gardener for Senator J. P. Jones at Santa Monica.

F. Edward Gray has finished moving his greenhouses from the nurseries at Alhambra to his city location, corner Main and Adams streets, and expects shortly to have all in first-class running order.

J. F. Mendenhall, at present superintendent of Los Angeles city parks, has announced he will not be a candidate for re-election to that position, but aspires to be city assessor.

The city of Pasadena, having voted bonds and secured property for parks, is now offering a prize of \$400 for the best plan for improving the grounds.

J. W. Wolfskill reports his stock progressing finely on his Boyle Heights property, where his new range of greenhouses is nearly completed.

Rees & Compere, the bulb growers, have purchased eight acres of land near Long Beach and are moving to that place.

The Germain Plant and Seed Company reports this the most prosperous summer season on record.

C. A. Hovey, of South Pasadena, is exhibiting some remarkably fine gladioli. D. R. W.

CUT FLOWER BOXES

WATERPROOF. Corner Lock Style.

The best, strongest and neatest folding cut flower box ever made. Cheap, durable, handy. To try them once is to use them always.

DON'T USE OLD STORE BOXES.

If you have any doubt, send for samples, which speak for themselves.

Size No. 1.	3x4 1/2 x 16.	\$1.75 per 100;	\$15.00 per 1000
" No. 2.	3x6x18	2.00	18.00 "
" No. 3.	4x8x18	2.40	22.00 "
" No. 4.	3x6x20	2.75	25.00 "
" No. 5.	4x8x22	3.00	28.00 "
" No. 6.	4x8x28	3.75	35.00 "

THE LIVINGSTON SEED CO.

Box 103, COLUMBUS, O.

WE NOW OFFER

"Chemicals"

for making LIQUID COMPOST. Dry powders all soluble in water. Composts cost less than 1/2c per gal. Correspondence invited.

EASTERN CHEMICAL COMPANY, 620 Atlantic Ave., Boston.

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Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

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GEO. KELLER & SON,

MANUFACTURERS OF

FLOWER POTS.

Before buying write for prices. 361-363 Herndon Street, near Wrightwood Ave., CHICAGO, ILL.

FLOWER POTS

ALL KINDS.

STANDARD POTS SPECIALTY

List and SAMPLES FREE.

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WRITE

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Standard Pots

which for strength and porosity combined are the best on the market.

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"STANDARDS"

FULL SIZE AND WIDE BOTTOMS. BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'FY,

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Colesburg, Iowa.

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STANDARD FLOWER POTS!

Packed in small crates, easy to handle.

1500 2-in., in crate, \$4.88	120 7-in., in crate, \$4.20	Price per crate	Price per crate
1500 2 1/2 " " 5.25	60 8 " " 3.60		
1500 2 1/2 " " 6.03	48 9-in., in crate, \$3.60		
1000 3 " " 5.00	48 10 " " 4.80		
800 3 1/2 " " 5.80	24 11 " " 3.60		
500 4 " " 4.50	24 12 " " 4.80		
320 5 " " 4.51	12 14 " " 4.80		
144 6 " " 3.16	6 16 " " 4.50		

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

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Manufacturers of Standard Flower Pots, red in color, equal to the best on the market; are 16 miles from Philadelphia, best of railroad connections. We give special attention to mail orders and make special sizes to order in quantities. A postal will bring prices and discounts.

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SAMPLE POT AND PRICE LIST ON APPLICATION.

G. C. POLLWORTH CO., MILWAUKEE, WIS.

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Importer and Manufacturer of

FLORISTS' SUPPLIES

Looking for Fall Novelties? LOTS OF THEM ON EXHIBITION. 108 W. 28th Street, New York.

FOR SOMETHING NEW AND NICE

"Cluster of Roses Stationery"

for Florists, is the latest. Both plain and in colors. Samples free by DAN'L B. LONG, Publisher, BUFFALO, N. Y.



**MODEL
EXTENSION
CARNATION
SUPPORT**

Made with two or three circles. Endorsed by all the Leading Carnation growers as the best support on the market.

Pat. July 27, '97, May 17, '98

Prompt Shipment
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KILLS ALL INSECT LIFE.

Fertilizes and Invigorates Flowers,
Plants, Shrubs, Etc.

PRICES LOW.

We Help You Sell It.

Write for sample cake and full
particulars.

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NIKOTEEN
IT COSTS 4 CENTS FOR EACH 600 FEET OF
FLOOR SPACE

DOES NOT INJURE THE MOST SENSITIVE
PLANTS - ENDORSED BY PROMINENT FLORISTS -
USED FOR FUMIGATION OR SPRAYING INDOORS OR
OUT - 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN
SOLD BY SEEDSMEN - CIRCULAR FREE -
SKABKURA DIP CO. CHICAGO.

Kill AND SAVE THE BLOODS
QUICKLY DOES IT.

BOSTON AND RETURN, \$19.00

VIA THE WABASH.

On account of the meeting of the Brotherhood of St. Andrew, the Wabash road will sell excursion tickets from Chicago to Boston, October 7 to 11, at one fare (\$19) for the round trip. By deposit and payment of 50c the limit may be extended to Nov. 12. Write for maps and time tables. F. A. Palmer, A. G. P. A., 97 Adams St., Chicago, Ill.

THE KINNEY PUMP.

For applying liquid manure it has no equal. Sent prepaid for \$2.00.

THE HOSE CONNECTION CO., Kingston, R. I.

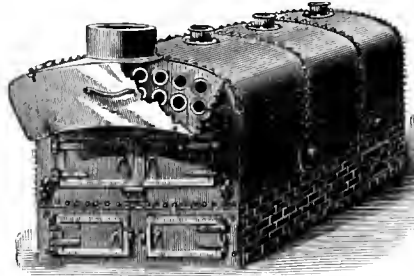
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**Greenhouse
Material and
Hot Bed Sash.**

REMEMBER it costs you nothing to get our Sketches, Estimates and Catalogue.
We use only the very best material air dried and free of sap.

FOLEY MFG. CO.
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KROESCHELL BROS. CO.
IMPROVED
Greenhouse Boiler,
45 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

CYPRESS
IS FAR MORE DURABLE THAN PINE.
**CYPRESS
SASH BARS**
UP TO 32 FEET OR LONGER.
GREENHOUSE
AND OTHER BUILDING MATERIAL.
MEN FURNISHED TO SUPERINTEND
ERECTION WHEN DESIRED.
Send for our Circulars.
THE A.T. Stearns Lumber Co.,
NEPONSET, BOSTON, MASS.

Horticultural Builders & Heating Engineers

PHILLIPS MFG. CO.,

Tel. 1851 Bergen. Jersey City, N. J.

In 1900 we built 5,726 square feet.
In 1901 " 21,276 square feet.
In 1902 " to date 14,962 square feet.
Have orders for 19,600. This should convince you we are progressive and up-to-date. See the range we are building for S. Untermyer, Esq., Greystone, Yonkers, N. Y.; conceded by practical authority to be a perfect type of greenhouse. Call us up.



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CHALLENGE
VENTILATING
APPARATUS**

WRITE FOR ILLUSTRATED CATALOGUE
QUAKER CITY MACHINE WORKS
5555 RICHMOND, IND.

**Bargains
FOR
Florists.**

We are headquarters for a general assortment of the necessary material and supplies that you are looking for. If you are about to improve or construct, consult us.

In connection with the dismantling of the Pan-American Exposition, we have for sale:

20,000,000 FEET of fine seasoned lumber, practically new, consisting of all sizes of joists, timbers, dressed and matched boards and flooring; also sash and doors.

50,000 FEET of roofing glass.

PIPE.

We are headquarters for pipe. We offer you:

100,000 FEET of 2 to 4-inch wrought iron, lap welded casing. We can furnish this material in three ways: Either with sleeve or jacket couplings, screwed ends and threaded couplings or with expanded cast iron flanges with bolts and nuts.

1,000,000 FEET of standard black wrought iron pipe, size 3/8 to 12-inch. It is second-hand but has new threads and couplings and is in first-class condition.

1,000 TONS of galvanized wire 9, 10, 11, 12, 13, 14 and 15 guage.

50,000 FEET of 2, 3 and 4-inch cast-iron soiled pipe and fittings.

100,000 FEET of garden hose, 3/4 and 1-in.
75,000 FEET of cotton rubber-lined fire-hose, (rubber-lined in and outside), ranging in sizes 1 to 2 1/2-inch.

VALVES and fittings of every kind.

BOX COILS for heating purposes.

RADIATORS, new and second-hand.

We also offer the following bargains in

Heating Boilers

50 CAST-IRON sectional heaters, capacity from 450 to 5,000 feet.

1 NO. 2 Standard Kroeschell hot water heating boiler.

FOUR 36x10 Horizontal Tubular.

FOUR 36x12 Horizontal Tubular.

FIVE 42x10 Horizontal Tubular.

FIVE 42x12 Horizontal Tubular.

SIX 48x14 Horizontal Tubular.

TWO 54x16 Horizontal Tubular.

FOUR 60x16 Horizontal Tubular complete with all fittings.

PUMPS of all Descriptions.

A carload of shovels and spades that we are selling at \$5.00 per dozen.

We carry a complete stock of hardware and farm implements, besides plumbing material of every kind.

Write for Catalogue No. 47.

Chicago House Wrecking Co.,

W. 35th and IRON STS., CHICAGO.

Pittsburg.

SUMMER SEASON SEEMS DULL BUT SALES EXCEED LAST YEAR'S RECORD.—DOINGS OF THE GROWERS.—MANY ON VACATIONS.—NOTES.

In general, summer business is dull but the month of July and the three weeks of August will show a satisfactory increase over the same period of last year. The seed and bulb dealers say that the spring and summer business surpassed their anticipations, and the same sentiment is expressed by nurserymen and growers of bedding plants.

J. W. Dudley & Son, of Parkersburg, W. Va., will add 20,000 feet of glass to their plant. They operate four boilers and use both coal and natural gas for fuel. They are going in strong on Beauties this year and have also planted 20,000 carnations, mainly Lawson, Hill and Nelson.

"Billy" Lowe spent a few days at Atlantic City and then went to Asheville to attend the convention. Mr. Burke, Mr. Reineman and Mr. Nelson are also in attendance at the convention.

Walter Carney, of Homestead, has been offered the chieftainship of the Whittaker volunteer fire department.

Edward McCallum and Wm. Potter, of the Pittsburg Cut Flower Company, have returned from Green county.

The florists now in Atlantic City are Miss McKinley, L. I. Neff, John Orth, John Boldinger and Oliver Beet.

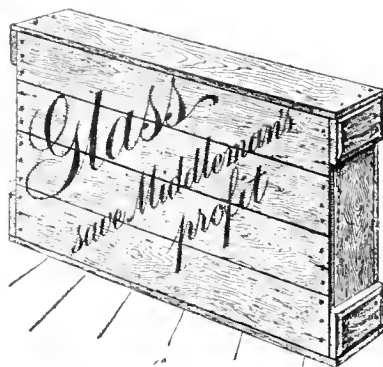
Julius Ludwig went to Rochester and Buffalo on business. He will visit Atlantic City, New York and Boston.

Mr. and Mrs. Elliker, of Homestead, have returned from New York.

E. L. M.

WICHITA, KANS.—A. Ellis, who has been visiting at his former home, Keene, N. H., returned early in the week.

SO. BETHLEHEM, O.—Charles Vorkeller, formerly of Allentown, Pa., has rented the place and bought the stock of R. B. Williams, who will retire and probably visit his old home in Wales, after an absence of thirty years.



"Most perfect results obtained under FRENCH GLASS."

Established 1847.

SEMON BACHE & CO.

7, 9, 11 Laight Street,
NEW YORK.

FRENCH GLASS

Direct shipment from abroad.



New Twin Section Boiler.

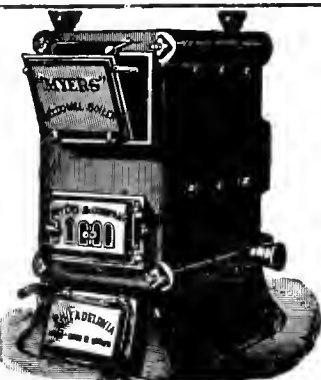
Clear Gulf CYPRESS GREENHOUSE MATERIAL. Glass AND Boilers

S. JACOBS & SONS, 1366 to 1373 Flushing Ave., BROOKLYN, N. Y.

Estimates furnished for Erecting.

Send 4 cts. for Boiler Catalogue.

GET OUR PRICES BEFORE ORDERING.



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ESTABLISHED 1849.

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Greenhouse Boilers.

Iron Bench Frames.

Send for catalogue and latest prices.

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The putty that stays where you put it.
The putty that paint sticks to.

The putty that does not rob paint of its oil

The putty that does not evaporate.

The putty that does not discolor white or light tints.

The putty for Florists.

The putty for Nurserymen.

The putty for you.

Glass

Lucas Glass is the best for Green or Hot Houses.
Let us quote you prices.

JOHN LUCAS & CO.

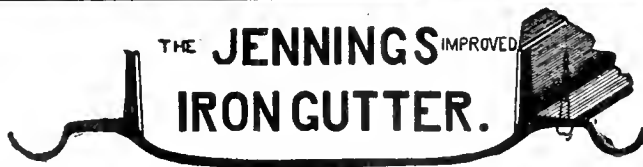
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GREENHOUSE MATERIAL OF EVERY DESCRIPTION

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Use our Patent IRON BENCH FITTINGS and Roof Supports.

THE JENNINGS IMPROVED IRON GUTTER.

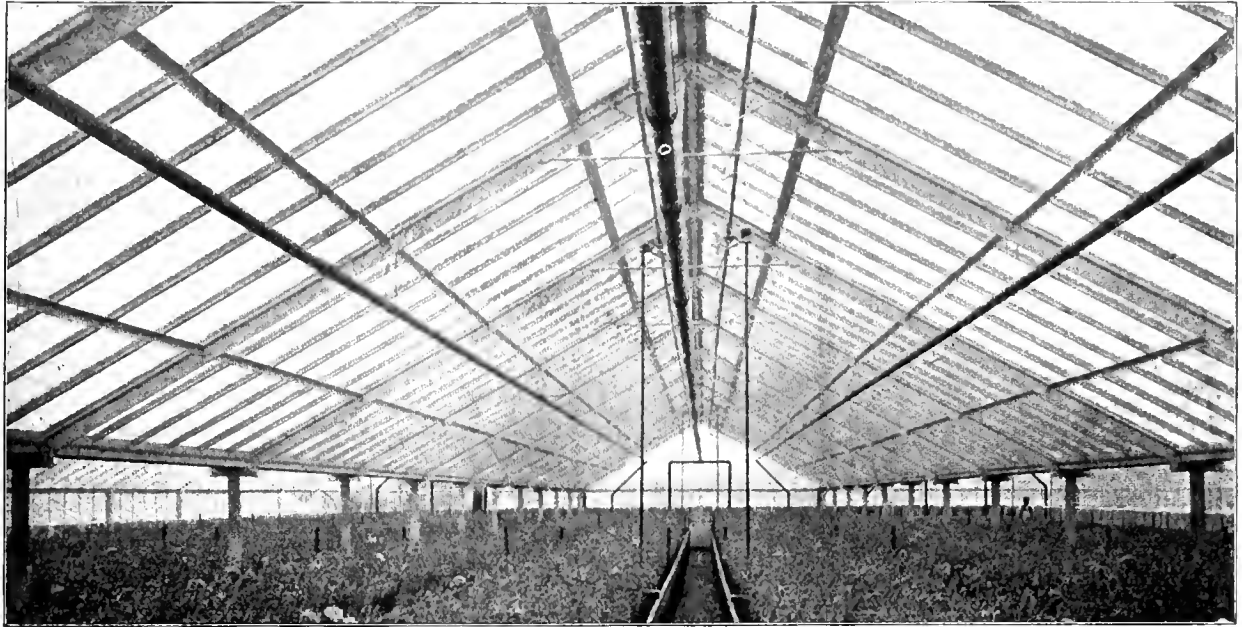


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For Tobacco Extracts, Etc. Send for Circulars.
DILLER, CASKEY & CO., SUCCESSORS TO JENNINGS BROS., 8. W. Cor. Sixth and Bark Sts., PHILADELPHIA.

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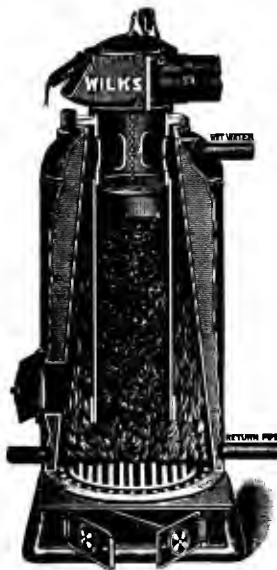
HORTICULTURAL ARCHITECTS AND BUILDERS AND MANUFACTURERS OF HEATING AND VENTILATING APPARATUS.



THE ABOVE ILLUSTRATES OUR IRON CONSTRUCTION WITH IRON GUTTER, MADE IN LENGTHS UP TO 25 FEET. FROM A PHOTOGRAPH OF THE CRESSBROOK GREENHOUSES, FALL RIVER, MASS.

For further information address

THOS. W. WEATHERED'S SONS, 56 Marion St., New York.



WILKS Hot Water Heaters.

Best made for Greenhouses. SELF-FEEDING MAGAZINE. All Steel. Simple, strong, durable. Send for Catalog, etc. S. Wilks Manfg. Co., 53 to 55 N. Clinton St. CHICAGO.

MASTICA

FOR Greenhouse Glazing

USE IT NOW.

F. O. PIERCE CO.
170 Fulton St.,
NEW YORK



The Standard



The highest running, most rapid and powerful ventilating machinery in the market.

Duplex Gutters.

Made of wrought or cast iron with self adjusting sash bar clips. The only Drip Proof Metal Gutter offered to the Public. Send for my catalogue free.

E. Hippard,
Youngstown, O.



WATER.

If you want water only when the wind blows a windmill will do your work and cost less money than our Rider and Ericsson Hot Air Pumps, but if you want water every day while your flowers are growing and do not want your pump blown down when the wind blows too hard, no pump in the world can equal ours. We have sold about 20,000 of them during the past twenty-five years, which is proof that we are not making wild statements.

Our Catalogue "A 3" will tell you all about them. Write to nearest store.

Rider-Ericsson Engine Co.

35 Warren St., NEW YORK. 692 Craig St., MONTREAL, P. Q. 40 Dearborn St., CHICAGO.
239 Franklin St., BOSTON. Teodoro-Rey 71. HAVANA, CUBA. 40 N. 7th St., PHILADELPHIA.
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H. M. HOOKER CO.

Window Glass, Paints and Putty,
Greenhouse Glass a Specialty.
59 West Randolph St., CHICAGO.



Invalid Appliance Co.,
MANUFACTURERS OF
COLUMBIA PLANT TUBS
"The kind that never fall apart."
If your seedman doesn't handle them,
order of us direct.
FACTORY AND OFFICE:
150-150 WEDDER ST., CHICAGO.
12, SPRING NORTH 223

Lowell, Mass.

WEEK OF BRISK BUSINESS SUCCEEDED BY DULL SPELL.—WEATHER VERY COOL.—STOCK LOOKING WELL.—PERSONAL AND TRADE NOTES.

Last week there was business all along the line but now there is nothing doing and with the thermometer standing at 65° most of the time it is pretty hard to keep warm. The cool weather is keeping the lawns in beautiful shape. Just now there is a tremendous supply of rudbeckias, which have no selling value. Gladioli and asters are still pouring in by the thousands and the latter are very good. Sweet peas are in large supply and do not sell above \$1 per thousand. Roses are short in stem, but the buds are good and the price is small, so that even matters up.

The oldest flower store in town, established by E. Sheppard & Sons, will soon be a thing of the past. C. L. Marshall, who has been occupying it for several years, will vacate to make room for the gas light people, who will use it for their down town office. Marshall will locate on Central street.

During Patton's absence his store has been made spick and span, having been subjected to several coats of white paint, touched up here and there with a dash of gold. Burt, who is located next door, has done likewise.

One of the questions of the day is as to where we will get coal this winter, and how to pay for it at \$10 per ton. One grower has been talking of changing his fuel to oil.

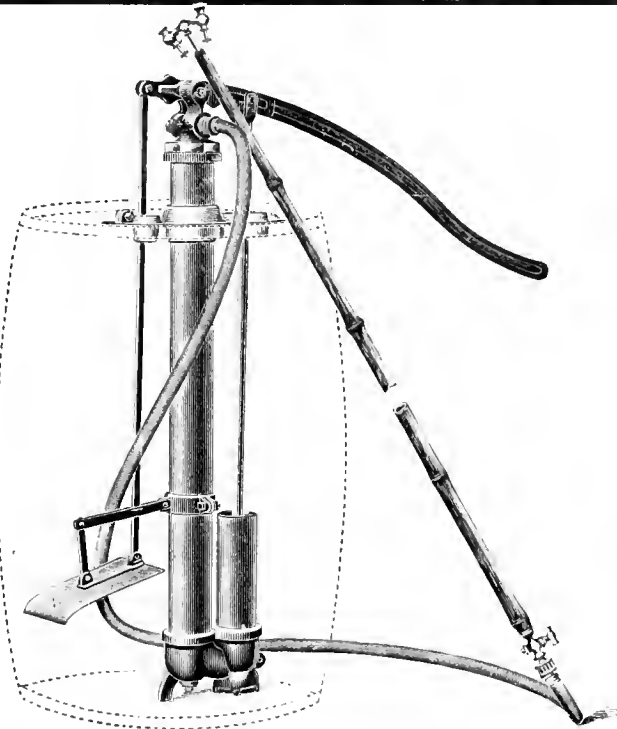
Thos. Waterworth, gardener at the Ayer estate and for E. H. Allen, is now assistant superintendant at the Lowell Cemetery.

After spending several weeks in England, John Haynes arrived home last week, looking the picture of health.

P. R. Burt has gone to Caanan, N. H., to look at a sixty-acre farm he contemplates buying.

Whittet & Company are very busy rebuilding two of their carnation houses. A. M.

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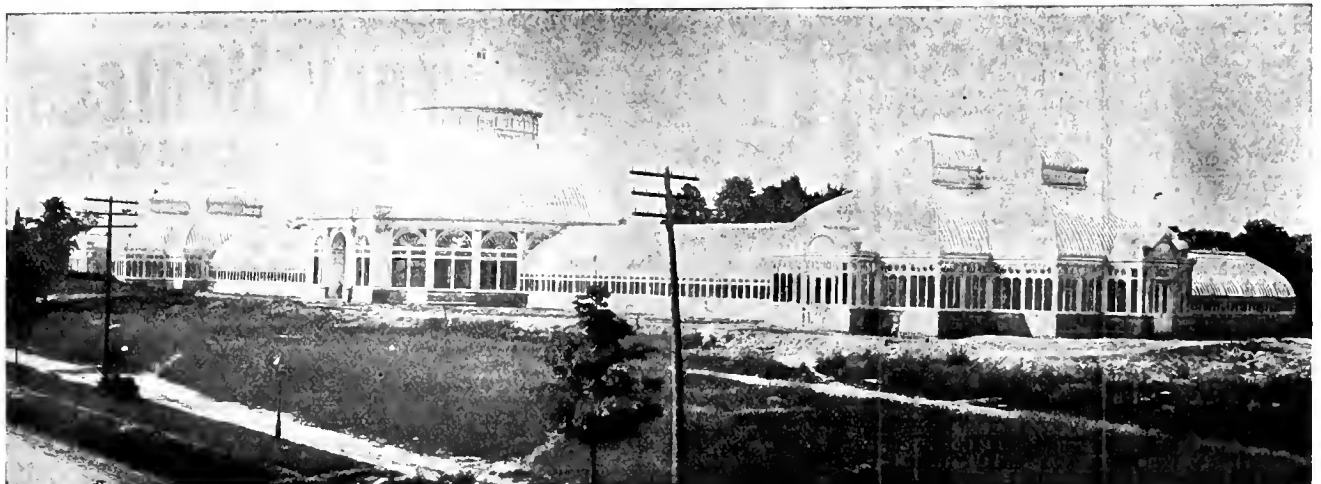
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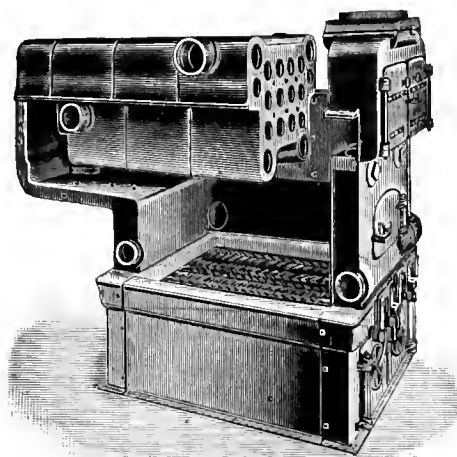
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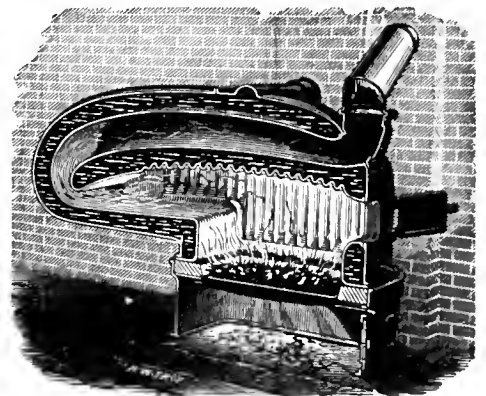


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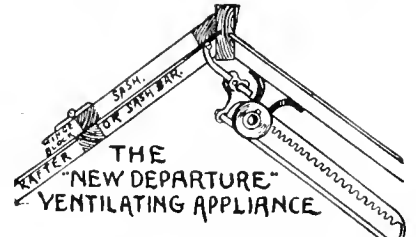
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Vol. XIX.

CHICAGO AND NEW YORK, AUGUST 30, 1902.

No. 743.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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Seasonable Plant Notes.

The month of September is an important one to the plant grower, whether he be a grower of flowering plants or handling those that depend upon the beauty and grace of their foliage to secure them a place in the plant market. This month may be termed high tide in the season of growth of many of our commercial plants, and it also marks the beginning of the season of selling in quantity to those who grow plants for the wholesale trade.

There is a great difference in the atmosphere as the nights grow longer, the air usually containing a large proportion of water, or rather the great difference in temperature between day and night makes the condensation of the moisture more apparent, and in consequence it is good practice to have all watering in the greenhouses done earlier in the day, so that the surplus water may be evaporated before night. After September 1 we find it most satisfactory to have the watering done between 9 a. m. and noon, and also that plants in general do not require nearly so frequent waterings at this season as are found necessary in the early summer. This rule holds good until the fires are started for the winter, after which the plants will naturally dry out much more. We also find it best to keep the shading in fairly complete condition over the palms and other foliage plants at this time, for the sun still has much power, and while one is now safe with comparatively light shading on the east side of a house of foliage plants, there is still danger from the west side of the house, for there are very few houses built with perfect glass.

It is a well-known fact to those who handle many palms that a plant that has been grown in a comparatively light house, given a reasonable amount of sunshine and plenty of fresh air during the summer has much more enduring foliage than one that has been grown under heavy shade, but the buyer will take the shade-grown plant in nine cases out of ten on account of its rich, dark green color, and as a natural result the growers are governed accordingly. A plant of *Areca lutescens* that is grown under natural conditions of light and air has quite bright yellow footstalks to its leaves, but the buyer is likely to be unappreciative of this point of beauty, and to take the green-stemmed and dark-foliaged plant in preference, regardless of the fact that the foliage of the latter is likely to be much more tender.

The Boston ferns will require only light shade now, and also an abundance of air and water, for when kept too close the fronds will grow long and thin and fall over too much, a well grown plant being not only nicely furnished around the bottom, but also having the center well filled with more upright fronds. To grow such plants it is needful to give them plenty of room to develop. Those thin, straggling plants will not produce the same profit from a given space of bench that may be had from a lot of stout and sturdy specimens, even though there may be a greater number of the thin kind produced per house.

It is the experience of those who handle old plants of *Ficus elastica* for cuttings that these stock plants gradually lose their vitality with repeated croppings for cuttings, and it is a good plan to renew the stock in the course of two or three years. Where this cannot conveniently be done, the old plants may be renewed in vigor to a great extent by planting them outdoors in the open ground for the summer, giving them a good rich soil and frequent cultivation, and if the season be a dry one it is a good plan to have them within reach of the hose so that the plants shall not suffer from lack of moisture. The ficuses may be planted out during the latter part of May or beginning of June and remain until there is danger of frost, when they should be lifted and potted up, and will have secured a fresh lease of life from their summer experience and will produce an abundance of new growths suitable for cuttings.

Old plants of *Pandanus Veitchii* may also be treated in much the same way and will frequently start a fresh crop of cuttings by autumn from the dormant eyes of the stem, and as one seldom gets more cuttings of *pandanus* than are needed, this extra crop may prove valuable.

Easter lily bulbs will soon be in the market, the early deliveries coming to hand during the month of September, and while it is frequently said that "the early bird catches the worm," it is also sometimes said that the early bird among lily growers catches too many worms for the welfare of his bulbs, and that it would pay him better were he not to insist on too early delivery of his bulb order. In the light of past experience this seems to be reasonable advice, for there is but little doubt that some of these lilies are dug before they are fully matured, and the later shipments of a

reliable dealer may prove much more satisfactory.

Easter of 1903 falls upon a late date, being the second Sunday in April, and there ought not to be any great difficulty in getting in the flowers on time; in fact there may be some risk of getting them too early. The practice of potting up Easter lilies in small pots has frequently been referred to in these columns but is worth remembering on account of the saving in space and also in permitting the weeding out of any diseased or unsatisfactory plants before they are finally potted into the pots in which they are to bloom. But whatever may be the practice in regard to potting, there is one safe rule to observe and that is to pot up these bulbs as soon as they are received, for any and all lily bulbs are liable to suffer from prolonged exposure to the air.

There is still time to shift on various young palms and other decorative stock and to get them well established before winter sets in, perhaps the greatest obstacle just now being lack of space for such operations, a condition that is hard to remedy just at this season, while seedling stock is pressing for attention and the larger plants are cramped for space.

This is the time of year when an additional range of glass looks especially enticing were it not for the prices that are exacted by our various infant industries for the material required by the hard-working grower, for with the stock in the houses already crowded and lots of plants that must be lifted from the open ground and brought under shelter before frost it gets to be quite a perplexing problem for the greenhouse man.

It is taken for granted that greenhouse repairs are concluded before this, but if not there should be no further delay, for there is more difficulty in glazing and painting satisfactorily on account of moisture than there is earlier in the season. W. H. TAPLIN.

A Pillow of Summer Stock.

The aster season is at its height and in this connection there will be interest in the accompanying picture, a reproduction from a photograph of a floral design

made not long since by the George Wittbold Company, Chicago. It is a simple affair, yet an effective hot weather design. The material used is such as is likely to be at hand at any moment in almost every flower store all through the heated term. For covering the moss in the frame a few ferns were required and this was supplemented by adiantum and Sprengerii, which add much to the fresh, bright appearance of the whole. The flowers used were a few asters, a handful of open roses and a few bunches of light colored sweet peas. One of the most expert flower workers in the country says that "when the customer has no preference always sell a pillow; you can use almost anything in it with good effect." Certainly this is a good showing for little money.

The Self-Fastening Virginia Creeper.

An article appeared in the AMERICAN FLORIST, for August 16, on the Virginia creeper, which interested me very much. At Ottawa we have a native self-fastening variety growing wild in this vicinity and under cultivation here which is giving great satisfaction and which I believe to be superior to *Ampelopsis Englemanni*. The latter has been growing in the Botanic Garden here since 1895, but was not compared with the native variety as a climber until this year, when some additional plants of *A. Englemanni* were sent to us from the Agricultural Experiment Station, Ames, Ia. In the report of the Dominion Experimental Farms for 1900 a popular description was given of the native variety by the writer, under the name self-fastening Virginia creeper, *Vitis quinquefolia hirsuta*. This variety was also referred to by Dr. Wm. Saunders, before the Ontario Fruit Growers' Association, some years ago. Can this be the same variety referred to by Donn as *Ampelopsis hirsuta*, by Pursh in 1814 as *Cissus hederacea* var. *hirsuta* (Pursh Vol. I, 170), and by Torrey and Gray as *Ampelopsis quinquefolia* var. *hirsuta* (1838-40, Vol. I, 245)? Both Pursh and Torrey & Gray gave Allegheny mountains as the habitat.

The common form here has large, glossy, deep green, smooth leaves, long tendrils, and is practically without discs.

The variety *hirsuta* has smaller, rather dull green leaves, downy above and beneath, and is furnished with short tendrils and large discs which cling tenaciously to bricks and stone and on wood in shady places or where protected by the leaves. It is much neater than the ordinary form and requires practically no attention as regards training. The leaves color highly in the autumn. The principal points of difference noted here between *Englemanni* and *hirsuta* are: *Englemanni* has fewer discs in a cluster than *hirsuta*, the greater number of discs and greater clinging powers of the latter variety giving it an advantage over *Englemanni*. The dentations of the leaflets of *Englemanni* are deeper than those of *hirsuta*, and the petioles longer and usually reddish in color.

W. T. MACOIX.

Last of the Boston Weekly Shows.

The last of the free weekly exhibitions given during July and August by the Massachusetts Horticultural Society was held on August 23, when the main exhibition hall was nearly filled with exhibits. Asters were a special feature in its schedule and were shown more extensively and of better quality than for some years, the cool, damp summer having suited them. For fifty vases of large-flowered varieties, all classes admissible but not less than twelve varieties to be shown, F. A. Blake and W. Whitman were the winners. For Victoria and pæonia-flowered Joseph H. White, James Wheeler, gardener, had the best display, followed by W. Whitman and F. A. Blake. E. S. Converse, D. F. Roy, gardener, showed the best *Temple's* and W. Whitman led in the pompon class.

Hardy herbaceous plants filled three large tables, the Shady Hills Nursery Company having the best display of thirty varieties, closely followed by Carl Blomberg. Some of the best herbaceous plants shown were the following: *Helianthus rigidus* Miss Mellish, *H. mollis*, *Lilium Henryi*, *L. Wallacei* and *L. Leichtlini*, *Callirhoe involucrata*, *Liatris pycnostachya*, *Scabiosa Caucasica*, *Stokesia cyanea*, *Rudbeckia purpurea*, *Veronica longifolia subsessilis*, *Aster Novæ-Angliæ alba*, *Physostegia Virginica*, *Lobelia cardinalis* and *Chelone Lyoni*.

Numerous miscellaneous exhibits were staged and received gratuities. Arthur Cowee had 300 spikes of Groff's hybrid gladioli and received honorable mention for same. The varieties were good but spikes rather small. F. J. Rea and W. Whitman each had a fine table of gladioli. W. P. Lothrop made a grand display of cactus dahlias which attracted much attention. Geo. Hollis showed phloxes in variety and other exhibitors had promiscuous displays.

J. E. Rothwell, Emil Johannsen, gardener, showed an interesting seedling orchid, *Lælio-cattleya* *Edmond Rothwell*, (*Cattleya amethystoglossa* × *Lælia cinnabarina*) which carried a four-flowered inflorescence and was awarded honorable mention.

There was a first-class display of fruits, the apples, pears and peaches being excellent, while the celery and cauliflowers among the vegetables were very fine. The Boston Mycological Club showed over 100 varieties of fungi, and Mrs. Grinnell fifty-two varieties, the latter winning for the best display of edible mushrooms. Four large tables were filled with the fungi exhibits and they were the leading attraction in the exhibition.

W. N. CRAIG.



A PILLOW OF SUMMER FLOWERS.



HAMILTON

Where Canadian ...Florists Meet

HAMILTON, the city in which the Canadian Horticultural Association will meet next week, is almost four times the size of the Mecca whence the S. A. F. pilgrims are but just returned. It is the second city of the Province of Ontario, the third in the Dominion, and one of the most beautiful on the American continent.

Hamilton is northwest from Buffalo, almost due west from Toronto and about equally distant from each. Splendidly located on Hamilton Bay, it has made a most phenomenal growth. In 1870 the population was 26,716 and the property assessment for taxation \$9,362,152. In 1900 the population was 51,561 and the value of property returned by the assessors \$26,099,115. To-day the population is 55,000, a people of wealth, refinement and taste, who have surrounded themselves with the comforts of life and have a city of which they are proud. Here the question of municipal ownership has been practically solved, though not carried to any great extent. Some years ago the city acquired the water works, at a cost of \$1,750,000, but it has proven a good investment, for with excellent service, the surplus revenue is now taking care of the interest on the entire city debt, some little more than \$3,500,000.

The city of Hamilton has its own peculiar beauty, situated as it is at the foot of a mountain and almost surrounded by water. Its shaded streets are cool and clean. The trees are luxurious and the pavement one which has attracted widespread attention. The material is tar macadam and its use gives the streets a fine appearance, while it is at the same time durable and economical.

The mountain is the first point to which the Hamiltonian directs the visitor and the view is one not soon to be forgotten. The trip is made by rail. It is a most delightful ride and when one reaches the summit he beholds a sight not easily surpassed for loveliness. The wide streets, straight, regular and well paved, shadowed by rows of majestic elms, stretch out for two miles, from the foot of the mountain to the bay, the churches, with their tall steeples, the factories, for it is a factory town, the blocks of business houses, the mansions of luxury and the pleasant homes of the artisans, look like the ranks of chessmen on a gigantic checkerboard, while in the far eastern distance the spires of Toronto are visible on a clear day. In the valley are some of the finest fruit lands in the world, a landscape of peace, prosperity and content.

Hamilton has two markets, the largest being immediately in the rear of the city

hall, and on any Tuesday, Thursday or Saturday in summer the horticulturally inclined visitor will find here something of interest. Dundurn Castle and park are now owned by the city. The park is a beautiful spot, of thirty-two acres, and



CITY HALL, HAMILTON, ONT.



A GLIMPSE OF HAMILTON, ONT.

(Where the Canadian Horticultural Association meets.)

here may still be seen breastworks built for defense against the Americans in 1812. The city has eight other parks.

Hamilton has a live Gardeners' and Florists' Club and on its rolls are over ninety per cent of those connected with gardening and floriculture in the vicinity. The officers are: President, Fred. Turner; vice-president, J. C. Jenks; treasurer, John Connon; secretary, T. Lawson.

The Hamilton Horticultural Society is another flourishing organization. It is giving the flower show which will be a feature of the meeting next week. The officers are: President, Andrew Alexander; first vice-president, J. O. McCulloch; second vice-president, James Anderson; secretary-treasurer, J. M. Dickinson.

The first session of the convention will be held in the Hamilton city hall, at 2:30 p. m., Wednesday, September 3, when Mayor Hendrie will welcome the association and give its members the freedom of the city. After the response the president, Joseph Bennett, of Montreal, will give his address. Mr. Bennett is well known as one of Canada's most skillful men in the florist business, a versatile speaker, and practical man in every sense of the word. He will be followed by numerous other speakers to whom timely topics have been assigned.

The association headquarters for the convention will be at the Waldorf Hotel, where the rates are \$2 a day, American plan. Members of the local committee will meet all trains and supply members with badges and any information wanted. Those arriving before noon should go direct to the exhibition hall, corner Park and Robinson streets.

The trade exhibit, under the management of the Gardeners' and Florists' Club, will be a feature of the convention. Already over 4,000 square feet of space has been applied for, and it will afford

delegates an opportunity of comparing stock, and to those building, or contemplating doing so, the exhibit of heating and building material will be of much interest, as will the display of plants, florists' supplies and various accessories, be to the general florists.

The entertainment committee has a well planned programme and is desirous that every visitor should partake of the hospitality. The association invites everyone in any way connected with horticultural industry to its meeting. Its objects are to lift up, and carry forward all that tends to advance the interests of horticulture. The roll will be open for membership at the meeting, or names may be sent to the secretary pro tem, Wm. Gammage, London, Ont.

The officers of the Canadian Horticultural Association are: President, Joseph Bennett, Montreal, first vice-president, C. M. Webster, Hamilton, second vice-president, George Robinson, Montreal; treasurer, Hermann Simmers, Toronto; secretary, A. H. Ewing, Woodstock; executive committee, J. H. Dunlop, W. J. Lawrence, W. Muston, C. Johnson, T. Manton, W. Gammage, J. Wilshire, C. Scrim and J. Graham

Exhibition at San Francisco.

The first flower show given by the Pacific Coast Horticultural Society was a fine success all around. The committee of arrangements, consisting of William Eldred, T. A. Munro, H. Plath, F. Cleis, John A. Atkinson and Chas. Abraham, certainly deserves the fullest credit for the work they accomplished. The attendance might have been better, but as long as both ends met no one will object. All prizes were paid on Saturday night, which will be an assistance for the next show, the coming spring.

Beginning at the entrance, Sievers & Boland had a large table devoted to tuberous begonias, palms, carnations and ferns. They received first prize on begonias, first prize on best vase of carnations for Hannah Hobart and a certificate of merit for their red seedling, Mrs. Whitclaw Reid. The carnations drew much attention from the visitors for their size and beauty.

Fick & Faber, of San Mateo, occupied a long table and showed some thirty varieties of carnations, standard sorts and seedlings. Among the latter were Miss Louise Faber, the stems being double the length of any other variety. They received a certificate of merit for the latter and first prize for best and largest collection.

Between these two tables were the exhibits of the forty flower stores of this city, notable through their absence. Only two pieces were on exhibition the first day, a wedding bell sent by Mr. Stevenson and a "welcome" piece by F. Cleis, he receiving \$20 for first and the former \$10 as second prize. Mr. Cleis also received two more prizes the second and third days, for bridal bouquet and basket. A. Mann was second for basket.

Next in the line was a group of palms and ferns in imitation oak pots and stands exhibited by G. Gagne. Common pots and pans were covered with a mix-

ture of cement and colored so that the uninitiated could not tell the difference. He was given a certificate of merit, also a first prize for another group of palms, the best collection staged for effect.

ham was second for decorative plants and first for best single specimen.

H. Plath was first for best basket and best fern. His group of ferns and dracaenas were the best group in the show but not entered for competition.

Chas. Crockford had a wonderful display of oleander blossoms. H. Goertz-hain, of Redwood City, made a display with asters, receiving first prize. Ferrari Brothers exhibited a large vase of lilies. Servean Brothers made a fine display of ferns, coleus and palms not for competition. Golden Gate Park had very fine dahlias and tuberous begonias, perennials and annuals on exhibition but not competing.

The California Nursery Company, of Niles, had a fine display of fruit, all named, and figs showing the curious and very interesting fig wasp, alive and dead, in and out of the fruit.

The gladioli of Wm. Eldred were the best and P. Grallert had a fine table of corcopsis. Roses were not to be seen, with the exception of one small vase, but there were many novelties shown not provided for in the schedule.

GOLDEN GATE.

Beautiful Willow Grove Park.

The advent of the trolley was a great boon for the city of Philadelphia, for, in addition to the rapid transit facilities, it made possible that beautiful park at Willow Grove, on the old York road, thirteen miles out from the center of the city. The old York road from the city line to Willow Grove is a wide, well macadamized avenue which runs through a rolling country with either side bordered, for the most part, by fine private country seats, among them that of John Wanamaker, which covers a large area. When the great utility of the city trolley system was recognized, extensions were in order and suburban routes were largely patronized for the benefits derived solely

The park contains 140 acres, one-half of which was low, but which has been reclaimed and by the construction of several lakes and judicious filling and planting, has been turned into charming landscape effects. There are several winding paths and avenues leading from the main entrance through this broad stretch of lawns interspersed with lakes, while here and there a bit of color is added with a bed of coleus or bright geraniums or a subtropical mound. All are so harmoniously arranged that no devotee of the new school could find objection or have ground to criticize in any way. A public road divides this, about one-third part of the grounds, from the park proper, but as each side of the roadway is lined with well-kept privet hedge it appears as a part of the grounds. Crossing this road we are now in the part containing the amusement features. Here the ground commences to rise. In the foreground is a lake of about five acres extent, in the center of which stands the famous \$100,000 electric fountain.

On the left of the lake is situated the grand music pavilion. This is simply a roof supported on very tall, substantial columns. From the band platform and shell the ground rises so that from any of the many rows of benches a good view of the stand may be obtained. The pavilion proper seats 3,800. Adjoining these seats, extending over the lawns solidly, there are accommodations for 11,500 more, while the standing room capacity brings the number of those who may enjoy the music at one time up to 35,000 or more people. During the season, which extends from Decoration day until Labor day, there is to be heard the best musical talent the country can produce. This season was opened by Sousa, followed by Victor Herbert, of Pittsburg. The Kilties of Canada were next, they being succeeded by the American Band, of Providence. The Royal Band of Italy will close the season. The concerts take place daily, afternoon and evening. The fountain display at night is fine, the electric light effects being very beautiful. In addition to these attractions there is the usual assortment of "Midway" entertainments. The best of order is kept, there being no "barking" or other solicitation allowed.

There are two large picnic groves, well shaded with tall trees. A large number of swings are also provided for the free use of the visitors. The perfect order in which the walks, lawns and flower beds are kept is a great credit to David Joyce and his corps of twenty-five assistants. Mowers are kept going constantly and no private place shows a better lawn. The extreme edges of the grounds are bordered with irregular beds of shrubbery, in front of which are perennials and herbaceous stock.

There are some beautiful specimens of *Hydrangea paniculata*. The flowers are borne on stout stems that hold the blossoms up well. Mr. Joyce says that he gets a short, sturdy growth by liberal pruning early in the spring. He also believes in root pruning and sinks a spade well into the roots once a year. At one time he was much troubled with plantains in the lawn, but said he got rid of them effectively by lowering the mowers after heavy rains, when the ground was well soaked, and the knives cut the hearts out of them. This, of course, trims the grass severely, but as the soil is very moist it has a chance to recover before dry weather.

A range of greenhouses heated by the



HYDRANGEAS AT WILLOW GROVE PARK, PHILADELPHIA.

ture of cement and colored so that the uninitiated could not tell the difference. He was given a certificate of merit, also a first prize for another group of palms, the best collection staged for effect.

A long table of dahlias in some 150 named varieties was next, with first prize for largest and best collection. This exhibit belonged to Wm. Eldred, gardener for the Crocker estate. J. Thompson received first for best cactus dahlias. Eugene Burgle received first for best display of annuals and perennials. C. Abra-

ham was second for decorative plants and first for best single specimen. H. Plath was first for best basket and best fern. His group of ferns and dracaenas were the best group in the show but not entered for competition. Chas. Crockford had a wonderful display of oleander blossoms. H. Goertz-hain, of Redwood City, made a display with asters, receiving first prize. Ferrari Brothers exhibited a large vase of lilies. Servean Brothers made a fine display of ferns, coleus and palms not for competition. Golden Gate Park had very fine dahlias and tuberous begonias, perennials and annuals on exhibition but not competing. The California Nursery Company, of Niles, had a fine display of fruit, all named, and figs showing the curious and very interesting fig wasp, alive and dead, in and out of the fruit. The gladioli of Wm. Eldred were the best and P. Grallert had a fine table of corcopsis. Roses were not to be seen, with the exception of one small vase, but there were many novelties shown not provided for in the schedule.



AQUATICS AT WILLOW GROVE PARK, PHILADELPHIA.

exhaust steam from the boilers of the electric light plant supplies all the plants for the bedding. The several lakes near the entrance to the park are well stocked with water lilies. These came from the H. A. Dreer collection and attract a great deal of attention from the visitors, as they are growing luxuriantly. They have been a little late in flowering this season, as water in the lakes is supplied by springs in the bottom which are quite cold, and this, together with the cool season, has kept them back.

To give an idea of the popularity of the park as a pleasure resort, the daily attendance ranges from 45,000 to 60,000 on all clear days, while this is exceeded considerably on Saturdays and Sundays. Their banner day was the Fourth of July, when the attendance reached 140,000 people, a very good daily attendance for a World's Fair. The music, which this season costs the management \$46,000, is absolutely free, there being no charge for admission to the park or for reserved seats in the auditorium. The only remuneration the company has is in what is obtained from the "privileges" and the car fare, which is 10 cents each way. It has often been said that no such resort would become popular without the liquor privilege, but although Willow Grove Park is now in its seventh year, and its annual record of visitors has increased so that last season it reached over 4,000,000, not a drop of liquor has ever been sold within the inclosure. Over \$700,000 has so far been expended in the improvements and each season additions are made to make it, if possible, more attractive.

ROBERT KIFT.

Convention Notes.

Hotel arrangements might have been materially improved.

The convention papers and discussions were of much value to all florists.

The tour of Biltmore Friday afternoon was very instructive and highly appreciated.

Vice-President Deake was a very busy man and most obliging to everyone who sought his aid.

The ride to the mountains Friday forenoon was heartily enjoyed by a large section of the visitors.

It is a mistake to have the meetings and exhibition in the same room, where that course can be avoided.

Nephrolepis Piersoni was the exhibition feature that attracted most attention. The gold medal given for this fine fern,

the first awarded by the society, was well placed.

C. C. Pollworth made a plucky fight for Milwaukee and won out, vociferously helped by a large body of the Chicago delegation.

Only those who stopped off at Cincinnati, enroute to Asheville, can fully appreciate the kindness of the florists of that city and the excellence of the luncheon they served to visitors.

Many prominent members of the society, including E. G. Hill, Adam Graham and J. C. Vaughan, thought that Cincinnati could have easily secured the next convention, but the florists of that city did not feel disposed to push their claim on it.

Much valuable time and thought are given to the preparation of papers and addresses for the conventions and it seems hardly proper to disturb the speakers who deliver them by such private conversation and other unseemly noises as were conspicuous on several occasions at the late meeting.

Where many non-members listen to the

proceedings, as is always the case at the annual conventions of the society, a check list should be kept on voters in every important question decided by ballot. It sometimes happens that non-members consider themselves entitled to vote, all announcements to the contrary notwithstanding.

VICE-PRESIDENTS' REPORTS.

Eastern New York.

BY ALFRED H. LANGJAHR, BROOKLYN, N. Y.

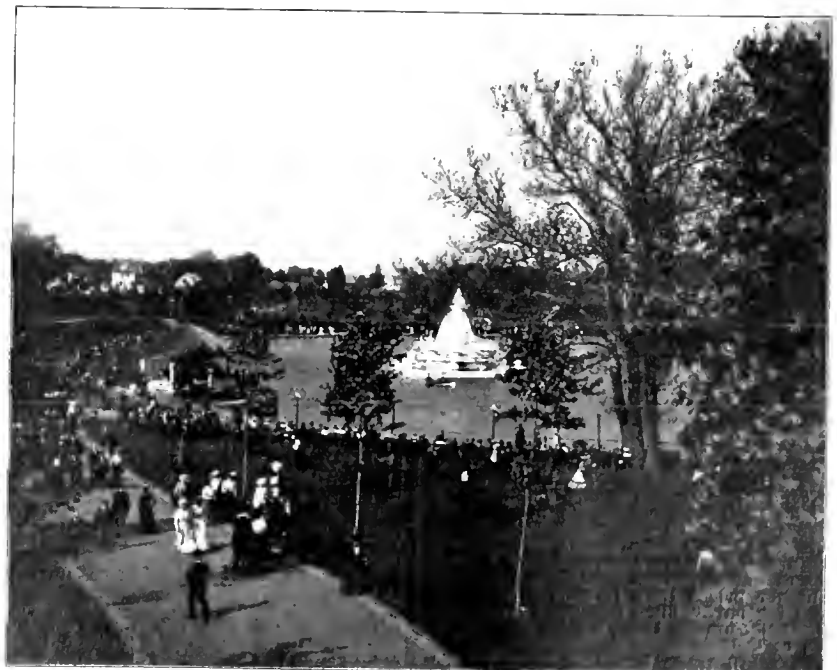
As state vice-president it is again my privilege to make a report of the work of the past year. Generally speaking, trade has been satisfactory in all lines connected with the florists' business.

Among the greenhouse builders business is now brisk. While there has been a considerable increase in the building trade over last year, there is very little difference in New York state, the increase being elsewhere. In our section no commercial greenhouses of any consequence are being erected, but in New Jersey several contracts have been given out for large ranges. The product of these will be shipped to the New York market to be sold; in fact, most of our roses come from New Jersey. This season's building among the private estates has been exceedingly large.

There is no likelihood of a reduction in cost of building material, but it looks very much as if there will be an increase in wrought and cast iron and steel, and all articles made therefrom, before the end of this year. While the price of glass was down a little, it is now rumored prices will be advanced considerably.

In cut flowers the fall trade was very good until the chrysanthemums arrived; then business slackened up considerably. Thanksgiving day turned out the same as usual, with plenty of flowers and quantities of chrysanthemums, prices being fair. Chrysanthemums last season were cheaper than ever before, and the supply lasted far into December. Large quantities of Boston ferns and rubber plants were sold last year, some being disposed of very cheaply.

Christmas trade was satisfactory. On that day the cut flower business was very slow until after midnight; then it improved, with a rush for high-grade stock, which brought exceptionally good prices, a few choice Bridesmaid roses bringing 75 cents each. American Beauty were overstocked, and prices lower than last year. The supply of carnations was satisfactory, the fancy grades bringing high



THE LAKE AND FOUNTAIN AT WILLOW GROVE PARK, PHILADELPHIA.

figures. Christmas greens were cleaned up in most places.

The plant trade, which exceeds the cut flower trade at Christmas, was very heavy. Poinsettias, azaleas, Lorraine begonias, peppers, aucubas, dracaenas, ardisias, heaths, orchids and crotons were in evidence and sold well. Oranges and imported hollies found a ready sale. The demand for fruiting plants seems to be on the increase.

New Year's trade amounts to a good Saturday's business, no preparation being made now for this holiday.

The Easter trade, which was the best on record for the plant grower, experienced a setback through the rain on the previous Friday and Saturday. Lilies cleaned out well at good prices, as did azaleas. These two plants exceed all the others combined in quantity. There was the usual number of genistas, Crimson Rambler roses, hydrangeas, lilacs, rhododendrons, bougainvilleas, hybrid roses, acacias, hyacinths, daffodils, lily of the valley and violets in pots to be sold.

There is not much to be said about the cut flower trade, as most of the stock had been held back, and no reasonable offer was refused, although the better qualities of roses and carnations sold well. There were cartloads of violets shipped, some of which had been held back for weeks, and sold for \$1.00 per thousand. After the weather cleared and the sun came out, and the retailers felt it would remain so, good violets were called for and found to be the scarcest article to be had. Bulbous stock, cut, was a complete drag.

The florists' supply dealers speak encouragingly of the business they have done, and from all reports it is on the increase.

The auction houses have been well attended this year. While the prices were not up to those of last year, the number of plants sold exceeded that of all previous years, and the outlook is very encouraging for a good fall business. The demand for salvias seemed to be in the lead, with named cannas a good second.

demand with the leading florists. Lily of the valley was in large demand, but the sale of general bulbous stock is falling off with first-class houses.

The demand for cut carnations has greatly increased, good people refusing to buy the cheaper varieties. Rose growers have had a good, steady sale for their stock; while prices were not so high as in former years, they were firmer throughout the season. New plantings are doing well. Some rose men are growing American Beauty extensively this year, as that rose was in brisk demand the past season.

Carnation men have passed through one of the best seasons that they ever had, and are now preparing for a better one. The stock in the field is looking very fine, and by this time most of the houses are planted. The varieties that will be grown extensively next year will be Mrs. Lawson, Gov. Roosevelt, Wm. Scott, Lorna, Harry Fenn, Viola Allen, J. H. Manley, G. H. Crane, Morning Glory, Golden Beauty, Mrs. Bradt, Prosperity, Floriana, Flora Hill, Lizzie McGowan and White Cloud.

Some men who have experimented planting direct into the greenhouses have been successful in getting a full growth. The carnation center for the east is now on Long Island.

Violets have maintained a good price throughout for first quality. The crop the past season was very large. The violet center to-day is at Rhinebeck, N. Y. One builder alone got out material for 75,000 square feet. The plants are looking very well at present, and the violet men expect a tremendous crop for the coming year. We have reached a higher standard now, and the public is educated right up to the mark, and will only buy the best; so if the small grower will continue to produce inferior blooms he will surely go to the wall.

Through the efforts of the Department of Agriculture at Washington it is possible to-day to grow violets in old houses year after year by using a remedy in hydrocyanic acid gas, that destroys all in-

The New York committee of the Chrysanthemum Society of America met at its usual stated periods, and awarded certificates to the following varieties: Cremo and John R. Weir. Fewer varieties were exhibited before this committee the past chrysanthemum season than heretofore.

The New York Florists' Club will hold a grand exhibition of flowers, fruits, plants and vegetables in Madison Square Garden, October 30 to November 6, 1902. In connection with this show the American Sculpture Society will make a display of sculpture work, the combination creating an exhibition unexcelled in the metropolis. The club now publishes in pamphlet form the papers read before it during the year. Exhibitions of flowers are also made monthly. The attendance has been gratifying, and the association continues on a good working basis.

A plant-breeding conference under the auspices of the Horticultural Society of New York will be held in Manhattan in September next. Prominent scientists and practical horticulturists will read papers and a most instructive programme has been prepared.

The Brooklyn Horticultural Society was organized in June last, to carry on the work preparatory to the coming convention and meeting of the American Carnation Society, which will be held in Brooklyn in February. A grand display of the divine flower will be forthcoming. The Horticultural Society will be a permanent institution.

The death roll includes the following names: Charles H. Downie, prominent seedsman; John Fitzgerald, wholesale florist, New York City; M. J. Lynch, of Poughkeepsie, violet grower; A. C. McConnell, retail florist, New York; Victor Derval, salesman.

The New York Cut Flower Exchange has taken quarters in the Coogan Building, Sixth avenue and Twenty-sixth street. The market is now opened at 6 a. m. The East Thirty-fourth street market is still continued.

Northern Ohio.

BY LEWIS ULLRICH, Tiffin, O.

Another year has passed around since the Society of American Florists met in convention at Buffalo, N. Y. I, as your state vice-president for northern Ohio, am pleased to say that with the florists about here this year has been a prosperous one, and the twentieth century opens with prosperity for the florists who are alive and up-to-date, and who keep pace with the times. You can easily tell the florist who is not prosperous by his surroundings. Enter his establishment, and we find everything topsy-turvy, old wire designs lying around, broken glass, old boards, piles of broken pots, etc. His makeshift of a desk is covered with old papers, letters, books, catalogues, etc., and all this covered with dust and cobwebs, and with barely room enough on which to write an order when he gets one; tools lying about, with no special place for them; they are dropped wherever the person using them happens to be, and the next one wanting the tools will have to spend half of his time hunting for them.

This kind of a place reminds one more of a second-class junk shop than a prosperous greenhouse establishment, and indicates a slovenly, shiftless business man. We have many such in our ranks, and I hope if any of this class read these lines they will take the hint that they are meant by these remarks to profit by the same, and will try to bring themselves and their business up to the standing at which they ought to be in the commercial world, in the foremost rank. For is he not the cultivator of the beauties of nature? Therefore he should by his surroundings show the truth of this, and that he appreciates the fact that the florist business is one of the most elevating and refining of all occupations.

There was a marked increase in the demand for first-class flowers during the holidays. Nothing was too good, and stock brought an equivalent price. The holiday business, in fact the florist business during the whole year, has been much better than formerly. I think I can with safety say that there has been an average increase of twenty-five per cent over that of any previous year.

At a farmers' institute held in Tiffin by the Agricultural Society of Seneca county, under the auspices of the state agricultural department, an article on floriculture was delivered by your humble servant, in which particular stress



WATERMELON PARTY ON THE MOUNTAIN, ASHEVILLE, N. C., AUGUST 22, 1902.

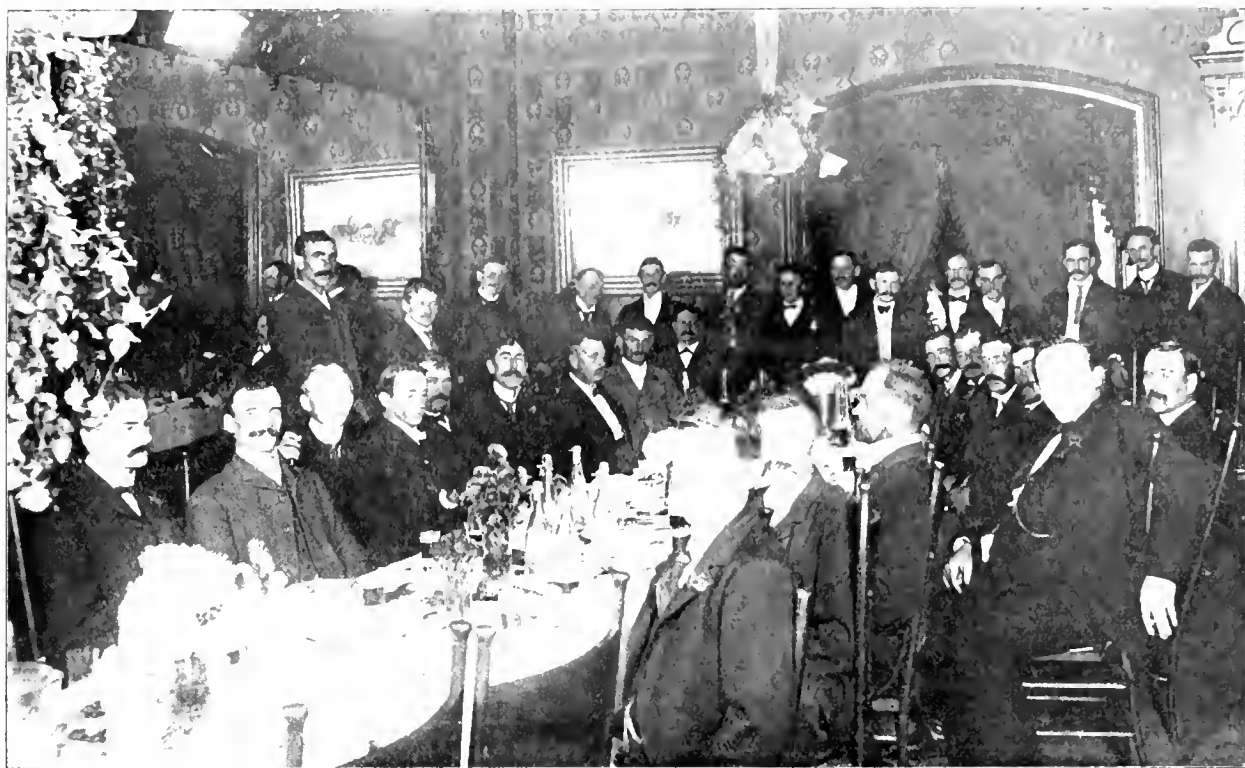
The seedsmen report a brisk spring business. There appears to be a special demand for shrubs and hardy plants; also seeds of the latter. In suburban gardens the tendency is to plant shrubs and hardy herbaceous plants which do not require to be transplanted each year. The prospects for the fall seem bright, advance orders are being placed more freely for all lines of bulbous stock, and in most cases at higher prices than formerly. The demand for hardy lilies has been especially noticeable; among these are all the native lilies of California.

The retail trade has had its share of prosperity. The Bridesmaid is still the most popular and best-selling rose. American Beauty and orchids are in greater

sect life. Violets will not stand tobacco in any form. With plenty of new sod and your houses so arranged that you can ventilate from the outside, you ought to have no trouble to get the quality.

The American Rose Society held its annual show at the Berkeley Lyceum, New York. It was a creditable show, with a fair attendance. The society meets in Philadelphia next year, where its exhibition will also be held.

The Horticultural Society of New York, in conjunction with the New York Botanical Garden, held an exhibition in the museum of the garden in June last, where the \$50 award of the society was made to Nephrolepis Personi, a sport of the well-known Boston fern.



BANQUET TENDERED C. C. POLLWORTH, MILWAUKEE, ON HIS VICTORIOUS RETURN FROM THE ASHEVILLE CONVENTION.

was placed on beautifying the grounds surrounding farmers' homes. Among other things mentioned were rose beds, in which the plants from the benches of our rose houses were recommended. This proved very fruitful. We succeeded in selling about 2,500 of Bride, Bridesmaid, Golden Gate and Perle des Jardins, which paid very well for the time it took to get up the address before the institute. We sold the plants at the rate of 15 cents each, whether one or more was taken; and selling the number we did in so short a time, it paid much better than throwing the plants on a heap and burning them up. I have made it a point to inquire as to the result, and universally the buyers are well pleased, as the roses are blooming profusely. This sale of stock, which is usually considered worthless, assisted very materially in replanting our rose houses for the coming season.

There is an increased demand for perennials, especially among the farming community. The season was very backward, cold and rainy weather prevailing, which, when it did let up, brought the work all into a bunch. Everybody wanted his bedding done first. The increased demand for porch and window boxes, hanging baskets and general bedding made the florist who had a good deal of that kind of work to do exert himself in order to please all his customers. The demand has been so brisk with most of the florists in this section that by the first of July they were all pretty well sold out of bedding stock, getting better prices, and having less trouble to collect outstanding accounts.

Those of the craft who grow cut flowers more or less extensively have at this date nearly all of their rose houses planted, and some are making preparations to house carnations. So far as I have heard, the carnations in the field are looking well, with few exceptions, where they were planted on low land, and were covered with water caused by the overflow of streams swelled beyond their capacity by the rains. In such places the growers are losing some plants by stem rot. With me, the overflow took the soil from one end of the field, leaving the plants upon stilts, as it were, and burying them at the other end, so that after the water had receded one could see only an occasional leaf sticking through the mud. These had to be uncovered, and the surplus soil hauled back to where the water had brought it from and put around the plants from which it was taken. Doing

this work promptly and carefully, my loss was but slight. Had the sun shone my loss would have been greater; but for three days following this severe rainstorm the weather was cloudy, so that the plants which had their roots exposed did not suffer. I lost a few plants which were covered with soil too long; we could not handle them until the water had drained off, which was a slow process in some parts of the field, and the plants rotted.

Quite a number of florists about here are very much troubled with thrips on their roses and carnations, principally the latter; we never before have known the pest so destructive as this season.

Nebraska.

BY LEWIS HENRIKSON, OMAHA, NEB.

Trade during the past year has shown a steady improvement over previous years. The demand for our products has been greater and as a result of this the cut flower market during the year has been steady. There was never much of a surplus, consequently prices did not greatly fluctuate.

Chrysanthemums held their own as fall flowers, but noticeable was the falling off in the demand for extra large blossoms and an increased demand for medium-sized blooms of good color. Carnations, if possible, are increasing in popularity. Roses, the old standby, have not lost any of their popularity, the American Beauty having an increased demand, as well as Liberty and Golden Gate.

Christmas business netted good returns in all departments, especially plants, for which there seems to be a greater demand every year. Trade kept up well all winter. St. Valentine's day and Washington's birthday seem of later years to be coming to the front.

Easter trade was excellent, but the longiflorum lily was an entire failure in this section a reverse from previous years. Plants sold out well during the spring months. The weather has been very favorable, although a little wet, and as a result the outdoor stock is getting along nicely.

In this state new buildings to the extent of 100,000 square feet of glass have been put up this past year, with a very small percentage of breakage by hail.

The Nebraska State Horticultural Society held its annual fall exhibit at Lincoln last fall, with a very fine display of plants and cut flowers, where always a good-natured rivalry exists among the florists

as to who can make the most attractive display.

The Nebraska Florists' Society has added many names to its list of members the past year, with headquarters at Omaha, where it meets the second Thursday of each month, each meeting bringing a closer relation between our florists, with the exchange of ideas covering improved methods, uniformity of prices and a generally more friendly and fraternal feeling between the members.

There have been no deaths among the florists of our state during the year, to my knowledge, with the exception of one who, while not a florist, still occupied a place among the leading horticulturists of the country, J. Sterling Morton, who promulgated the idea of Arbor day, the day for planting trees, from this state, and which has been copied by other states and incorporated into their laws until it is generally recognized as a holiday throughout the United States.

The prospects for the future of our state are bright. With its central location, large surroundings, multitude of people, its fertile soil and abundant sunshine, truly in the prophecy of Thomas B. Reed, "Every wise man agrees that beyond the Mississippi lies the great wealth of the days to come."

Canada.

BY U. U. GROFF, SIMCOE, ONT.

It is with pleasure that I report the most marked advance in the florists' business over any former year, the Christmas and New Year holiday trade being fully 15 per cent better than ever before in our leading city, as well as country trade. The public seemed willing to pay any price for first-class stock, thus strongly supporting my contention that good work and service will always find appreciative and profitable recognition. This happy condition of affairs will be an incentive to the trade to make quality the first consideration.

The supply of Begonia Gloire de Lorraine in pans fell far short of the demand in Hamilton, Ottawa, Toronto, London and Montreal. Pans of primulas, three or four plants each, sold well, also all staple lines in cut flowers and decorative plants. Palms, azaleas, ferns, cyclamens, primulas and bulbous stock sold well, and larger sales were made at advanced prices for high quality in roses, carnations and chrysanthemums.

The trade during January continued most satisfactory. Mignonette, sweet peas

and bulbous stock were in small quantity, with an unusual supply of freesia, and plenty of violets and carnations. In Toronto, Hamilton and Ottawa the supply of orchids was much under the demand.

Toronto trade was not affected by the Lenten season, and St. Valentine's day created exceptionally heavy demands for violets. With the advancing season greater activity and hopefulness were manifested in all lines. Retail trade was good, with a plentiful supply of roses, carnations, violets and bulbous stock.

Montreal trade was dull after Easter, with an ample supply of all stocks, particularly bulbous, which was overabundant. Violets sold well; asparagus and smilax were scarce.

Toronto business after Easter was good. Stocks were plentiful, except violets, which were scarce and in good demand. Roses ruled somewhat cheaper. Sweet peas were coming in early in April. All Toronto florists rejoiced over the Easter business, the aggregate sales in which were 12 per cent higher than last year, and never before had an Easter season shown better stock. Carnations were not overplentiful, but the fancies were splendid. Lily of the valley sold well and violets at good prices. In plants there never was a better variety, and the appearance of the stores was never excelled.

Ottawa's Easter trade was very good, with the supply of stock equal to the demand and all of which was of a satisfactory character. With the opening season for outdoor work the sale of bedding plants was very satisfactory, but I regret to report serious damage by late frosts to carnations in the field, as well as other stock. On the whole, the season was backward, the severe late frosts being followed by continued cool and showery weather all through the month of June.

While not able to report any building of special note, I am able to refer to a general improvement and extension in existing plants, showing a general tendency toward increased facilities and production, with a healthy and hopeful progress all along the line.

Wisconsin.

BY C. C. POLLWORTZ, MILWAUKEE.

The past year seemed to be one of general progress in the florists' trade. Nearly everything which was well grown found a ready market. The most noticeable increase was in the bedding line. Many of the smaller localities, where formerly little outdoor work was done, are now following ideas laid out in larger cities, and the demand for plants was in excess of supply. Growers and retailers all had a profitable season; and many new names appear in the list of florists. New establishments have been opened in cities where formerly there was no florist. The increase in glass throughout the state may foot up about 200,000 square feet. The continued high price of glass, however, deters many from making new additions.

Blooming plants are being called for as well as palms and ferns at most of the holidays, almost in excess of cut flowers, especially when prices for the latter are high. The outlook for next season is prosperous.

Colorado.

BY J. A. VALENTINE, DENVER.

Trade has been satisfactory in nearly all lines, with a moderate increase in the total volume of trade over the year previous, with collections generally good. There has been a noticeable tendency toward a more careful grading, which has resulted in better prices and less fluctuation for the best grade. The poorer grades have sold at less prices, and this has probably had something to do with the establishment of two or three concerns dealing almost entirely in the cheaper grades. Spasmodic attempts have been made to establish a street trade by fakirs, but without success. One department store has made a persistent effort for several years to sell plants and cut flowers, but without any appreciable effect on the trade of exclusive florists.

The retail trade is becoming more critical each year, and the better class of this trade now demands a strictly first-class article. This is especially true in regard to blooming plants, and the quality now produced by the florists of Denver and Colorado Springs will compare favorably with any other section of the country. The sale of palms and ferns is not what might reasonably be expected, the

public showing a lack of appreciation of this class of plants. There has been a noticeable falling off in the demand for ficus and araucaria. Dracaenas and pandanus have never sold in this market to any extent. Owing to climatic conditions which make irrigation necessary, the sale of bedding plants has never been as important as in eastern states. This is especially true as regards window boxes, which are hard to keep looking presentable during the hot, dry summer months, when it is almost impossible to keep down the red spider. Still there has been quite a noticeable increase this year in the call for the more common sorts of bedding plants, such as geraniums, for both lawn planting and window boxes.

The increased demand for shrubs and for hardy herbaceous plants has been very marked. This has been almost altogether from owners of small places, as there are very few private places in this state where extensive planting is done. Probably we will have to wait years for any considerable development in that line, until those who have amassed large fortunes have died and the money has passed into the hands of the younger generation.

The public parks have, in the main, been under able management, and, although hampered somewhat by the usual political interference, good results have been obtained, and the parks have really been an educational feature creating a demand for plants from private parties.

No very extensive building has been done in the state during the year. N. A. Benson has erected about 20,000 feet in South Denver; Ed. Hubbard, of Boulder, has torn down and rebuilt his place of about the same size, and William Clark, of Colorado Springs, has made some additions to his already extensive place. Several diminutive places have been erected in the mountain towns. In Denver and vicinity there are at present about 400,000 feet of glass devoted to the florist business, at Colorado Springs 150,000 to 200,000 feet, and in the state outside of these two points less than 150,000 more.

The question of the establishment of some sort of a wholesale market in the city of Denver has received considerable attention, but nothing definite has been determined upon. Several attempts have been made in the past to establish a commission house, but these attempts have always failed. It is doubtful whether the volume of business will yet justify such a venture. The nearest sources of supply from abroad are 500 miles to the east, on the Missouri river, with the supply at those points uncertain, and the shipment of 1,000 miles from Chicago is attended with many disappointments. The result is that very little in the way of cut flowers is shipped in from outside the state. American Beauties form the only noteworthy exception. The quantity of cut flowers grown has been sufficient to supply the demand in the main all through the year. The trade in blooming plants has reached such proportions that the demand for cut flowers at Christmas and at Easter has been very materially reduced.

Most of the newer varieties of carnations are to be found in the market, but the variety of roses grown is not as large as it is around eastern centers of population. Beauty, Bride, Bridesmaid, Perle, Liberty, Meteor, Wootton and Mme. Chateau have been in the market the past year, and this summer's plantings show that Helen Gould will be added to this list the coming season.

There is no state organization of florists and but few local societies. In Denver the Denver Floral Club is in existence and holds meetings at stated intervals, but the interest shown is not very great. No fall show was held by the society last year, but a spring show was given in the city park, with free admission. The attendance was large, but the display of bedding stock was rather disappointing. In Colorado Springs the El Paso County Horticultural Society is very active, and great efforts are made to interest the school children by the distribution of seeds and the offering of suitable prizes. Prizes are also given for the most attractive dooryards and lawns, and competition for these prizes has been quite active, resulting in a decided benefit to the appearance of the city at large. The State Horticultural Society and State Board of Horticulture are both doing good work and, while their efforts are not directed along the lines of work most directly interesting to the florist, the indirect benefit to the florists' trade is considerable.

The distance is so great and so much time and money are consumed in attending the annual meetings of the S. A. F. that the society has not much of a membership in this state, and it is doubtful whether this condition of things can be materially changed unless at some future time the society should see fit to establish district conventions for different sections of the country, in addition to the annual national conventions, and it is doubtful whether the time is ripe for such a move, so far as this section is concerned, even if it should ultimately be deemed advisable.

West Virginia.

BY GUSTAV OBERMEYER, PARKERSBURG, W. VA.

I have the honor as well as the pleasure of making the first report from our small but prosperous mountain state. This state has passed through one of the most prosperous years in the history of horticulture, and all florists seem to be well satisfied with the business done the past year. Bedding plants were sold out cleaner than ever before. Cannas are taking a leading part in bedding plants. Prices have also been satisfactory.

In cut flowers this state has never been able to supply the demand, and a great many are shipped here from adjoining states. Carnations take the lead and bring good prices. During the holidays good carnations bring as high as \$2 to \$2.50 per dozen, the average price during the winter being 75 cents to \$1 per dozen. There was a big demand for cut flowers until late in the spring. Easter trade was very good. There was a great demand for potted plants and everything in that line was sold out.

There has been a great deal of glass added by several firms this season, one firm alone adding about 10,000 feet. Chrysanthemums are looking well at this time. There seems to be a better sale for them in the last few years than there has been. Carnations are doing finely this season; it seems to have been just right, with a good rain about once a week.

There has been hail all over this section this summer, but the florists have been lucky enough not to be damaged much by it. Brother florists, better look your stable before the horse is stolen.

I would like to mention that this state shows good opportunity for some enterprising young men who would like to start in business for themselves, as the state is growing very rapidly, and many small towns could and would support a florist, for each new greenhouse in a new town creates a demand for more flowers.

It is very hard to get new members for the S. A. F., but I think we have some of them stirred up, and by keeping at them may yet succeed in lining them up and bringing them into the society, that they may be benefited by our organization.

Rhode Island.

BY LOUIS REUTER, WESTERLY, R. I.

Trade in general has been up to the average, the prevailing feeling being that we have had a prosperous year. Although business was dull during the early fall, after Thanksgiving it kept up quite well. Chrysanthemums came in during their season in fine shape, but the market was overstocked with them and consequently the prices were not as high as they ought to have been.

After Thanksgiving business took a start and kept up well, even through Lent. Christmas trade was very good, with a scarcity of finer flowers and an overabundance of bulbous stock. The plant trade showed an increase over last year, and anything with fruit or flowers sold well. After the holidays there was not as much of a check in business as in former years, and with a steady supply of first-class stock business held up well through Easter.

The weather conditions before Easter were very fine and consequently the market was supplied with first-class stock. Lilies, in pots as well as cut blooms, sold very well. Had it not been for a stormy Saturday preceding Easter there would have been still more business done, but, thanks for so many orders being taken in advance, stock was pretty well cleaned up during Sunday morning.

The spring trade started late on account of cold weather, but when the warm weather did come plants sold very well. On Decoration day there were a great amount of bouquets, ready made up, sold in the city of Providence on an advance over the price of former years.

This was brought about by the retailers combining and arranging a price which was fair and which allowed them to make a creditable bouquet.

Trade held up well into the summer, and our numerous fashionable shore resorts still take care of any good stock to be had. American Beauty and Liberty roses find a better market than in former years and the Boston fern is still a great favorite.

The florists' business is on the increase in "Little Rhody." There is an abundant supply for our own state and still enough of first-class stock left to ship into other states. Before another year, if material is in reach, we expect to have some additions as well as new places to report.

Kentucky.

BY ALBERT R. BAI MEER, LOUISVILLE.

To arrive at a reliable knowledge of the trade conditions in our state I mailed a circular letter to every florists' establishment in Kentucky whose address I could obtain, asking for all information they could give regarding trade. From the answers received, and from personal observation, it is again my pleasure to report satisfactory conditions in the florists' business generally. Nearly all the retail florists report satisfactory business, with good returns for both cut flowers and plants. The growers seem pleased with the returns for cut flowers, but think better prices should be obtained for plants, especially blooming stock.

As far as I can learn, all of the Kentucky members of the S. A. F. have renewed their membership for this year, including one life membership. There has been a limited increase in the interest in the state society, but not nearly as much as should be. This fall a chrysanthemum and floral exhibition will be held in Louisville under the auspices of the Louisville Business Women's League, but under the management of one of the local florists.

While new glass is going up only in limited quantity, many establishments are rebuilding old houses into modern structures.

District of Columbia.

BY PETER BISSET, WASHINGTON.

The past year has been extremely satisfactory to the florists of the District of Columbia in many respects. All report business for the past year as very satisfactory, and all are busy preparing and planning to handle the expected increase of trade during the coming season. Several growers are adding new houses to their present ranges this year, and others are rebuilding old houses in order to keep up with the demand for cut flowers and plants.

Extensive alterations are going on at the White House greenhouses at present. Nearly all of the old houses will be pulled down and a new range of houses erected at another location of the grounds. This was made necessary by the building of new offices for the president, which will occupy the ground where part of the greenhouses were located. The removal has caused Mr. Pfister, the head gardener, considerable trouble, as he had no other houses into which to move his splendid collection of plants, but had to stand them around the grounds underneath trees, etc., until suitable quarters can be completed to house them.

Florists who have handled the Queen of Edgely rose report sales as good and think that there is a place for it. Killarney is another new rose that has been much admired by ladies of good taste, and the florist who grows for the better class of flower buyers should give this rose a trial. It is a fine shell pink, shaded silver, with a good stem and of fine lasting qualities. Some object to it because of its being a semi-double rose and not quite full enough, but here lies one of its good qualities. It is a departure, or, if you prefer, a retrogression from the florists' rose of the present day, but this is what we need, greater variety of flowers in color and shape, and I believe this is a break in the right direction.

The new white rose, Ivory, is one of the finest forcing roses that has ever been introduced. It is a sport from Golden Gate and is identical with that variety in growth and free blooming qualities, but the color is a fine ivory white, hence its name.

Another rose that will be introduced soon by the same firm which introduced Ivory is Alice Roosevelt. This rose made its debut in Washington last winter and

has been much admired by the elite of Washington society. It is a sport from Mme. Abel Chateau, with all of this variety's good points and, being of a glowing pink color, is especially desirable for night work.

In new climbing roses of recent introduction Dorothy Perkins stands out prominently. It is a hybrid between Rosa Wichuriana and Mme. Gabriel Luizet; it has the climbing or trailing habit of Wichuriana, with the beautiful lustrous pink of Luizet. It flowers in clusters of from twenty to forty, the individual flowers averaging one inch in diameter. It is of similar habit to Crimson Rambler and will prove an excellent forcing rose as a pot plant.

Another new plant of recent introduction is Philadelphus Boule d'Argent, or double mock orange. This will prove to be a desirable plant for winter forcing. It is dwarfier and more spreading than P. coronatus, with smaller leaves, flowering in terminal corymbs of four or more flowers, each about one inch in diameter.

Prognosis have been coming rapidly to the front during the past few years. Blooming, as they do with us, about Decoration day, they prove very acceptable at that time. Several of the florists are adding to their collections of this desirable plant.

An interesting and successful experiment was made here last spring in the shading of hybrid perpetual roses in the open ground. The aim was to keep off our hot suns that prove such a drawback to the successful culture of the rose in the open ground around Washington. A framework of pipe was erected and over this cheesecloth was stretched, and by means of ropes and pulleys the cloth could be rolled up or down at will. The results were larger flowers, longer stems and very much better color. The experiment was so successful that more roses will be covered next year in the same way. The first cost of the material is trifling, compared to the fine results obtained, and the cloth will evidently last for several seasons. I would strongly advise florists to give this method a trial, and I am sure they will be well repaid in the finer blooms obtained.

In dahlias a few of our growers have been growing Standard Bearer with good success, and have never been able to fill the demand for this variety. This is one of the true cactus type, flowers of brightest scarlet, and seems to quite capture the ladies' fancy. You hear exclamations of delight wherever this variety is shown. It succeeds very well here, flowering continually, and, unlike most cactus dahlias, the flowers are borne on long stems and therefore prove a good florists' flower. A fine companion to the foregoing is Mrs. Peart, also a true cactus dahlia, color creamy white, a very satisfactory sort. A fitting companion to the preceding two, but of the decorative dahlia type, is Grand Duke Alexis, of large size and distinct form, color pure white, delicately tinged with pink; it proves a fine selling flower.

No report from the District of Columbia would be complete that omitted mention of the great work being done by the Department of Agriculture for the benefit of the florists. I am indebted to Prof. A. E. Woods, pathologist and physiologist of the bureau of seed and plant introduction, for the following synopsis of the work of the department on the nematode of the rose and violet:

For the past year the pathologists of the department have been endeavoring to find some method of fighting the eel worm, or nematode. After testing a great many substances supposed to kill these worms, it has been found that the best material to use is a dilute solution of formaldehyde, about 1 per cent solution being sufficient to very quickly kill any nematode touched by it. An extensive experiment in the treatment of the root nematode of roses, carried out by J. Louis Loose, of Washington, in accordance with the directions furnished by the department, was very successful. The treatment was made on February 10, including plants of several varieties, namely, The Bride, Kaiserin Augusta Victoria, Mme. Abel Chateau, Nephotos, American Beauty, Liberty and Meteor. The solution was made up on a scale of four pounds of the commercial formaldehyde to fifty gallons of water. Fifteen thousand plants were treated, requiring about 200 pounds of formaldehyde, costing 18 cents per pound. The mixture was applied with a hose connected to a force pump. While at first all the young feeding roots that the plants

had, as well as the nematode galls and nematodes in the soil, were killed, the treated plants soon grew out of the setback and formed fine new feeding roots, while the untreated plants remained stunted and diseased.

For land nematode of the violet they have found that this nematode is also very easily killed by formalin, although it is not practicable to use formalin on the plants. About all that can be done in order to fight this pest is to carefully throw out of the stock every plant showing any sign of bad nematode. It should be pulled out and destroyed; otherwise the disease will spread from plant to plant. It does no good to cut out the diseased part. The nematode is easily killed by drying and it is therefore suggested that houses in which the disease has appeared be run rather dry, especially permitting the surface soil to dry and keeping it in the form of a dry mulch. Heavy shading is undesirable in cases where the disease has appeared, as under such conditions nematodes getting upon the surface of the soil and on exposed places on the leaves will not be destroyed, whereas, if they are exposed to the sunlight, they are likely to become dried up and die.

I am very glad to be able to say that at a meeting of the florists of the District of Columbia, held on July 31, the Florists' Club, of Washington, D. C., was once more brought to life and started on what we all hope will be a long life of usefulness and prosperity for the good of the trade in general and the welfare of its members in particular.

Iowa.

BY W. A. HARRETT, DUBUQUE, IA.

The reports from a large per cent of the florists, covering nearly all sections of the state, show the past season to have been a prosperous one, averaging better than 1901. The greatest gain was in the cut flower department, the increase from reports now in being about 27 per cent in sales, with some advance in prices. There has also been an increased demand for palms and ferns, and bedding plants show some gains, while miscellaneous plants barely hold their ground.

Carnations in the field are generally reported in excellent condition, with a few losses from the heavy rains of the past three months. Other growing crops are also in good condition generally.

The losses by hail are very light so far, but Brother Esler will know better about this. The amount of new building reported is about 100,000 feet of glass, but this will probably be doubled, besides considerable will be used in remodeling and repairing. However, the high price of glass and iron will prevent some from enlarging their plants for the present.

New Hampshire.

BY BERNARD MORRIS, PORTSMOUTH, N. H.

I take the keenest pleasure in doing a duty to the S. A. F. or any member of the same. As state vice-president it devolves upon me to perform a duty in making a report which I am in no wise competent to do; first, as a gardener on a private place, I am not in close touch with the ups and downs of the trade. Second, to numerous letters of inquiry I received but one reply, which is disappointing to me, and a bad handicap besides; still it goes far in showing us the "spirit" of the New Hampshire florist of to-day.

Within a short space of time, perhaps a little over a year, there has been considerable glass added. Manchester, Nashua and Dover take the lead in this respect. With the increased glass area, suffice it to say, the trade must also have increased to support it, and trade is. I am happy to say, largely in excess of previous years in most localities, if not in all. A step in advance was taken by some of the largest places in this section last spring, by allowing eight hours to constitute a day's work every Saturday, instead of ten hours. And to my way of thinking, the florist and his men could accomplish more by working shorter hours and devoting more time to reading the trade journals, the daily papers and such literature, or, as Oliver Goldsmith has once said:

"For just experience tells in every soil,
That those who think must govern those
that toil;
And all that freedom's highest aims can reach
Is but to lay proportion'd loads on each."

There is not a florists' society or club of any kind in this state outside of the New Hampshire Horticultural Society. But I think it would be an easy matter to secure a goodly number of members if such an organization were formed. And I will say with a reasonable assurance that we will have a lot of the New Hampshire boys woke up, ready to join you when you meet again on the New England end of Uncle Sam's domain.

Western Pennsylvania.

BY WILLIAM LOEW, ALLEGHENY, PA.

The past season has been a highly successful one in every particular. Flowering and bedding plants sold away beyond expectations, with red geraniums and French cannas in the lead. In the decorative line palms and bay trees of larger sizes held first place. John Bader, of our city, having a large importation of both, sold out completely, as did numerous other firms here.

I may mention that of the commonly called rubber plant the sale reached such proportions as to make one think this plant has become almost a household necessity.

Philadelphia.

REVIEW OF THE RECENT CONVENTION.—ALL QUAKER CITY PEOPLE ARE WELL PLEASED.—DRIVE TO BILTMORE THE FEATURE OF THE WEEK.—WONDERFUL VIEWS.—EXPERIENCES NOT ON THE PROGRAMME.

All home from the convention, safe and sound, Ed. Reid being the last to arrive, on Tuesday morning. Everybody seems delighted with the trip and from the various expressions of satisfaction one hears it is safe to say that it was one of the most interesting meetings that has yet been held. Vice-president Deake was much in evidence and did all he could to make the stay of the visitors pleasant and profitable. The ride to Overlook Mountain, at the invitation of the Idlewild Floral Company, was very much enjoyed, the view from the top being inspiring. The ride to beautiful Biltmore was of course the great event and a personal visit showed that although much had been said, yet the half had not been told. The winding drives through the artistic borders of trees and shrubbery, a new combination presenting itself at every turn, called forth exclamations of wonder and surprise and when, at last, the palatial mansion came into view the grandeur of the scene left the visitors speechless. The view from the plaza in front of the mansion is delightful. The grounds fall away gradually until they seem to fade into the surrounding landscape. A beautiful artificial lake lies at the extreme foot of the slope, while just beyond flows the Swannanoa river. To complete this scene, arising as a background, are the grand and impressive tree clad mountain ranges, which extend in every direction as far as the eye can reach. This combination of the best that man can do, united as it is with nature's great handiwork, cannot help but impress itself on the mind of all observers and instills a feeling of awe that lifts one out of the ordinary walks of life and makes an impression that will never be forgotten. Robert Bottomley deserves great credit for the order in which everything is kept, the ivy trellises especially being the admiration of every one.

What with the sessions of the convention, the shooting, the bowling, both team and individual, the trip to Overlook and the great Biltmore ride, the delegates certainly put in a busy week. There were various other little things that attracted them. One day W. J. Baker was passing the U. S. public buildings and noticed that the flag was displayed union down. This was too much for the old veteran,

who immediately repaired inside and insisted that this be righted at once. Those in charge said it would be attended to and the doughty William said "All right, the sooner the better, and I will wait until I see it done," which he did. A little fracas in the public square about midnight was noticed by a knot of the boys, who were waiting for the last car. A policeman arrested the offender and one "W. J. B.," who followed the crowd to the lock-up found, when he tried to go out, that the key was turned, and when finally released he had the pleasure of walking home by himself. The 20-cent fare to ride across the lawn of the Battery Park Hotel and then the cold "turn-down" will not soon be forgotten.

There is about the usual August business doing. Simple asters are now in full supply and make a great show. Beauties can now be had to supply the demand and with good length of stem. Prices range from \$1 to \$2.50 per dozen. There are a few fair carnations at from \$1 to \$1.50 per hundred. We have not heard the latest about the market, but we understand that the movement is progressing and it is almost certain to be opened on or before October 1.

S. S. Pennock has gone to spend a few weeks in the Pocono mountains and incidentally nurse his hay fever.

Robert Craig is again under the care of Dr. May, at Summit, N. J. K.

Cleveland.

CONVENTIONITES WELL PLEASED WITH THEIR TRIP.—PRAISES OF ASHEVILLE AND BILTMORE.—CLUB LISTENS TO TOURIST.—PICNIC NEXT WEEK.—VARIOUS NOTES.

The Cleveland delegation to the S. A. F. convention have all returned safe and sound, and all speak well of the trip, and the enjoyable time spent while in Asheville. At the last meeting of the club Adam Graham gave a very interesting account of what occurred at the convention, also a very minute description of Asheville and the beautiful scenery surrounding it. The beauties of that palace of the south, Biltmore, came in for a generous amount of praise. The only regret expressed by those present was their inability to get a glimpse of the interior of Biltmore's famous conservatories. The display in the convention hall from those large conservatories was sufficient to create a desire to see what remained, but it was ordained otherwise as far as the Clevelanders were concerned. Credit is due Mr. Bottomley for his efforts on behalf of the society. Robt. Kegg, F. C. Witthuen and Wm. Stade were elected to membership at our last meeting. Don't forget the picnic; it will be held at Geesen's gardens on September 4 from 2 until 10 p. m. Prizes will be awarded for the best bowling, both ladies and gentlemen. Music and dancing will be in order and the club will pay the piper.

Fred. Moritz has been exhibiting a new style wheel hoe, invented by himself, which is considered a good thing, the old order of construction in this class of machine being reversed. The knife is fastened by two arms in front of the wheel instead of the rear.

L. F. Darnell has returned from a week's vacation to his old home in Maryland. Mrs. Darnell was unfortunately called to the bedside of a sick brother in Kansas City.

Business is about the same old sing song; not much doing; weather cool, thermometer hovering around 50° at night. ECHO.

Chicago.

VERY HEAVY SUPPLIES ON A NONE TOO ACTIVE MARKET.—ASTERS IN UNPRECEDENTED QUANTITY.—QUALITIES REMARKABLY GOOD.—ROSES IMPROVING BUT LOW GRADES GO TO WASTE.—VARIOUS LOCAL AND TRADE NOTES.

The aster crop is still on the increase and the lower grades are going to waste, but quite a little of the stock now coming in will compare favorably with the best ever offered in this market. This class of goods moves fairly well, the price ranging from \$1 to \$2 per hundred. Some of the Comet and Semple's are as large and as useful as will be the early chrysanthemums, which are not now many weeks away. The light colors in asters are still the most salable, for funeral work continues to be the stand-by. Gladioli are not worrying the wholesalers so much now. There are some big heads of hydrangea coming in and the retailers find them useful for window decoration. Carnations continue to increase in supply and to lengthen in stem, but asters fill the bill for less money. Roses have shown a continued improvement in quality but the cut has lately been above requirements and in some of the houses the lower grades have gone to waste in considerable quantities. Nevertheless, there is a fairly good sale for the first quality stock, \$3 to \$4 being the prevailing price, with an occasional lot at \$5, for Brides and Bridesmaids, the stems being long and strong and the buds large and firm. Perle is also very good. Beauties still lead the demand and the supply is not above the requirements. With most of the growers this item is good for so early in the year.

George Collins is well pleased with the prospects for Liberty at Peter Reinberg's this season. The planting was largely increased, for all the one-year-old plants were dried off a very little and replanted. Mr. Collins thinks they are at their best in the second year.

Charles P. Hughes, formerly with J. B. Deamud, has returned to this city and will take charge of the shipping department of the Chicago Carnation Company, at Joliet.

Brant & Noe are pushing work on their new houses, four of them, 20x195. Mr. Brant is looking for an excellent season and the stock is in fine shape.

E. E. Pieser has returned from his outing with some big pickerel and bass as evidence of his skill in handling the rod and trolling line.

D. S. Heffron is in feeble health. He is now 86 years of age and has failed rapidly since the death of his son, Walter S. Heffron.

Miss M. A. Hammond, daughter of Benjamin Hammond, Fishkill-on-Hudson, N. Y., is staying with friends in this city.

C. H. Reed, of the Amzi Godden Company, Birmingham, Ala., with wife and daughter, left for home August 28.

Early closing is at an end for the season. Beginning Monday the wholesalers will be open to 6:30 p. m. again.

Walter Kreitling and wife have been spending a few days at Milwaukee this week.

John Pochlmann was very well pleased with his trip to Asheville.

Visitors: W. A. Reiman, Vincennes, Ind.; C. R. Paater, New Orleans; J. L. Graver, of Shotwell & Graver, Fargo, N. D.

ALEXANDRIA, IND.—The business of the Alexandria Greenhouse, E. W. Marland, manager, is in the hands of a receiver.

New York.

WHOLESALE DISSATISFIED WITH SUMMER BUSINESS.—CASH RECEIPTS LESS THAN IN RECENT YEARS.—FAIR STOCK IN MARKET.—VARIOUS NOTES.

In the wholesale cut flower trade dissatisfaction is still expressed as to the amount of business being done. Buyers are few and their purchases small, even for August days. No doubt the unfavorable comparison of present trade with that of a few years ago is largely due to the ability of the florist to-day, when located where he can have the use of even a small patch of ground, to produce for himself much of the material required for the funeral design work which is necessarily the main reliance of the retail florist in summer time. The coming of the Simple aster and the cheap gladiolus bulb, added to the cultural information so widely disseminated by the trade papers, has had much to do with the curtailment of the suburban summer trade once enjoyed by the wholesale houses, and the same causes have also had a corresponding influence on the fancy summer-resort trade, the supply of flowers for which is now generally obtained from local sources. The quality of the material offered this week in the various wholesale markets is up to the average for the season, roses being naturally small in size, coming, as the most of them do, from young plants but with acceptable color and clean foliage. Mildew weather is about due, however, and escape from the customary afflictions is not to be expected.

It is gratifying to be able to report that Mrs. A. S. Burns, who was so badly injured recently in a trolley car accident, is improving and hopes for her ultimate recovery are now entertained.

Mrs. Savin, Traendly & Schenck's faithful bookkeeper, has just returned from a two-weeks' vacation to Canada and Niagara Falls.

G. E. Bradshaw has taken a partner, J. R. Hartman, and the firm will now be known as Bradshaw & Hartman.

A. Schultheis is suffering with a sprained ankle and moves about for the present on crutches.

Siebrecht & Sons are remodeling their store at 509 Fifth avenue.

Milwaukee.

CRAFTSMEN HOLD A MEETING ABOUT BANQUET BOARD.—PLAN FOR NEXT YEAR'S CONVENTION.—NEW OFFICERS ELECTED.—NOTES.

The largest and most enthusiastic gathering of Milwaukee florists around the banquet table took place on the evening of August 26, when C. C. Pollworth was made the guest of honor in appreciation of his successful efforts in securing the S. A. F. convention for 1903. A number of the craft who were hardly luke warm on the subject until now, have enthused remarkably since it has become an established fact that the convention will surely come here. Although the meeting was arranged by Messrs. Holton and Kennedy as a social gathering complimentary to Mr. Pollworth, the favorable opportunity of making a start to business was not overlooked. Wm. Currie, who was toastmaster, managed very nicely to sandwich in between the humor and sentiment enough parliamentary practice to elect the necessary officers for the Milwaukee Florists' Club for the ensuing year. They are: President, C. C. Pollworth; vice-president, John Dunlop; secretary, Herman V. Hunkel; treasurer, Wm. Currie. The officers were constituted a tem-

porary committee to prepare a general plan of procedure to be submitted for consideration by the next general meeting, to be called at an early date by the president. Walter Kreitling, Philip Foley and several telegrams, all from Chicago, helped to fan the flames of enthusiasm.

There are no less than three florists who are making arrangements to take care of "boarders" since the closing of Whitnall's greenhouses to the retail patronage, he having made a specialty of boarding plants for several years. Those who are going into this branch are Ben. Gregory, Wm. Edelsen and Alex. Klökner.

Sweet peas are still poorly done in this market, while asters are overdone. Beauties and Meteors are now quite satisfactory. C. B. W.

Detroit.

CONVENTIONITES ALL AT HOME AGAIN AND GREATLY PLEASED WITH THEIR TRIP.—SCENERY A REVELATION TO MOST.—HOSPITABLE GREETINGS EVERYWHERE.—RAIN NEEDED AND STOCK POOR.

The visitors from this town to the convention at Asheville have all returned except John Dunn, who left the party at Knoxville, Tenn., to continue on to Natchez, Miss., to visit his sister there. Mr. Dilger separated from the party at Cincinnati and later visited Dayton and Columbus, returning home Tuesday night. Long before the Detroit delegation reached Asheville expressions of delight at the beautiful scenery along the route were often heard. We were met at the depot at Cincinnati by Mr. Peterson, who escorted us, with several members of the Cleveland party, to his greenhouse establishment and home on the heights of the city. Although the hungry visitors were a surprise to Mrs. Peterson, they did not find her unprepared, for she quickly had them surrounding the breakfast table and partaking generously of their first taste of southern hospitality. An hour was spent in the inspection of the greenhouses, interest centering upon the extensive stock of Gloire de Lorraine for which this place is noted. The convention itself, so successful in all respects, was a surprise to many and the various, enjoyable features connected with it make the stay-at-homes regret very much that they did not also participate.

We are greatly in need of rain and outdoor flowers of all kinds are poor. A fairly good demand in retail channels easily exhausts the daily supply of roses and carnations.

Visitors: A. G. Boehringer, Bay City; Mrs. Rene Cline, Logansport, Ind.

J. F. S.

St. Louis.

PLANS FOR HORTICULTURE AT THE GREAT EXPOSITION.—A SPLENDID BUILDING.—TRADE SHOWS LITTLE CHANGE BUT STOCK IMPROVES.—NOTES HERE AND THERE IN THE TRADE.

Geo. Kessler, of Kansas City, landscape gardener of the World's Fair, was in the city this week. Work in this department is expected to start in the near future. The plans proposed for the horticultural building give promise of a structure that will fully meet the requirements. It will be erected on the hill to the southeast of the administration building, known as Skinker Hill, and will command a fine view of the fair. The building is to be octagonal, with two square wings. The main edifice will be crowned by a lofty dome and the wing buildings will prob-

ably have a dome treatment also. The wing on the south end of the building will be of glass and will be used as a greenhouse. The main building will house the exhibitions of fruits and will have an area of about 160,000 square feet. Between the horticultural and the agricultural buildings will be Horticulture avenue, a terraced garden filled with flower beds and shrubbery.

The wholesale market has made a marked improvement within the last two weeks, as far as quality is concerned, but the prices have raised very little. American Beauties bring \$2 per dozen for 24-inch stemmed blooms, but not many are coming in. Asters are very plentiful and have a fairly good run. A few gladioli are still to be seen. Greens are quite plentiful. Retail business is reported as very quiet, but funeral work is quite plentiful in some sections of the city.

C. C. Sanders' new house is being partly glazed with the glass he took from the two houses that he tore down. The chrysanthemums are coming on nicely, with good prospects for some very large flowers in a couple of months. The cyclamens and Gloire de Lorraine begonias are very fine.

Theodore Miller is building an addition to his store. It will be used as a show house. Mr. Miller is fast becoming one of the leading florists of the city and commands some of the best trade.

Will Young started for the east last week. He will go to Atlantic City, N. J. for a rest. John Young and family have been at this resort for some time.

Fred. C. Weber, jr., will take an extended trip through the east on the return of his father and mother from the convention.

The Tesson base ball team will play the Bernings on September 7, on their home grounds. A good game is promised. R. J. M.

Minneapolis.

BUSINESS AND STOCK BOTH IMPROVING.—ROSES GOOD AND SELLING WELL.—VARIOUS PERSONAL AND TRADE NOTES.

Trade conditions are improving and young stock is being cut in large quantities. In tea roses Bridesmaids and Brides are abundant, while Meteor and Liberty are limited. Beauties of fair quality are in market and find ready sale. Carnations are yet outdoor picked but the flowers are good and stems fairly long. Gladioli are of excellent quality but the call for them is small. Asters are troubled with rust caused by excessive rains, so good stock is in demand. The weather conditions have improved and the later asters will probably be better.

Thos. Lynes is back from his European trip and says he had a very interesting as well as a pleasant journey.

H. Sauer & Son, of the East Side Floral Company, have added another house to their range.

Rice Brothers have been getting their store and office into shape for a busy season.

Thos. Hall will try grafted roses this year. They are looking prime now.

John Vasatka has completed his greenhouse plant on Chicago avenue.

TERRE HAUTE, IND.—Cowan Brothers & Company have rebuilt and enlarged three houses and added a new rose house 22x100, using 14x16 glass and cypress from Moninger, Chicago. Business is good and prospects are bright, for Terre Haute is booming, many new factories locating here.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements on all except cover pages,
10 Cents a Line, Azate; \$1.00 per inch.
Cash with Order.

No Special Position Guaranteed.

Discounts are allowed, only on consecutive inser-
tions, as follows—6 times, 5 per cent; 13 times,
10 per cent; 26 times, 20 per cent;
52 times, 30 per cent.

Cover space sold only on yearly contract at
\$1.00 per inch, net, in the case of the two
front pages, regular discounts apply-
ing only to the back pages.

The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines only.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

In purchasing and planting bulbs for
spring bloom, remember that Easter falls
on April 12 next year, nearly two weeks
later than last Easter.

L. E. MARGUISEE says that if bugs are
eating one's asters let him try hellebore.
It is effective, applied with a common
barrel syringe when the plants are wet
with dew or rain.

RICHARD WITTERSTAETTER, of Cincin-
nati, calls attention to the fact that
several of his recent carnation seedlings,
of Lawson parentage, produce yellowish
flowers, much to his surprise.

LEO NIESSEN, of Philadelphia, wishes
to correct the statement in Edgar San-
der's convention paper, where it is said
that Mr. Niessen is a former employe of
S. S. Pennoek. Mr. Niessen writes that
he was never at any time in the employ
of anyone in the cut flower commission
business.

We note that the paper on "Wholesale-
ing Cut Flowers," prepared by Edgar San-
ders for the Asheville convention of
the Society of American Florists, makes
mention of nearly all the Chicago whole-
salers, omitting John B. Deamud, one of
the earliest and most successful commis-
sion men in that city. It seems to us
that Mr. Deamud is too long and favor-
ably known to be ignored in an essay of
such pretensions as that by Mr. Sanders.

A Three-Quarter-Span House.

ED. AM. FLORIST:—I wish to build a
three-quarter-span house twenty feet
wide, with the long slope to the south.
I can only make the south wall three feet
six inches high. How high should the
north wall be? What should be the
length of the sash bars? D. G.

The height can vary according to con-
ditions, but it is well to have the north
wall about two feet higher than the
south one. With the north wall five feet
six inches, and the ridge ten feet six
inches, the north sash bars will be about
eight feet and the south ones fifteen feet
six inches. L. R. TAFT.

Society of American Florists.

DEPARTMENT OF PLANT REGISTRATION.

J. B. Trudo, Alderband, N. Y., registers
Carnation Wingold, result of a cross
between Mrs. Lawson and an unnamed
white. Color Lawson pink with wide
white lengthwise stripes, sometimes
white-tipped; lower petals half white,
transversely. Size, three to four inches,
very double and fragrant. Height two
feet.

The name Miss Alice Roosevelt as

applied to a carnation raised by J. B.
Trudo has been withdrawn, there being
another carnation to which the name
had previously been given. The name
now substituted by Mr. Trudo is **Bilt-
more**. It is described as a seedling from
Mrs. Lawson × Eldorado, color white,
dotted and splashed with carmine.
Flower three and one-half to four inches
in diameter, full, fringed, clove fragrance;
foliage glaucous; stems stiff; height two
feet. WM. J. STEWART, Sec'y.

Greenhouse Building.

Melrose Highlands, Mass.—John Walsh
& Son, house 20x120.

Mellenville, N. Y.—G. J. Alexander, one
house.

Buffalo, N. Y.—W. J. Palmer, three
houses.

Stockbridge, Mass.—F. S. Aymar, one
house.

Haddam, Conn.—W. A. Kinner, carnation
house.

Pepperell, Mass.—W. A. Shepardson,
one house.

Detroit, Mich.—G. W. Davis, three
houses 15x85. Robert Watson, house
18x75.

New Albany, Ind.—A. Rasmussen, one
house.

Bloomington, Ill.—W. T. Hempstead,
one house.

Louisville, Ky.—E. G. Reimers, four
houses.

North Adams, Mass.—A. J. Schmutz
house 58x75.

Hartford, Conn.—C. H. Marey, house
10x40.

Shrewsbury, Mass.—Philip W. Moen,
conservatory 20x150.

Stoughton, Mass.—Robert Hutcheon,
rose house 20x60.

Des Moines, Ia.—W. L. Morris, one
house.

Cleveland, O.—Lars Andersen, range
of vegetable houses. Robert Kegg, four
houses 22x100. Andrews Bros., two
houses 20x100.

Wilmington, Del.—Simons Bros., four
houses 24x200.

Piping a House.

ED. AM. FLORIST:—I wish to heat a
greenhouse 24x200, even-span, thirteen
feet to ridge. The house runs from north-
east to southwest, partly protected from
west wind, no glass in walls but one end
is glass. The boiler will be at the south-
west end. I have enough 1½-inch pipe
for two runs and enough 1¼-inch for
eight runs. Will the 1½-inch do for the
mains, one on each purlin and feeding
two 1¼-inch returns with 1¼-inch at the
gutter and return under the side benches?
There are two side benches three and one-
half feet wide and two center benches five
feet wide. The temperature must be 55°
when it is 15° below zero outside. Will
I need to let out the drip at 100 feet or
will it work all right for 200 feet? What
size of boiler would you advise for steam
heat without a fireman? W. H. M.

Two runs of 1½-inch pipe will hardly
be enough for this house, and the amount
of radiation described will hardly be
sufficient for economical heating. If two
runs of 2-inch pipe are put in for flows
and the pipe now on hand is used for
returns, a very effective system will be
secured. If the two 1½-inch pipes are
placed at the bottom of the wall coils,
and they are so arranged that they will
take the water from the flows, there will
be no occasion for drip pipes. A twenty
horse-power boiler, with ten feet of grate
surface, is desirable. L. R. TAFT.

Scale in Boiler.

ED. AM. FLORIST:—How shall I clear
my boiler from scale. It is a tubular fire
box boiler, used as a hot water heater.
The water is very hard and a scale has
formed all the way from one-sixteenth to
one-eighth of an inch thick. Is there a
chemical preparation either to prevent
the scale or to loosen it? Would such a
chemical in the water weaken the cement
packing in the piping in the houses?
L. M.

There are several anti-scale compounds
for use in boilers, but any that act upon
the scale would also tend to soften the
cement joints, provided they are made of
hydraulic cement. If the boiler is a large
one, so that a man can get inside, the
best thing is to knock off the scale with
a hammer and chisel. L. R. TAFT.

Flows for Hot Water.

ED. AM. FLORIST:—For hot water heat-
ing to 50° with 20° below zero outside
how many 2-inch flows will be required
under the following conditions? House
19x65, three-quarter span. Rear wall
two and one-half feet higher than south
wall. South wall sixteen inches of glass
under plate, north wall fifty-six inches
glass. Ten feet to ridge; south rafters
fifteen feet two inches long. Gable ends
glass. The flow will have to pass
through a rose house to reach this house.
What size should the flow and return be?
P. F. C.

To give a quick circulation four 2-inch
flows should be used, and with twelve
returns there will be no trouble about
securing the desired temperature. The
main flows and returns should be 4-inch.
L. R. TAFT.

Oil for Greenhouse Heating.

ED. AM. FLORIST:—On account of the
coal famine which seems likely to make
trouble this fall I should like to inquire
as to the various burners for oil under
boilers. Taking a well built range of
8,000 feet of glass, what would a burner
cost and how much oil would it consume,
say, in a twelve hour run? What kind
of oil would be required and how much
would it cost? How much attention
would such a heating apparatus require
and would it be satisfactory? B. J. P.

What is commonly known as crude
petroleum is used for fuel purposes. The
price varies with the amount used and
the distance from the oil fields, but the
average expense as compared with that
when steam lump coal is used is nearly
double, but this does not take into
account the saving in firing and atten-
tion. With oil this is practically noth-
ing, although the boiler should occasion-
ally be examined. Crauc & Company,
Chicago, can probably supply fixtures
and estimates. L. R. TAFT.

A Question of Draft.

ED. AM. FLORIST:—I had intended plac-
ing my boiler about thirty feet from
where the chimney stands, twenty-five
feet high, but I am told that I shall have
to either raise the chimney or put the
boiler closer to it to get any draft.
Please advise me. G. K.

Had the size and kind of boiler to be
used been stated it would have been pos-
sible to give a more definite answer.
However, it may be said that the condi-
tions named will be very unfavorable for
a good draft. With a direct draft in the
boiler, a large smoke pipe and a large

chimney, fairly good results might be secured. If the boiler can be placed near the chimney the height named may answer for a small boiler.

L. R. TAFT.

OBITUARY.

W. A. BOCK.

On Tuesday, August 19, Wm. A. Bock passed away, after a lingering illness, at his home in North Cambridge, Mass. Mr. Bock was a native of Hanover, Germany. He came to Cambridge in 1866 and started, in 1870, the business which he has conducted so successfully ever since. His age was 58 years. He leaves a widow and one son by his former marriage. The funeral, on Friday, August 22, was attended by many sorrowing friends in flower trade circles. Mr. Bock was kindly and hospitable and visitors at his home always found an open handed welcome.

JOHN BATHER.

John Bather, son of Mr. and Mrs. Andrew Bather, of Clinton, Ia., was drowned while swimming in the Mississippi on August 21. In company with his parents and a party of relatives and friends, the young man, for he was 23 years of age, was enjoying a few days' outing at Camp Sunnyside, on the Iowa shore, a few miles below Comanche. On the fatal afternoon a party of nine rowed across to the big bar on the Illinois shore and went in bathing. John was carried beyond his depth in a swift current and drowned before relief could reach him. The remains were recovered and interred at Clinton on Sunday, August 24. The deceased was a book-binder by trade and a most popular young man.

Boston.

SUMMER SEASON GENERALLY BELOW AVERAGE OF RECENT YEARS.—GOOD STOCK NOT OVERPLENTIFUL BUT VALUES BELOW NORMAL.—OUTDOOR STOCK VERY ABUNDANT.—NOTES AND VISITORS.

The cut flower situation has shown a certain improvement during the past week, slight but very gratifying, and some grains of comfort are the result, after a rather disappointing summer. There is a fair call for good roses and lily of the valley locally, but prices are below genuine values on most things. Kaiscrins with 18-inch stems at \$5 a hundred will not make their growers rich in a day. American Beauty had fair success last week, but this week the quality offered has deteriorated and it would seem that the demand at Newport, which has been very heavy, has had the effect of lowering the grade that reaches the Boston buyers for the time being, the cream going to the fashionable resort. There are quite a number of small roses afloat, from young bushes, which bring but little and spoil the general market, and might with wisdom be thrown away by their growers. These, at least, are clean, and this much cannot be said for most of the product from older stock, which comes in now badly mildewed and not easy to dispose of. Meteor and Liberty are also very inferior just now and have no specified value in the market. No doubt when they develop better they will resume their wonted popularity. The market for white carnations is good, notwithstanding the surfeit of white asters available, and the quality of the flowers coming in is exceptionally good. This much can-

not be said for the colored sorts, which run to an inferior brand as a rule. The market for asters, peas and the common sorts of gladioli is as dead as it can be and the enormous supply of outdoor material is not absorbed with any regularity or satisfaction. Shakespeare gladioli continues, however, to retain a goodly popularity and is really the leading variety in this market.

The annual auction sale of stalls at the Co-operative Growers' Market will be held on Saturday, September 13.

The pilgrims to Asheville are all home again, well pleased.

Visitors: Paul Berkowitz, Philadelphia; W. J. Halliday, Baltimore.

DUNKIRK, IND.—James R. Johnston has filed a petition in bankruptcy, scheduling assets of \$4,430 and liabilities of \$3,042.70.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By an experienced and successful mushroom grower; is at liberty to put in beds; now is best time. Address: J. P., care American Florist.

SITUATION WANTED—By private gardener. Fully understands growing vegetables and flowers either in greenhouse or outside. Aged 35, married. J. A. H., care American Florist.

SITUATION WANTED—By young man's hand-scaper gardener to take charge of park or cemetery; new work preferred. Good references. FRED A. WALZ, Foreman of Lincoln Park, Cincinnati, Ohio.

SITUATION WANTED—By capable florist and gardener; age 27, married; 14 years' experience; last six years in park work; in charge at present; good references. Address: B. S., care American Florist.

SITUATION WANTED—By a competent gardener, on a private place; 26 years' practical experience in all departments; married; references as to ability and character. Address: M. DALLACHIE, 21 Anson St., Jamaica Plain, Mass.

SITUATION WANTED—By a practical English gardener and florist; five years' apprenticeship from 1881 to 1886; been through all branches of the profession, both in England and America. Eastern states preferred. Address: W. DAYSON, (EXPT. STG.), Amherst, Mass.

WANTED—Man to do firing, potting, etc.; room with or without board. GIFT FLORAL CO., Richmond, Ind.

WANTED—Competent storeman. Must be sober and reliable. References required. CENTRAL GREENHOUSES, Sandusky, O.

WANTED—An assistant florist for general stock; state experience, wages expected with board and room and send references. J. L. PILLSBURY, Galesburg, Ill.

WANTED AT ONCE—Two good men, one good all-around man to grow stock and assist with day firing, and a good night fireman. Apply C. S. FOOTE, Downers Grove, Ill.

WANTED—Man for greenhouse work; carnations, chrysanthemums, etc. Wages \$10 per week. PAUL GAERTNER, West Tenth Ave., near Western Ave., Rogers Park, Ill.

WANTED—A single all-around greenhouse man, one who understands growing ferns, palms, carnations, etc. Address: J. M. GASSER CO., Euclid Ave., Cleveland, O.

WANTED AT ONCE—Thorough, all-around greenhouse man, to act as foreman, 45,000 feet of glass. Only first-class man need apply. Address: W., care American Florist.

WANTED—Second-hand steam boiler to heat 250 feet radiation; automatic regulation; must be in good repair; state lowest prices with description. G. GUY SWANGER, New London, O.

WANTED AT ONCE—A good young florist with references, to grow cut flowers and plants; also one with less experience; state wages with board. WHEELING GREENHOUSE CO., Wheeling, W. Va.

WANTED—Propagator of roses, carnations, etc. must be thoroughly first-class, no other need apply. Also a few growers of roses and carnations for sections. Good wages and steady work. LAKELAW ROSE GARDENS, Jamestown, N. Y.

WANTED—A working foreman to take charge of 22,000 square feet of glass, where first-class roses and carnations are grown, also one house of poinsettia; also one assistant. State age and wages expected, with board and washing. Apply to: JOHN L. WYLAND, De Haven, Pa.

FOR SALE—Good 15 horse-power stationary boiler, perfect order, reasonable. STAFFINGER, Springfield, N. Y.

FOR SALE—Well established greenhouse business, 12,000 feet of glass; steam heat, 100 miles from Chicago. INDIANA, AMERICAN FLORIST.

FOR SALE—First-class florist business; best location in city of 100,000, well established, no greenhouses; sickness; must change climate. Address: STORE, care American Florist.

FOR SALE—In central Massachusetts, florist and market garden place, 25 acres near new house, barn, 7,000 feet of glass, good local market and fine shipping facilities. Address: FOSTER, care American Florist.

FOR SALE—A great bargain, 3 greenhouses, 6,000 ft. of glass, well stocked with carnations, minims, roses and general bedding stock, in a live growing town in Western Pennsylvania. Address: BARGAIN, care American Florist.

FOR RENT OR SALE—At Highlands, N. Y. Three greenhouses 200 feet long, 4-story propagating house 100 feet, large potting shed, dwelling and stable; city water; steam heat. Immediate possession. Apply to: GEO. R. BINSTON, 206 Broadway, New York City.

Situation Wanted.

A young Dutchman, having been eight years in a bulb business in Holland, as book-keeper and correspondent in French, German, English and Dutch; having had experience in bulbs and plants, and also travelled this spring through the U. S. A., seeks a situation in a large seed store. Excellent references. Address: DUTCHMAN, care American Florist.

WANTED

A night fireman, single. One who has had experience in greenhouse work; must be trustworthy and of good habits. Steady job and good wages for the right man. Reference required.

J. B. HEISS, The Exotic Nurseries, Dayton, Ohio.

Wanted...

Experienced young lady to take charge of cut flower store in the Northwest; one who is thoroughly versed in all branches of the trade. State experience and salary wanted.

Address: A T K, care American Florist.

For Rent or Sale Greenhouse

(about 7,000 feet of glass), dwelling and stable, Evanston, Ill., two blocks from C. & N. W. station. Good established trade direct from greenhouse. Rent reasonable. Address:

1127 CHURCH ST., EVANSTON, ILL.

If you want to get the want you want to get, you want to get your want ad into the

AMERICAN FLORIST

Try it now.

Every advertisement represents a genuine want. It pays to answer them.

Worcester, Mass.

TRADE SHOWS STIMULUS OF APPROACHING AUTUMN.—GROWERS MOSTLY IN SHAPE FOR NEW SEASON.

Trade is gradually improving, as the vacationists are returning to the city, and bids fair to start in as early as usual. Roses are improving in quality and we are getting about all we can handle. Asters, gladioli, sweet peas and so forth are plentiful and make the color in most of the window displays. Carnations are nearly all housed and nearly double the quantity of last year has been planted. Violets in the house and field are looking fine and give promise of bountiful crops this winter.

The coal situation is worrying the growers considerably. Hard coal is now bringing from \$9 to \$10 a ton and bituminous from \$5.25 to \$5.75, and no relief in sight.

The Worcester Agricultural Society holds its fair September 1 and 2 and a large display of plants and flowers is promised.

H. A. Cook, of Shrewsbury, has torn down two of his old houses and is erecting a modern iron house for carnations. A. H. L.

LOUISVILLE, KY.—Jacob Schulz and wife celebrated their silver wedding August 23.

ESTABLISHED 1802

THORBURN'S SEEDS

FREESIAS, CALLAS, LILIUM HARRISH, ETC., ETC.

If our trade bulb list has not been received, we shall be glad to send it on application.

J. M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

Galax AND Leucothoes.

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Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.

Telephone Connections. CLEVELAND, OHIO.

Wholesale Flower Markets

MILWAUKEE, Aug. 28.

Roses, Beauty, med. per doz.	1.00@1.50
" " short "	.50@ .75
" Liberty	6.00@ 8.00
" Bride, Bridesmaid.....	2.00@ 4.00
" Meteor.....	2.00@ 4.10
" Golden Gate.....	2.00@ 4.00
" Perle.....	2.00@ 4.00
Carnations.....	1.00@ 2.00
Sweet peas.....	.15
Adiantum.....	.75@ 1.00
Smilax.....	12.00@15.00
Asparagus.....	65.00
Common ferns.....	.25

PITTSBURG, Aug. 28.

Roses, Beauty, specials.....	15.00@20.00
" " extras.....	10.00@12.00
" " No. 1.....	4.00@ 6.00
" " No. 2.....	2.00
" Bride, Bridemaid.....	1.00@ 4.00
" Meteor.....	1.00@ 4.00
Carnations.....	.50@ 1.50
Asters.....	2.50@ 1.50
Lily of the valley.....	2.00@ 3.00
Harrisi lilies.....	5.00@10.00
Gladioli.....	1.00 @ 3.00
Smilax.....	8.00@ 10.00
Adiantum.....	.75@ 1.00
Asparagus.....	35.00@40.00

CINCINNATI, Aug. 28.

Roses, Beauty.....	10.00@20.00
" Bride.....	2.00@ 3.40
" Bridesmaid.....	2.00@ 3.00
" Meteor.....	2.0 @ 3.00
" La France.....	3.00
" Kaiserin.....	3.00
Carnations.....	.75@ 1.00
Asters.....	.75@ 2.40
Gladioli.....	3.00
Lilies, album and rubrum.....	4.00
Lily of the valley.....	4.00
Asparagus.....	50.00
Smilax.....	12.00@15.00
Adiantum.....	1.00
Common ferns.....	.15

St. Louis, Aug. 28.

Roses, Beauty, medium stem.....	10.00@18.00
" Beauty, short stem.....	3.00@ 8.00
" Bride, Bridemaid.....	2.00@ 5.00
" Golden Gate.....	2.00@ 5.00
Carnations.....	.75@ 1.50
Asters.....	.75@ 1.50
Gladioli, Tuberoses.....	3.0. @ 4.00
Lily of the valley.....	4.00
Smilax.....	12.5'@15.00
Asparagus Sprengeri.....	1.50
" Plumosus.....	.75@ 1.00

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Michigan Cut Flower Exchange.

Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around. BRONZE GALAX, \$1.00 per thousand.

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A complete line of Wire Designs.

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Pittsburg, Pa.

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Our ROSES



ARE getting into pretty fine shape again, the quality improving every day and the quantity increasing. Carnations, too, are more plentiful and we are out for orders. Don't overlook our Beauties, very good for so early in the season. Get your orders in early.

E. C. AMLING,

THE LARGEST, BEST EQUIPPED AND MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

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PRICE LIST.

BEAUTIES.		
24-inch stems,	per doz.	\$2.00
20 "	"	1.50
16 "	"	1.00
12 "	"	.75
6 to 8-in.	per 100	\$4.00 5.00
		Per 100
Brides.....		\$2.00 4.00
Maids.....		2.00 4.00
Meteors.....		2.00 4.00
Gates.....		2.00 4.00
Carnations.....		1.00 1.50
Tuberoses, per doz. stalks		.75
Auratum, per doz., 1.10	1.25	
Gladiolus, per doz., 25¢ to 35¢		
Asters.....		.75 2.00
Valley, select.....		1.00
Asparagus plumosus, per strg.		.50
" Sprengeri.....		2.00 4.00
Galax.....	1.25	.15
Ferns..... per 1000,	\$1.00,	.15
Adiantum.....		.75 1.00
Smilax..... per doz.,	1.00	1.25
Prices subject to change without notice		

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600,000 FEET OF GLASS. Headquarters for American Beauty.

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Business Methods

are right you can make a profit on an advertisement here.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty..... WHOLESALE GROWER OF

CUT FLOWERS

Wholesale Flower Markets

CHICAGO, Aug. 29.

Roses, Beauty, 24-inch stems	2.00
" " 20 " "	1.50
" " 15 " "	1.00
" " 12 " "	.75
" " 6 to 8 " " per 100	4.00@ 5.00
Bride, Bridesmaid.....	2.00@ 4.00
Meteor.....	2.00@ 4.00
Perle.....	2.00@ 4.00
Golden Gate.....	2.00@ 4.00
Carnations.....	1.00@ 2.00
Asters.....	1.00@ 2.00
Gladioli.....	2.00@ 3.00
Lily of the valley.....	4.00
Auratum, per doz., 1.00@ 1.25	
Tuberoses.....	3.00@ 6.00
Asparagus, per string, 50	
Adiantum.....	.75@ 1.00
Common ferns per 1000, 1.00	.15
Galax leaves, per 1000, 1.25	.15
Smilax, per dozen, 1.25@ 1.50	

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F. F. BENTLEY, Manager,

Wholesale Commission Florists

31-35 Randolph St., CHICAGO.

Consignments solicited.....

LILY OF THE VALLEY.

Extra fine cut Valley every day in the year. Fine cold storage pips. \$1.50 per 100; \$13.00 per 1000.

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Choice American Beauties.

We will take care of your orders at reasonable prices. Prompt attention.

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During July and August will be open from 7:30 A. M. to 6:00 P. M. Saturdays, close at 1:00 P. M.

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9 CHAPMAN PLACE, Boston, Mass.
15 PROVINCE STREET.

FANCY OR DAGGER FERNS

FIRST QUALITY 50 CENTS PER 1000.
BRONZE OR GREEN GALAX \$1.00 PER 1000.

LAUREL FESTOONING, just the thing for summer decorations, only 4, 5 and 6c per yd. Discount on ferns and laurel in large quantities.



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GALAX LEAVES



Ferns, Leucothoe Sprays.

The above furnished to foreign or U. S. trade, goods guaranteed. We solicit wholesale trade.

W. A. DAVIS & CO.,
LOCK BOX 13. MARION, N. C., U. S. A.
Please mention the American Florist when writing.

GALAX Bronze or green, 75c per 1000, in 2 00 lots or over; single 1000, \$1.00. Ferns, Fancy, \$2.50 per 100; Fern, Dagger, \$1.50 per 1000. Leucothoe Sprays, bronze and green, assorted sizes, \$1 per 100. Green sheet moss, \$2.50 per bbl. bag.

L. J. KRESHOVER,
110-112 W. 27th Street, NEW YORK CITY.
Telephone call, 597 Madison Square.
HARRY A. BUNYARD, Mgr.
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Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples....

SEND FOR THIS LEAF, POSTPAID, \$1.25.

American Florist Co.,
CHICAGO.

Wholesale Flower Markets

BOSTON, Aug. 27.

Roses, Beauty, extra.....	10.00@18.00
" " " medium.....	5.00@ 8.00
" " " culls.....	.50@ 2.00
" " Bride Bridesmaid, Meteor.....	.75@ 2.00
" " extra.....	4.00@ 8.00
" " Kaiserin, Carnot.....	3.00@ 5.00
Sweet peas.....	.15@ .20
Carnations.....	.50@ 1.50
Asters.....	.15@ .50
Gladioli Shakespeare.....	2.00@ 4.00
Lily of the valley.....	2.00@ 4.00
Lilies, Harrisii.....	3.00@ 5.00
" " Japan.....	2.00@ 3.00
Adiantum.....	.75@ 1.00
Asparagus.....	.50 00
Smilax.....	12.50@18.00

PHILADELPHIA, Aug. 27.

Roses, Tea.....	2.00@ 4.00
" " extra.....	4.00@ 6.00
" " Beauty, extra.....	15.00@ 20.00
" " " firsts.....	8.00@12.00
" " Queen of Edgely, extra.....	20.00@25.00
" " " firsts.....	10.00@15.00
Carnations.....	.50@ 1.50
Lily of the valley.....	3.00@ 4.00
Asparagus.....	15.00@35.00
Smilax.....	10.00@15.00

BUFFALO, Aug. 28.

Roses, Beauty.....	6.00@25.00
" " Bride, Bridesmaid, Meteor.....	3.00@ 6.00
Carnations.....	1.50@ 2.00
Sweet peas.....	.10@ .35
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50

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Roses, Carnations and all kinds of Seasonable Flowers in stock.
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Open Day and Night.

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Best Quality CUT FLOWERS and Supplies,
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Coogan Bldg, 6th Ave. and W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock Every Morning....
DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

HARDY Cut Dagger and Fancy Ferns.
A No. 1 quality \$1 per 1000.
Brilliant Bronze and Green Galax, \$1 per 1000, in 5,000 lots.
Laurel Festooning, 4, 5 and 6c per yard. Orders by mail, telephone or telegraph promptly attended to. Discount on large orders. L. D. telephone 2618 Main.
HENRY M. ROBINSON & CO., 32-36 Court Sq., Boston.

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Telephone 1998 Madison Square 49 W. 28th St., NEW YORK.

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Are supplying the most superb stock of SUMMER FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Catleyas Gigas and Mendellii. SEND FOR QUOTATIONS.

Walter F. Sheridan,

Wholesale Florist,

Telephone 902 Madison Square.

39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square.



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RECEIVER AND SHIPPER OF FRESH CUT FLOWERS. DAILY STOCK OF ALL THE CHOICEST VARIETIES FROM BEST GROWERS WHO SHIP TO NEW YORK.

ORCHIDS, ROSES, CARNATIONS, VALLEY.

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Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.
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Choice Carnations. Selected Roses.
Traendly & Schenck
NEW YORK CITY,
38 W. 28th Street, Cut Flower Exchange.
New Telephone No. 798 & 799 Madison Sq.

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Receivers and Shippers of
FRESH FLOWERS,
111 West 30th St., NEW YORK.
Telephone 157 Madison Square.

THE RECOGNIZED HEADQUARTERS IN NEW YORK CITY FOR
Violets and Carnations
GROWERS and BUYERS make a note of this. It will be to your advantage.
WM. H. GUNTHER,
30 West 29th St., New York.
Telephone 551 Madison Square.

Wholesale Flower Markets
NEW YORK, Aug. 27.

Roses, Beauty, select.....	15.00@25.00
" " medium.....	5.00@12.00
" " culls.....	.50@ 2.00
" Bride, Bridemaid.....	.50@ 5.00
" Liberty, Meteor.....	1.00@ 5.00
" Testout, Kaiserin, Carnot	1.00@ 6.00
Carnations.....	.25@ 1.00
Lily of the valley.....	1.00@ 3.00
Lilies.....	3.00@ 5.00
Asters, per 100 bunches	1.00@3 00
" sprays.....	.25@ .75
Sweet peas, per 100 bunches,	1 00@2.00
Catleyas.....	25.00@60.00
Smilax.....	4.00@ 8 00
Adiantum.....	.50
Asparagus.....	35.00@50.00
" Sprenger, doz. bun.	2.00@3 00

Julius Lang
52 West 30th Street, NEW YORK.
REPRESENTS THE BEST GROWERS OF
ROSES, CARNATIONS, VALLEY.
TELEPHONE 280 MADISON SQUARE.

Frank Millang
Open from 6 a. m. to 5. p. m.
Cut Flower Exchange, 55-57 W. 26th St.
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RELIABLE AT ALL SEASONS.
Best Flowers.
REASONABLE PRICES.

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A full supply daily of the choicest New York and New Jersey
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COMMISSION FLORIST,
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OPEN 6:00 A. M.
An Unequaled Outlet for Consigned Flowers.

...GEO. M. KELLOGG...
Largest Grower of... Cut Flowers
In the West.
Give us an order and we will please you.
Our Greenhouses at PLEASANT HILL, MO.
Our Store, 906 Grand Ave., KANSAS CITY, MO
LONG DISTANCE PHONE AT EITHER PLACE.

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CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Secy and Treas.

VISITED NEW YORK: Mr. Stephens, the Bermuda lily bulb man.

REPORTS on Saginaw pea crops are for lower percentage than first expected.

ALBERT McCULLOUGH, of J. M. McCullough's Sons, Cincinnati, is visiting Baltimore and Washington on business.

J. OTTO THILOW, with Henry A. Dreer, Philadelphia, passed through Chicago August 28, enroute to Denver, Colo., where he will spend his vacation.

THE Caladium esculentum crop in the south, while retarded by the drought, is above the average in acreage and should produce enough to go around.

ALBERT DICKINSON, Chicago, has given \$500 to the Rural Home and School for Boys, at St. Charles, Ill., in which John W. Gates and many prominent Chicago men are interested.

THE New York Market Gardeners' Association, Richmond Borough, New York, has issued a circular asking support for H. R. Resolution No. 249, asking particulars relating to purchase and distribution of seeds for the past four years.

C. H. WALKER has severed his connection with the Springfield Seed Company, of Springfield, Mo., and gone to Oklahoma City, Okla., where he will establish a wholesale and retail seed business.

In reply to a recent inquiry, W. Atlee Burpee states that the seed trade, in all three branches, promises to be extremely good for the season of 1903. In fact this year it will not be a question of demand, but altogether one of supply. Many items, notably peas, certain beans, all vine seeds and probably tomatoes will be in such terribly short supply as to amount practically to a famine.

Nebraska Seed Crops.

The reports from the Nebraska vine growing section are going to be more discouraging. The latest report we received this week reads as follows: "Vine seed crops are looking worse and worse although the melon louse or aphid seems to have been killed by the cold weather. Crops are too far gone to recover. There are a few crops of cucumber that may make something yet, but many of the crops are just as thoroughly cleaned out as though they had been ploughed up."

Californians Claim Too Much.

A recently issued seed circular from a newly established firm at Los Angeles, Cal., quotes from Mr. Burpee as noted below and elicits the following pointed letter from that usually mild gentleman:

Of course you are perfectly right in doing all that you can consistently to boom California, but I must protest fully as to the quotation you give in black-faced type as coming from me. I never made such a statement and such a statement is not true. I should like very much to know what authority you have when you state that I "was recently frank and honest enough to state in public print as follows: We depend almost wholly on California for seeds."

There are certain varieties of seeds produced extensively in California which we never under any consideration handle, as our experience has shown that good as California is in other lines these varieties are not nearly equal to seed grown elsewhere. You will find one statement of this nature on page 27 of this year's catalogue.

I anxiously await your answer as to in what

"public print" you found such a statement purporting to come from me and I shall of course rely upon you to withdraw such a statement when I tell you, as I do, that it is entirely without foundation.

The seed business would be comparatively simple in its character if we could rely "almost wholly" on any one section for our seed supplies.

Very truly yours,
(Signed) W. ATLEE BURPEE.

Lenox, Mass.

HORTICULTURAL SOCIETY HAS A FINE SHOWING OF SUMMER FLOWERS.—NOTES OF AWARDS.

At the regular meeting of the Lenox Horticultural Society on August 16 an exhibition of annuals and perennials was held. J. Dallas was first for a collection, staging over 100 vases, which made a magnificent display. His vases of Groff's

hybrid gladioli, phloxes, dianthus and asters were especially fine. A. H. Wingett was second, with a smaller group. In his collection excellent vases of Newport scarlet larkspur and sweet peas were shown. Miss H. Parish was first for gladioli.

There was a large attendance of members and an interesting evening was spent. The society has decided to hold a two days' exhibition in October, also to hold a field day in the first week in September for the benefit of members and friends.

A diploma was awarded to R. A. Schmidt for collection of fringed begonias, and vote of thanks for pentstemons. L. Carlquist staged *Cercus grandiflora* and an excellent collection of dahlias.

Lilium Harrisii.

We have a splendid lot of late dug bulbs that have just arrived. On account of late digging bulbs are splendidly ripened and are unusually fine. The season has been very favorable, and it is a long time since we have been able to offer such fine stock. Bulbs are plump and hard, and that bright golden yellow color which denotes a well ripened and healthy bulb. Bulbs run unusually large and are in the best possible condition. We offer them as long as unsold as follows: 6 to 7-inch bulbs, \$17.50 per case of 850 bulbs; in less quantities, \$6.00 per 100. 7 to 9-inch bulbs, \$30.00 per case of 200 bulbs; in less quantities, \$11.00 per 100. 9 to 11-inch bulbs, \$22.00 per case of 100 bulbs; in less quantities, \$22.00 per 100.

We also have a fine lot of BERMUDA-GROWN LONGIFLORUM

Late dug bulbs, shipped by last Bermuda Steamer, which arrived this week. This is an extra fine lot of selected bulbs. 7 to 9-inch bulbs, \$20.00 per case of 200 bulbs; in less quantities, \$11.00 per 100.

CALLAS.

We have a grand stock of these splendidly ripened bulbs ready for immediate shipment.

Extra quality bulbs, 1 1/4 to 1 1/2 inches diameter	..... \$5.00 per 100	\$40.00 per 1000
Selected bulbs, 1 1/4 to 1 1/2 inches diameter	..... 6.00 per 100	60.00 per 1000
Mammoth bulbs, 1 1/2 to 2 inches diameter	..... 8.00 per 100	70.00 per 1000
Exhibition bulbs, 2 to 3 inches diameter	..... 10.00 per 100	

We can also ship immediately on receipt of order the following:

WHITE ROMAN HYACINTHS Finest quality bulbs, 12 to 15 cm. in circumference, \$3.00 per 100; \$26.00 per 1000.

NARCISSUS PAPER WHITE GRANDIFLORA \$1.00 per 100; \$9.00 per 1000.

BERMUDA BUTTERCUP OXALIS 75c per 100; \$6.00 per 1000.

FREESIAS Selected bulbs, 1/2-inch and up in diameter, 75c per 100; \$6.00 per 1000.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

The Everett B. Clark Co.

WHOLESALE GROWERS AND DEALERS IN

Garden Seeds

SPECIALTIES:

**ONION, Southport Globes,
Turnip Seed and Sweet Corn, also
Beet, Parsnip, Carrot, Cabbage.**

With an experience of thirty-five years in selling and labeling our crops as **STRICTLY NEW ENGLAND GROWN**, the Seedsman can answer all questions without flinching when asked by the market gardener where the seeds were grown.

The Everett B. Clark Co., Milford, Conn.



MASTERPIECE.

"Vaughan's International" Primrose Mixture.

Unquestionably the best mixture of Chinese Primroses. It contains the largest variety of the best selling colors. Flowers large, beautifully fringed, borne in large clusters well above the rich green leaves. Pat. (25) seeds 50c; 5 pkts. (1250 seeds) \$2.00.

Cineraria VAUGHAN'S COLUMBIAN MIXTURE. A mixture of the best English and German strains unsurpassed. Pkt. (1000 seeds) 50c; 3 pkts. \$1.25.

Cineraria HYBRIDA, large flowering, white blood red or crimson, double white or best double mixed, each, per trade pkt., 5c.

MIGNONETTE, TRUE MACHET. Trade pkt., 10c; 1/2 oz., 25c; 1 oz., 50c; 2 ozs., 75c; 1 lb., \$1.25.

CALCEOLARIA HYBRIDA, choicest mixture, pkt. 50c.

PANSIES

VAUGHAN'S "INTERNATIONAL"

Received the only reward for Mixed Pansies at the World's Fair. It is to-day better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence as all the florists who saw or used it can tell you. Price per oz., \$10.00; 1/2 oz., \$5.00; 1/8 oz., \$1.50; trade pkt., 50c.

VAUGHAN'S "GIANT MIXTURE."

This mixture is specially made by us from all the separate colors of Giant Trimardeau, the Giant Bugnot and Cassier and several special strains which cannot be had any other way. If your trade demands large flowers there is no better mixture. Price, 1/4 lb., \$14; oz., \$4; 1/2 oz., \$6; td. pkt., 25c.

MASTERPIECE--New Giant Curled.

This strain comes nearer to "Double Pansies" than anything ever introduced under that name. In reality the number of petals is the same as that in other Pansy flowers, but they are crumpled and curled in such a fashion that the flowers appear double. The flowers are of enormous size, often 3 inches across, and the color variations and combinations are odd and striking. Pkt. 50; 1/2 oz., \$1.00.

	Trade Pkt.	1/2 oz.	Oz.
GIANT WHITE , very large, with violet eye.....	10	20	20
BLACK , large true black.....	10	20	1 25
BEACONSFIELD , upper petals light lavender, lower ones deep rich purple, a most dark.....	10	20	1 20
PRESIDENT CARNOT , white and each petal is almost covered with a deep rich velvet blotch of dark violet blue.....	15	35	2 25
PRESIDENT MCKINLEY , deep golden-yellow, each petal has a large blotch of dark violet.....	25	45	2 00
"FIERY FACES" , very rich scarlet with a gold edge and yellow center.....	25	45	3 00
STRIPEO , mahogany, striped, mottled and flaked white.....	10	20	1 20
PARISIAN STRIPEO , stripes are broader and longer than the preceding; a good seller.....	10	25	1 60
EMPEROR WILLIAM , dark navy-blue, good form.....	10	20	1 25
YELLOW , immense flowers with dark eyes.....	10	20	1 25
TRIMARDEAU , mixed.....	10	20	1 00
PARIS MARKET , an improved strain of Trimardeau, with better flower and of compact habit.....	10	25	1 50
BUGNOT , the flowers are of enormous size, perfectly round, of great substance. Our "Bugnot" contains shades of red, bronze and red-dish-brown.....	25	50	3 50

10 PER CENT discount on flower seed orders amounting to \$2.00 and over for Cash with order

VAUGHAN'S SEED STORE, 14 Barclay Street New York. 84-86 Randolph St. Chicago.

Please mention the American Florist when writing

H. Wrede, LUNEBURG, GERMANY PANSY SEED.
 155 First Prizes, the highest awards Chicago, Hamburg 97, Paris 1900 1000 seeds, finest mixed, 25c. 1 oz. \$2.25
 Price List on application Cash with order
 Please mention the American Florist when writing.

PANSY SEED. The Jennings Strain.
 of High Grade Pansy Seed now ready. Stock this season is the finest I have ever grown. Finest mixed, \$1 per pkt; \$3 per 1/2 oz.; \$5 per oz. Separate colors in red, white, blue, black and yellow, 50c per pkt. Pansy plants ready Sept. 1. Cash.
E. B. JENNINGS, Lock Box 254, Southport, Conn.
 Grower of the Finest Pansies.

PANSY SEED Superior Strains, Imported Direct from Best Growers.
 Choice named varieties, per 1/2 oz., 75c; 1/4 oz., \$2.50. " mixture, select seed 20 vnr., t. pk., 35c; oz., \$4. Giant Trimardeau, high grade mixture, 75c. Cassier's Giant, choice mixture, per oz., \$2.50. Mammoth Butterfly, very fine, 1000 seeds, 25c.
JAS. C. MURRAY, Seedsman, PFORIA, ILL.

FAXON'S "WHITE HOUSE" PANSIES.
 The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture. In Trade Packages at \$1.00 each.
M. B. FAXON, Lock Box 1528, BOSTON, MASS.
 Correspondence solicited.

SMILAX Fine plants, worth planting, from 2-in. pots, \$1.50 per 100.
OTTO HANSEN, 1056 N. 62d Ave., Chicago.

MARIE LOUISE VIOLETS
 CLEAN HEALTHY PLANTS, \$2.00 per 100; \$20.00 per 1000.
JOHN B. RUDY, ELMIRA, N. Y.

Princess of Wales and Lady Campbell
VIOLET PLANTS.
 Strong field-grown clumps from sand struck Cuttings Ready September 1, \$5.00 per 100; \$45.00 per 1000; Samples 10 cents.

The Albert H. Brown Co., Westboro, Mass.
GRAND RAPIDS VIOLETS
 Field-grown Lady Campbell and Swanley White at \$4.00 per 100 \$35.00 per 1000. Sample 10c. Cash with order.
ELI CROSS, GRAND RAPIDS, MICH.

Violets MARIE LOUISE specially grown for forcing. These are from cold frame, free from disease and insects, and are in first-class condition for planting during August Per 100, \$3.50; per 1000, \$30.00.
W. H. THOMAS, Convent Station, Morris Co., N. J.

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Strong 3-inch Roses
 Exceptionally fine healthy stock at special very low prices to make room.
 Brides and Maids, 3 inch..... \$40.00 per 1000
 Golden Gate, very choice, 3-inch..... \$5.00 per 1000
 Met-ors, 3-inch..... 3.00 per 1000
 Brides and Maids, 2x3-inch..... 20.00 per 1000
 SPECIAL OFFER—100 AT 1000 RATES.
Carnations.—Marquis, Joost, Triumph, Jubilee, Scott and Arasazini, fine field plants, \$5 per 100; \$45 per 1000. Mrs. Braut, \$7 per 100; \$60 per 1000.

W. H. Gullett & Sons, Lincoln, Ill.
VIOLETS
LADY CAMPBELL.
 Field-grown, strong, and from healthy stock, free from disease, \$4 per 100; \$35 per 1000.
E. R. LOWE, 42 Summer Street, W. ROXBURY, MASS.

10,000 Lady Violets CAMPBELL
 For Sale Fine healthy plants, \$1.00 per 100. Sample sent if desired.
E. WOOD, Lexington, Mass.

VIOLETS.
 Large field-grown clumps, L. H. Campbell, Imperial, Princess of Wales and California, \$5.00 per 100; \$45.00 per 1000.
Christmas Pepper, 3 1/4-inch, ready for 6-inch, \$3.00 per 100.
Parsley, large delf-grown clumps, 40c per 100; \$2.50 per 1000.
Smilax, 2 1/4-inch, large bushy plants, \$1 per 100.
J. C. SCHMIDT, BRISTOL, PA.
 Please mention the American Florist when writing.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. ILGENFRITZ, Props.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.
Twenty-eighth annual convention, Detroit, Mich., June, 1903.

An innovation in cemetery management is the advertising now being done by the Elmwood Cemetery Company, Chicago. Eight-sheet lithographs are shown on the bill boards announcing "Beautiful Elmwood, the new park plan cemetery" and inviting all interested to "send for booklet." George H. Scott, for fifteen years at Rose Hill Cemetery, Chicago, is superintendent of the new tract, which includes 350 acres eight and one-half miles northwest of the city hall.

American Cemetery Superintendents.

The sixteenth annual convention of the Association of American Cemetery Superintendents was held at the Copley Square Hotel, Boston, Mass., August 19 to 21, visiting Lynn and Salem August 22.

The convention was called to order Tuesday morning by the president, Frank Ulrich, and prayer was offered by Rev. C. H. Spaulding, D. D., after which the president read his annual address and the secretary and treasurer, Jas. H. Morton, submitted his report for the year. Twenty new members were enrolled. J. J. Doyle, chairman of the board of aldermen of the city of Boston, on behalf of Mayor Collins, extended a cordial invitation to the members of the association to visit the places of interest in and about Boston. The president appointed the following committees: Auditing, E. L. Kimes, Henry Church and W. Perry Goodwin; general resolutions, Wm. Salway, G. W. Painter, H. C. Chamberlain; location, A. W. Hobart, J. W. Keller and Robert Scrivener. A general discussion followed.

The entertainment for the afternoon consisted of visits to King's Chapel, Granary and other noted burial grounds, to Boston Common and the Public Garden.

The convention in the evening was held at the same place at 8 p. m. Leonard Ross delivered an impromptu address relative to "Old Cemeteries of Boston," followed by J. H. Morton on the same subject. A. W. Hobart read a paper entitled "Respect for the Dead and Justice to Their Descendants," after which there was a general discussion. Mr. Hargraves, superintendent of Forest Hills Cemetery, addressed the meeting. The secretary reported the demise of two members of the association during the past year, namely, Ezekiah Hume, of Brighton, Pa., and B. B. Morehouse, of Cortland, N. Y., and a committee to pass resolutions on the deaths of said members was appointed, consisting of T. H. Wright, George Van Atta and George W. Voorhees. The meeting then adjourned.

Wednesday morning visits were made to Harvard College and to the Botanical Gardens, at which place the curator, Robert Cameron, read a very interesting paper on "The Herbaceous Border." In the afternoon Mt. Auburn and Newton cemeteries were visited and return to the city was made by way of the Commonwealth avenue boulevard.

The evening session was held at 7:30. H. D. Litchfield read a paper entitled "From the Undertaker's Point of View;" W. B. Van Amringe read a paper entitled "Progress of the Cemetery Memorial Industry During the Past Twenty Years;" C. W. Ross' paper entitled "Road Build-

ing" was read by his son, H. Wilson Ross; and Oscar L. Stevens, of the *Boston Transcript*, read a paper entitled "Cremation." All of the papers were exceedingly interesting and called forth a general discussion. The meeting then adjourned.

Thursday morning the convention was called to order at 9 a. m. A paper by W. N. Rudd, entitled "Some Mistakes," was read and Thomas White read one on "Extremes in Cemeteries." The papers were excellent and a general discussion followed. The meeting then adjourned.

In the afternoon a very beautiful drive was enjoyed. Carriages were taken at the hotel and the members were driven through the park system of Boston. Visits were made to Arnold Arboretum, Franklin Park, Forest Hills Cemetery and Forest Hills Crematory, after which Mount Hope Cemetery, under the supervision of J. H. Morton, was inspected. The members were then driven back to the hotel.

The evening session was called at 7 p. m. Archibald Smith read a paper entitled "Grasses" and J. A. Pettigrew one entitled "Notes on Tree Planting." A general discussion followed. At this meeting the following officers were elected for the ensuing year: President, H. Wilson Ross, Newton, Mass.; vice-president,

J. C. Dix, Cleveland; secretary and treasurer, J. H. Morton, Boston. It was decided to hold the next convention, that of 1903, at Rochester, N. Y. The executive committee appointed by the president for the ensuing year consists of J. W. Keller, Rochester; John Meisch, of Rochester, J. H. Sheperd, Syracuse, and Frank H. Sheard, Rochester. The meeting then adjourned.

Friday morning, August 22, the members assembled at the North Union Station at 9:30, where special cars were taken to Lynn, where Pine Grove Cemetery, in charge of William Stone, was visited. The cars were then taken for Salem, and Harmony Grove Cemetery, in charge of George W. Cressy, was inspected. The electrics then conveyed the members to Salem Willows, where a shore dinner was enjoyed and an excellent view obtained of the Atlantic ocean, which to many was a novel and interesting sight. Return to the city was made by car, it being reached about 9 o'clock p. m., and the convention in Boston was at an end. Everyone seemed to have thoroughly enjoyed the visit to Boston and voted it an excellent convention city.

WARE, MASS.—Chas. F. Clark will open a new store as soon as building is completed.

B. & A. SPECIALTIES

ENGLISH MANETTI.....\$12.00 per 1000
FRENCH MANETTI.....\$10.00 per 1000

ASK FOR FALL CATALOGUE NOW READY.

BOBBINK & ATKINS, Rutherford, N. J.

Strawberry Plants.

FROM POTS. Well established young plants of Clyde and Wadfield, (both immense croppers), for planting now and in August. Warranted to produce a full crop of the finest berries next spring. Price 50c per doz.; \$3.00 per 100.
P. S.—100 planted now will give an ordinary family all they can use.

F. A. BALLER, BLOOMINGTON, ILL.

SPECIALS FOR THIS FALL.

5,000 Spiraea Anthony Waterer, 2 to 3 feet.
5,000 Althaea, double, named, 3 to 5 feet.
5,000 Vinca Major Var., field stock.
5,000 Shrubs and Vines, 2 and 3 years old.
50,000 Caneos, leading sorts, including three best pink caneos.
10,000 Field Clumps Violets, California and L. H. Campbell, for Fall delivery.

Ready Now, from 2 1/2-inch Pots.

Marie Louise, L. H. Campbell and Swanley White, good stock, \$3 per 100; \$5.00 per 1000. California, from soil, \$1.00 per 100. Cash please.

BENJ CONNELL, West Grove, Pa.

Cyclamen Giganteum!

Extra Strong, 3-inch, \$5.00 per 100.

Cineraria Grandiflora, finest dwarf, \$2.00 per 10; 30 for \$5.00.
Chinese Primrose, \$2.00 per 100. Cash.

J. W. MILLER, HATTON, PA.

NEW FRUITS.

Golden Mayberry, strong transplants,	100	1000
Iceberg Black-berry, "	\$4.00	40
Rathbun Blackberry, "	3.00	25.00
Cumberland Raspberry, "	3.50	30.00

The Conard & Jones Co, West Grove, Pa.

Park Architects and Dealers

will find whatever they want in the

Holland Nurseries, DeBilt near Utrecht HOLLAND.

SPECIALTIES ARE: Conifers, Evergreens, Hardy Shrubs, Lilacs, Ornamental Trees, Fruit Trees in different forms, Azaleas, Rhododendron Ponticum and Hybridum.

Please send list of your wants and write for general catalogue. We will make you special offers. Write to

GROENEWEGEN & ZOON, De Bilt, near Utrecht, Holland.

50,000

AZALEA AMENA

\$12.50 per 100, \$100.00 per 1000.

10,000 AMPELOPSIS VEITCHI AND WISTARIA SINENSIS, \$4.00 per 100; \$25.00 per 1000.

YUCCA FILAMENTOSA, \$1.50 per 100; \$10.00 per 1000.

Send for trade list of seedlings and ornamental stock.

SAMUEL C. MOON, Morrisville, Pa.

ROSES Extra Strong and Healthy Plants. 60 Brides, 4 inch, at \$3.25. 200 Brides and 200 Maids 3-inch, \$4.00 per 100.

ASPARACUS SPRENGERI,

1 year old, very strong and thrifty, from 4-inch pots, \$8.00 per 100; from 5-inch pots, \$12 per 100.

CASH WITH ORDER.

W. M. Stertzing, Florist, St. Louis, Mo. MAPLEWOOD P. O.

It is good business policy to mention

The... AMERICAN FLORIST

When you write to an advertiser.

Dreer's Offer of Cibotium Schiedei



ARAUCARIA EXCELSA GLAUCA.

- 5-inch pots, 8 to 10 inches high, 2 tiers \$.75 each
- 6-inch pots, 12 inches high, 2 to 3 tiers 1.00 each
- 6-inch pots, 15 inches high, 3 tiers 1.25 each
- 6-inch pots, 18 inches high, 4 tiers 1.50 each

If you have never tried this beautiful Fern in fine decorations or as a house plant, you should become acquainted with it at once. Its points of merit are so many that you cannot afford to be without it. It possesses a graceful, delicate habit unlike any other plant and while its appearance is that of being very soft, it is really as hardy as any of the commercial Palms. We have a fine stock of it this season and offer heavy plants as follows:

- 5-inch pots, \$1.00 each; \$10.00 per dozen.
- 7 inch pots, 1.50 each; 18.00 per dozen.
- 9 inch pots, 3.00 each; 36.00 per dozen.

The 7 and 9-inch pots are beautifully finished plants, suitable for decorative work.

Special Offer of Araucarias.

We have in stock about twelve thousand Araucarias, on which we are in a position to offer special values. It will pay you to procure your next winter's supply now and not only gain the benefit of the summer's growth, but also cheap transportation rates, as these plants can be safely shipped by feet freight during the summer months.

ARAUCARIA EXCELSA.

- 5-inch pots, 8 to 10 inches high, 3 tiers \$.50 each
- 6-inch pots, 10 to 15 inches high, 3 to 4 tiers75 each
- 6-inch pots, 16 inches high, 4 tiers 1.00 each
- 8-inch pots, 20 inches high, 4 to 5 tiers 1.25 each
- 7-inch pots, 24 inches high, 4 to 5 tiers 1.50 each

ARAUCARIA ROBUSTA COMPACTA.

- 6-inch pots, 10 inches high, 2 to 3 tiers \$1.25 each
- 6-inch pots, 12 inches high, 3 tiers 1.50 each

HENRY A. DREER, 714 CHESTNUT STREET, PHILADELPHIA, PA.

IVORY, or White Golden Gate. TRUE STOCK

Strong 4-inch pot plants, \$6.50 per 100; \$60.00 per 1000.

Strong 2 1/4-inch pot plants, \$3.00 per 100; \$25.00 per 1000.

W. A. Hammond
107 E. Broad St., Richmond, Va.

Asparagus.

50,000 Asparagus Plumosus Nanus, extra strong bright clean plants, 2 1/2-inch, \$3.50 per 100.

Sprengeri, fine strong plants, 2 1/2-inch, \$3.00 per 100.

Boston Ferns, 2 1/2-inch, \$3.00 per 100; 8-inch, 75c each.

25 Fine Rubber Plants, 3 feet, \$1.00 each. The lot for \$20.00.

CASH PLEASE.

A. J. BALDWIN, NEWARK, O.
ROSE PLANTS.

CLEARANCE SALE—Brides, Bridesmaids and Mothers, \$3.00 per 100; \$29.00 per 1000. Repeated three times. Elegant stock. Never offered better plants. Unknown parties cash with order.

BRANT & NOE, FOREST GLEN, CHICAGO.

ROSES FOR WINTER FLOWERING.

BRIDESMAIDS, MME. HOSE, SAFRANO, GOLDEN GATES,
3-inch pots, \$6.00 per 100.
GOLDEN GATE, very fine, \$12.00 per 100.
BRIDESMAID, 3 1/2-inch pots, \$12.00 per 100.
IVORY, American Rose Co.'s Stock, \$15.00 per 100.
J. L. DILLON, Bloomsburg Pa.

Cut Gladiolus Spikes

of the HIGHEST QUALITY, in lots of from 100 to 100,000. Pick, scarlet, crimson, white, light, yellow, blue, lavender and heliotrope; in fact, almost every shade imaginable.

Write for prices and particulars, stating your requirements.

ARTHUR COWEE, "Meadowvale Farm," Long Dist. Phone, **BERLIN, N. Y.** U. S. Representative and Grower of **GROFF'S HYBRIDS.**

Watch this space for bulb advertisement later.

BARGAIN! ROSE PLANTS

Five Thousand Strong, Vigorous, Healthy.

	100	1000
BRIDESMAID, 3-inch	\$4.00	\$35.00
2 1/2-inch	3.00	25.00
GOLDEN GATE, 3-inch	4.00	35.00
2 1/2-inch	3.00	25.00
BRIDES, 3-inch	5.00	45.00
A few PERLES and BEAUTIES, 3-in.	5.00	45.00

A. C. BROWN,
Successor to Brown & Canfield,
SPRINGFIELD, - ILL.

'Dryden'

Geranium, the finest of all bedders, 3 1/4-in. pots, \$8.00 per 100; 2 1/2-in., \$4.00 per 100. Cash please.

HENRY EICHHOLZ, Waynesboro, Pa.

ROBT. CRAIG & SON,
Roses, Palms
and Novelties in Decorative Plants,
Market and 49th Sts., Philadelphia, Pa.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

ASPARAGUS PLUMOSUS

Extra fine 2-inch stock, \$3.50 per 100; \$30.00 per 1000. 2 1/2-inch, \$4 per 100; \$35 per 1000.

Pansy Seed

1892 GIANT OF CALIFORNIA. \$1.00 per ounce, 1/4 ounce at same rate.

FIELD-GROWN CARNATIONS.

QUEEN LOUISE..... \$7.00 per 100.
MERMAID..... 6.00 per 100

Loomis Floral Co.
LOOMIS, CAL.

THE Gardeners' Chronicle.

A Weekly Illustrated Journal.

ESTABLISHED 1841.

THE GARDENERS' CHRONICLE has been FOR OVER SIXTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, the information furnished is of such general and permanent value that the GARDENERS' CHRONICLE is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, \$4.20 per year. Remittances to be made payable to H. G. COVE.

OFFICE:—
41 Wellington St., Covent Garden, London, England.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

Convention Gunners' Contest.

My attention has been called to an error in the scores of the team shoot at Asheville, no doubt due to the haste with which it had to be gotten off to be in time. W. A. Hammond is credited only with 44 broken targets when he made the fine score of 47, and Reid is credited with 37, which should have been 33, making our total 258.

A. B. CARTLEDGE.

Syracuse, N. Y.

STATE FAIR TO HAVE LARGE HORTICULTURAL DEPARTMENT.—FLORIST TO BE SUPERINTENDENT.—UTICANS TO COME.—PIGEON FANCIERS.—NOTES.

Syracuse florists are just now occupied with thoughts of their exhibitions at the New York State Fair, which will be held here from September 8 to 13. Robert H. C. Bard, of P. R. Quinlan & Company, is superintendent of the horticultural department. His opinion is that the exhibits of flowers and plants will be unusually large and of superior quality. The judges are William Mathews and F. J. Baker, of Utica. The prizes offered run as high as \$75 and the classes are much the same as last year.

R. H. C. Bard is a crack shot and can teach Syracuse sports something about the use of a gun. His latest fad is a splendid loft of homing pigeons and he means to equal Henry Bellamy, of Marquisee's, also a great pigeon fancier. Mr. Bellamy has a famous strain.

During the week of the fair, the Syracuse florists will entertain for a day the florists from Utica, returning the compliment which the Utica men paid them a couple of weeks ago by giving them a bang up good time in the "pent-up" city.

A. J. B.

Knoxville, Tenn.

NORTHERN FLORISTS STOP ENROUTE FROM THE CONVENTION.—GREENHOUSE ESTABLISHMENTS VISITED.

After the adjournment of the convention at Asheville, a large party of the tourists came to Knoxville, spending several hours in visiting different points of interest in and about the city. Among the party stopping over in Knoxville were E. G. Hill, of Richmond, Ind.; Mr. Good, of Good & Reese, of Springfield, Ohio; E. G. Gillett, of Cincinnati, O.; James Hartshorne, of Joliet, and others. A number of the visiting florists were accompanied by their wives and families.

After a ride around the city, visiting many points of interest and vantage the whole party visited the establishment of Charles Crouch, on the Danville pike, where they found thirty-three greenhouses and were surprised at the extent and efficiency of the place. Some of the party drove out to Charles Baum's greenhouses, at Wildwood, and there they found many large houses.

Messrs. Charles Crouch and Charles Baum, the leading florists at Knoxville, were in attendance at the convention at Asheville. Mr. Crouch speaks in excellent terms of the meeting.

Newport, R. I.

SOME ELABORATE DECORATIONS FOR DINNERS AND DANCES.—BEAUTIES THE FAVORITE FLOWER.—MANY WATER LILIES USED.—VARIOUS NOTES.

The first dinner dance of the season was given by Mr. and Mrs. E. J. Berwind, at "The Elms." When 300 guests, with an orchestra, find space in a mansion an idea may be formed as to the part a florist has to assume in the arrangements. The west terrace on this structure measures 193 feet, the ball room 50x45. The interior floral decorations were in charge of Bruce Butterton, the gardener on the estate, assisted by the Hodgson Company. American Beauty roses were used exclusively in the ball room. The extensive greenhouses of the estate not being equal to the demand, Carl Jurgens supplied 1,000 Beauty roses. In the dining room on each table was a centerpiece of white and red roses.

Another recent ball deserving of notice was given by Mr. and Mrs. Pembroke Jones. The elaborate floral decorations were by Hodgson, American Beauty roses being used by hundreds in the several rooms. In the ballroom over 10,000

water lilies were arranged in streamers on the side walls and ceilings, while white roses and tall stalks of hollyhocks in profusion were banded from the floor to the stage proper. Gardenias were supplied to the ladies.

Butler & Son executed the floral work at the Hazard Memorial School on the occasion of the reception to Cardinal Gibbons. The display of the papal colors, yellow and white, proved a striking addition.

The Newport Agricultural Society has elected officers for the current year. Its annual fair will be held September 23 to 26, in the new hall, Portsmouth.

F. L. Ziegler, formerly with the Geo. A. Weaver Company, and now hustling for "No. 1" at 18 Broadway, reports a fair business as seedsman and florist.

John H. Cox, formerly of Boston, a veteran in the seed business, now stands behind the counter of the Geo. A. Weaver Company. C. J. M.

BRANDON, MAN.—Fred. Mansoff was flooded out at his old location, saving little stock, but is building two new houses 20x100 up town.

Tramp Steamers and Airships...

are not aware that **DEAMUD** is in the Wholesale Cut Flower business, but **live Florists** know that they can get everything in their line from.....

J. B. DEAMUD, 51 and 53 Wabash Avenue,
CHICAGO.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.

PALMS.

KENTIA BELMOREANA, 2½-inch pots, \$8.00 per 100.
" " 3-inch pots, \$15.00 per 100
" " 24 to 28 in., fine bushy plants, \$1.25 each; \$15.00 per doz.
" " 30 to 32 in., perfect condition, \$1.75 each; \$20.00 per doz.
ARECA LUTESCENS, 3-inch pots, (3 plants in pot), \$12.00 per 100.
" " 6-inch pots, (3 plants in pot), 24 inches high, \$70.00 per 100.

FERNS from 2¼-inch pots.

PTERIS TREMULA, a large stock of this in excellent shape, short stocky plants ready for shift. Always in good demand from any size pots, \$2.50 per 100.
PTERIS Adiantoides, **Pteris Cretica** Albo-Lineata, **Pteris Alexandrae**, **Pteris Ouvardi**, **Pteris Serrulata**, each, \$2.50 per 100.
ONYCHIUM JAPONICUM, \$3.00 per 100.
ADIANTUM PUBESCENS, \$3.00 per 100.
Good assortment of **FERNS**, our selection of varieties, \$20.00 per 1000.

ASPARAGUS.

PLUMOSUS 2½-inch pots, \$4.00 per 100; 3-inch pots, \$6.00 per 100.
SPRENGERI, 2-inch pots, \$2.50 per 100; 2½-inch pots, \$3.00 per 100.
DRACENA GODSEFFIANA, 3-inch pots, \$1.50 per dozen.
MARANTA MASSANGIANA, 2½-inch pots, \$3.00 per 100.

PALMS, FERNS, ETC.

ARAUCARIA EXCELSA.

Size Pots.	Height.	Whorls.	Each.
5-inch	12 inches	3 to 4	\$.75
5-inch	15 "	3 to 4	1.01
7-inch	22 to 24 "	4 to 5	1.50

ARAUCARIA EXCELSA GLAUCA.

Size Pots.	Height.	Whorls.	Each.
5-inch	12 inches	3 to 4	\$1.01
5-inch	14 "	3 to 4	1.25
7-inch	26 "	5 to 6	3.00

ARAUCARIA ROBUSTA COMPACTA.

Size Pots.	Height.	Whorls.	Each.
5-inch	10 inches	2 to 3	\$1.25
6-inch	14 "	3	1.75
7-inch	22 "	4	3.00

PANDANUS UTILIS.

Size Pots.	Height.	Each.	Doz.	Per 100
6-inch	20 to 22 inches	\$.75	\$ 8.00	
7-inch	24 to 26 "	1.00	12.00	

FICUS ELASTICA—RUBBER TREE.

PERFECT, SHAPELY PLANTS.

Size Pots.	Height.	Each.	Doz.	Per 100
5-inch	12 to 14 inches	\$.50	\$5.00	\$40.00
5-inch	15 to 18 "	.60	6.00	

KENTIA BELMOREANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	6	18 to 21 inches	\$.75	\$ 7.50
5-inch	5 to 6	22 to 24 "	1.00	12.00
6-inch	6 to 7	28 to 30 "	1.50	18.00
7-inch	6 to 7	30 to 32 "	2.00	24.00
8-inch	6 to 7	36	2.50	
8-inch	6 to 7	38 to 41 "	3.50	

LATANIA BORBONICA.

Size Pots.	4 to 5 character leaves	Height.	Each.	Doz.	Per 100
5-inch		20 inches	\$.40	\$ 4.00	\$35.00
6-inch	7	20 to 24 inches	.75	9.00	
7-inch	8 to 9	25 to 26 "	1.25	15.00	
8-inch	8	40 to 48 inches	3.00		

BOSTON FERNS.

Large stock of all sizes pot-grown plants. Write for prices.

KENTIA FORSTERIANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	5 to 6	26 to 28 inches	\$.75	\$ 9.00
5-inch	5 to 6	26 to 28 "	1.00	12.00
5-inch	5 to 6	30 "	1.25	15.00
6-inch	5 to 6	31 to 36 "	1.50	18.00
7-inch	6	36 to 38 "	2.00	24.00
7-inch	6	41 to 42 "	2.50	
8-inch	6	44 to 46 "	3.50	
8-inch	6	48 to 50 "	4.00	

CYCAS REVOLUTA.

We can supply fine plants, well rooted, with fine, perfect crowns, in sizes from 3 to 10 lb. stems, at an average price of 4c per lb.

PHOENIX CANARIENSIS

Size Pots.	Height.	Each.
7-inch	24 to 26 inches, stocky plants	\$1.50
9-inch	4 feet, stocky plants	3.00

ASPARAGUS PLUMOSUS NANUS.

We have a very large stock of all sizes.

2½-inch pots	per doz.,	\$.75 per 100,	\$5.00
3-inch pots	"	1.00	8.00
4-inch pots	"	2.00	15.00
5-inch pots, very fine,	"	4.00	30.00
6-inch pots,	"	6.00	50.00

ASPARAGUS SPRENGERI.

2½-inch pots.	per 100,	\$3.50 per 1000,	\$31.00
4-inch pots,	per doz.,	\$1.50	12.00
5-inch pots,	"	2.50	
6-inch pots,	"	5.00	

CELESTIAL PEPPER, OR CHRISTMAS CHERRY.

One of the best plants for Thanksgiving and Christmas sales. We have a large stock of well grown plants.

3-inch pots, strong,	per doz.,	\$.75	per 100, \$ 6.00
4-inch pots,	"	1.25	10.00

FIELD-GROWN CARNATIONS.

	Per 100
Wm. Scott	\$ 5.00
Norway	6.00
G. H. Crane	6.00
Estelle	8.00
Mrs. H. N. Higginbotham	12.00

VAUGHAN'S SEED STORE,

84-86 RANDOLPH ST., CHICAGO.

14 BARCLAY STREET, NEW YORK.

GREENHOUSES, WESTERN SPRINGS ILL.

Chrysanthemum...

TIMOTHY EATON, well-rooted cuttings, \$2.25 per 100. Sample 21 for 50 cts., express prepaid. Plants, \$3.00 per 100 express not prepaid. All healthy and strong.

Geraniums...

1,500 S. A. Nutt, 500 La Favorite, from 2½ and 2-inch pots, mostly 2½-inch, large per cent in bloom or bud, ready shift, \$1.50 per 100; \$14.00 per 1000. Unrooted cuttings of S. A. Nutt, 70 cents per 100; \$6.00 per 1000. Cash with order.

DES MOINES PLANT CO.,

38th St., Des Moines, Iowa.

PAEONIAS FOR FALL...

10 distinct, best kinds, \$10.00 per 100. Poets Narcissus, dbl. & sgl., home grown, \$5 a 1000. Clematis, large flowering, \$2.50 per doz.; \$16 per 100. SMILAX A few hundred fine heavy plants, one year, \$3 per 100.

F. A. BALLER, Bloomington, Ill.

Please mention the American Florist when writing.

Latania Borbonica

For growing on, fine plants, 3-inch pots, \$6.00 a hundred.

J. B. HEISS, The Exotic Nurseries, DAYTON, OHIO.

We have the largest stock of ARAUCARIA EXCELSA

in the country. May importation, raised from top cuttings only.

5 inch pots, 3 tiers, 10 inches and above	\$.50
5½-inch pots, 12 to 14 inches	.60 to .75
6-inch pots, 13 to 18 inches	.75 to 1.00
Specimen	1.25
KENTIA FORSTERIANA and BELMOREANA, 5½ to 6-in. pots, 25 to 30 inches high	.75
FICUS ELASTICA, 5½ to 6-in., 18 to 24 inches high from \$4.00 to \$5.00 per doz.	
BOSTON FERNS, 6 inch pots	.40

Cash with order please. To save express mention if pots to be taken off.

GODFREY ASCHMANN,

WHOLESALE GROWER AND IMPORTER OF POT PLANTS,

1012 Ontario Street, PHILADELPHIA, PA.

Smilax!

Strong Plants, 2½-inch pots ready for benching, \$1.00 per 100; \$10.00 per 1000.

JOHN BROD, NILES CENTER, ILL.

Carnations, Geraniums Cannas, Etc.

Prices quoted upon application. The Cottage Ferns, Queens, L. I.

Begonia Rex

Thirty named varieties; strong plants, from 2½-inch pots, \$5.00 per 100.

Carex Japonica Var.

One of the most useful decorative grasses. Makes a pretty plant for the table or conservatory. Now is the time to get your supply for winter. Fine 2½-inch pot plants, \$2.50 per 100.

Cyperus Alternifolius

Bushy, outdoor grown plants in 3-inch pots, extra strong, ready for a shift, \$4.00 per 100.

Violets—Princess of Wales.

Large, field-grown clumps, free from disease. Plant now to get best results, \$5.00 per 100.

Nathan Smith & Son, ADRIAN, MICH.

Orders booked now—delivery in September—for my Nephrolepis Fern

"ANNA FOSTER"

Small plants, \$25.00 per 100; larger plants prices on application. BOSTON FERN now ready at \$25 and \$50 per 100. L. H. FOSTER, 45 King St., Dorchester, Mass., Please mention the American Florist when writing.

Buffalo.

TRADE STILL CONFINED TO FUNERAL WORK.—ROSES MOSTLY POOR.—DOINGS OF THOSE IN THE TRADE.

Palmer is progressing finely with his new store, and, with the management of a Thorley man, wonders should be worked. But I think that a branch store should be more than five blocks from the main office, although it certainly is a good location.

Good weather prevails but trade is very quiet, funeral work about all there is at present. Stock is up to the average, carnations good but roses poor, excepting a few Kaisersims. Gladioli are very plentiful and fine.

Everyone is pleased at the re-election of John Burton as president of the S. A. F., and the selection of Milwaukee for the next convention.

South Park never had as many visitors as this year, and everyone appreciates the work of Prof. Cowell.

W. H. Grever, of Bullock & Company, is now nicely located on Lemon street.

J. B. Wiese has returned from abroad, leaving W. F. Kasting to come later.

S. B. Smiley, at Lancaster, is getting things into good shape since the fire.

C. G. Gunther, of Hamburg, is hard at work getting in his stock.

J. H. Rebstock is still at the Beach.
Bison.

MONTREAL, CAN.—Montreal will send a dozen representatives to the meeting of the Canadian Horticultural Association at Hamilton, next week. William Wilshire will go to Toronto to act as judge of the horticultural exhibits at the fair.

CARNATIONS.

1000 JOOST.....	} \$40 00 per 1000.
1000 MCGOWAN.....	
1000 SCOTT.....	
1000 CROCKER.....	
1000 LADY EMMA.....	

300 F. HILL and 200 ROOSEVELT, at 5c. each.
Fine, large, healthy plants. Cash.

CHARLES LENKER, Freeport, L. I., N. Y.

ASPARAGUS PLUMOSUS

3-inch, ready for a shift, \$8 per 100.

CARNATION PLANTS.

Fine large plants—G. Lord, E. Crocker, Flora Hill, White Cloud, Queen Louise, at \$4.50 per 100. WRITE US.

VAN WERT GREENHOUSES, Van Wert, O.

Adiantum Cuneatum.

Per 100
Clumps for 5-inch pots.....\$6.00
Umbrella Plants, strong, 4-inch. 4.00
Coleus Thyrsoides, for winter-blooming, 2-inch, \$4.00; 3-inch 6.00
Twenty-five at hundred rate.

J. A. WIBE, Box 125, Downers Grove, Ill.

Mushroom Spawn Fresh Importation

FERTILE. PRODUCTIVE.

English in bricks, per 100 lbs., \$6.50 f. o. b. New York, \$7.00 f. o. b. Chicago. Write for prices on quantity.

Vaughan's Seed Store, CHICAGO. NEW YORK.

BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.



Cycas Revoluta

From 25c to \$3.00 each. We have an immense stock to offer and can assure good values.

The GEO. WITTBOLD CO.

1657 Buckingham Pl., Chicago.

100,000 Field-Grown CARNATION PLANTS

Nearly all the choice new and old varieties. Send your list. Send for prices.

J. L. DILLON, - - - BLOOMSBURG, PA.

Cressbrook Carnations

From field, nice strong plants, \$10.00 per hundred; \$75.00 per thousand.

Order early as I have only a few thousand left.

C. WARBURTON, FALL RIVER, MASS.

Look at This.

The largest and finest standards of **Hydrangea Paniculata Grandiflora** in the country at reasonable rates. See dead standards of Forsythias and Weeping Lilacs, all in true tree form and carefully staked. Immense blocks of Spiraea Anthony Waterer, S. trilobata, Viburnum toment sum and all the fine shrubs on the market.

HOOPES BRO. & THOMAS, Maple Ave. Nurseries, WEST CHESTER, PA.

HERRON....

Carnation Grower,

OLEAN, N. Y.

WANTED, Box Edging

in quantity. Larger sizes, 6 inches and over preferred.

OGLESBY PAU, VILLA NOVA, PA.

B. W. DIRKEN, Oudenbosch, Holland.

ORNAMENTAL AND FOREST TREES A SPECIALTY.

Conifers, Evergreens, Hollies, Etc. Prices on Application.

Extra Fine Field-Grown

CARNATION PLANTS.

1500 Wm. Scott\$5.00 per 100
2000 Ethel Crocker 5.00 per 100
300 Gen. Maceo 6.00 per 100
300 Norway..... 6.00 per 100
1000 Mrs. Joost..... 6.00 per 100

LEO. NIESSEN,

N. W. Corner 13th and Filbert Streets, PHILADELPHIA, PA.

15,000 Field-Grown 15,000

CARNATIONS

Extra fine plants of Lawson, Roosevelt, Marquis, Crane, White Cloud, Cervera, Joost, and Maceo. Write for price list.

GEO. E. BUXTON, Nashua, N. H.

FIELD-GROWN CARNATIONS

200 Marquis, 800 Lawson, 700 Norway, \$6 per 100. 3000 Flora Hill, 1000 Crane, 800 Triumph, 800 Daybreak, \$5.00 per 100; \$15.00 per 1000. Cash.

W. SABRANSKY, KENTON, OHIO.

LAUREL HILL Nurseries, F. BRUNTON Manager.

Importers and growers of Choice Hardy Perennials. Native Trees, Shrubs, Specimen Evergreens. We grow large quantities of Iris, Paeonias, Trifomias, Phlox, Delphinium; stock is perfectly hardy, true to name. Send for Special Catalogue of New Hardy Alpine Iris, now in the press. STOCKBRIDGE, MASS., U. S. A.

CARNATIONS

FIELD-GROWN PLANTS.

	Per doz.	Per 100
CRESSBROOK, early 1st.....	\$3.00	\$15.00
propagated, 2nd.....	2.50	12.00
FAIR MAID.....	2.50	12.00
F. ORIANA.....	1.50	8.00
NORWAY, extra.....	1.50	10.00
GENEVIEVE LORD.....	1.50	8.00
PROSPERITY.....	1.50	10.00
EGYPT.....	1.00	7.00
MERMAID.....	1.00	6.00
LAWSON.....	1.50	8.00

The above are all in good shape, ready for immediate shipment. 25 plants of one variety at 100 rate.

CHRYSANTHEMUMS.

We still have some nice thrifty young stock which we offer at \$2.50 per 100 our selection. For list see issue of Aug. 23d.

H. WEBER & SONS, Oakland, Md.

Field-Grown Carnation Plants

Strong and Perfectly Healthy.

	Per 100
Lawson, fine plants.....	\$8.00
Marquis.....	6.00
Norway.....	6.00
Genevieve Lord.....	6.00
White Cloud.....	5.00
Joost.....	5.00
Estelle, 2nd size.....	5.00

S. J. REUTER, WESTERLY, R. I.

Carnations

Fine field-grown stock, consisting of the following varieties: White Cloud, Joost, Genevieve Lord, Queen Louise, Flora Hill, Marquis, Crane. No better stock offered. Price, \$7.00 per 100.

S. S. SKIDELSKY,

708 NORTH 16TH ST., PHILADELPHIA.

FIELD-GROWN

Carnation Plants

of the following varieties:

ETHEL CROCKER, G. H. CRANE,
FLORA HILL, FRANCES JOOST.

Send for sample and prices; ready for planting

JOHN WOLF, Savannah, Ga.

6,000 VERY FINE FIELD-GROWN

Carnations

that we guarantee will please anyone.
Write for list and prices.

FURROW BROS., Guthrie, Oklahoma.

Carnations...

Bradt, Norway, Morning Glory, Flora Hill, White Cloud, Crane, Marquis, G. Lord, Mme. Chapman, Glacier and Daybreak. Write for sizes and prices.

VIOLETS Imperial, M. Louise, Swanley White from 3-in., \$3.75 per 100; \$35 per 1000. L. Campbell, \$2.50 per 100, \$20 per 1000.

CRABB & HUNTER, GRAND RAPIDS, MICH.

Field-Grown Carnations.

500 PINGREE.....	\$4.00 per 100
500 ETHEL CROCKER.....	4.00 per 100
400 WHITE CLOUD.....	4.00 per 100
500 MCGOWAN.....	4.00 per 100
500 JOOST.....	4.00 per 100

These are fine plants. Cash with orders please.

C. L. VAN METER, Monticello, Iowa.

FIELD-GROWN

Carnation PLANTS.

	Per 100	Per 1000
PROSPERITY.....	\$5.00	\$45.00
MARQUIS.....	5.00	45.00
EVANSTON.....	5.00	45.00
MRS. JOOST.....	5.00	45.00

Strong, Healthy Plants.

GEO. REINBERG,
51 Wabash Ave., CHICAGO.

Miss Louise Faber

The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet to 6 inches to 4 feet. Flowers are of a beautiful pink, similar to a well colored Bridesmaid rose and average 2½ inches. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for Jan. delivery.

FICK & FABER, SAN MATEO, CAL.

FIELD-GROWN CARNATIONS

Crane (red), Joost (pink), Mary Wood (white).

Smilax, Asparagus Plumosus, Sprengeri and Boston Ferns.

Write GEO. A. KUHL, PEKIN, ILL.

CARNATIONS

Marquis, Gomez, fine field-grown, \$5.

ROSES Brides and Maids, 3½-inch, \$4.10.

*Mums in variety, \$2 per 100.

L. E. MARQUISEE, Syracuse, N. Y.

FIELD GROWN CARNATION PLANTS.

Maceo, Gomez, Flora Hill, Joost, Progress, G. Lord and Marquis, \$5.00 per 100; \$40.00 per 1000. Samples by mail 10 cents.

The Albert H. Brown Co., Westboro, Mass.

New Scarlet "ORIOLE" Carnation...

Strong and healthy field plants, \$12.00 per hundred; \$100 per thousand.

JOHN B. GOETZ, Saginaw, W. S., Mich.

All The Best CARNATIONS

Orders booked now for fall delivery.

SEND FOR PRICES.

Rotted cuttings and young plants all out.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

Please mention the American Florist when writing.

Field-Grown

CARNATIONS

Fine, Strong, Healthy Plants.

	Per 100	Per 1000
PROSPERITY.....	\$4.00	\$35.00
MRS. LAWSON.....	7.00	60.00
MRS. BRADT.....	7.00	60.00
MARQUIS.....	4.00	35.00
NORWAY.....	4.00	35.00
GENEVIEVE LORD.....	4.00	35.00
CRANE.....	5.00	45.00
MORNING GLORY.....	5.00	45.00
MRS. L. INE.....	5.00	45.00
JOOST.....	4.00	35.00
AMERICA.....	4.00	35.00
TRIUMPH.....	4.00	35.00
HOOSIER MAID.....	4.00	35.00

PETER REINBERG,
51 Wabash Ave., Chicago.

CARNATIONS

FROM HIGH GROUND.

Morning Glory, Hill, Crane, America, Marquis, fine stock.

W. H. WATSON, Lapeer, Mich.

Chicago Carnation Co.
Joliet, Illinois.

CARNATIONS

Strong, clean and healthy plants.

Not being able to house all of our new seedling, RUBY KING, a brilliant cerise, we have some to spare at \$6.00 per 100. We also have some fine White Cloud, America, G. Lord and Mary Wood at \$5.00 per 100; \$40.00 per 1000.

LAMPRECHT BROS., Ashland, Ohio.

Please mention the American Florist when writing.

SURPLUS CARNATION PLANTS.

Very Nice and Healthy Plants at \$4.00 per 100,

100 Marquis.	200 McGowan.
100 Morioz Glory.	200 White Cloud.
100 Scott.	200 Flora Hill.
100 Daybreak.	50 Crane.
75 Crocker.	

SUNNYSIDE GREENHOUSES, Owosso, Mich.

American Florists
Always do business,
Week days and every day
Sundays and holidays,
All over the country,
At home and abroad.

Pittsburg.

TRADE DULL BUT WEATHER VERY FAVORABLE TO STOCK.—CONVENTIONITES WERE PLEASSED.—A VARIETY OF PERSONAL AND TRADE DOINGS.

Business continues to drag but carnations have been much better than usual, owing to sufficient moisture and cool weather. Gladioli were very much in demand on several occasions this summer. Asters are now in their glory. White and pink are the finest, purple scarce. Roses continue to improve.

E. C. Reineman speaks glowingly of the pleasures and the picturesqueness of his trip to and from the convention, of the excellence of the arrangements for the entertainment of visitors, and of the interest displayed in the discussions and readings during the sessions.

W. J. Fitzsimmons, of Randolph & McClements, will spend two weeks on Lake Erie.

Phil. Langhans has returned from Chatauqua and Danville after a month's absence.

Miss Janey M. Coard and A. W. Smith, Jr., were united in marriage on Thursday, July 21.

John Boldingier, of U'lam & Co., is on deck again after two weeks at the sea shore.

Frank Schoen, of A. M. Murdoch's, has recovered from his long seige of fever.

E. L. M.

GERANIUM BARGAIN

2-inch pot plants at \$1.50 per 100.

JEAN VIAUD and M. de CASTELLANE at \$2.00 per 100 and less than 25 of a variety will be at the rate of \$2.50 per 100.

Twenty varieties all correctly labeled, they are not carried over stock but good big cuttings potted up for fall sales. They should be reported now, order at once.

S. A. Nutt, Buchner, La Favorite, Bonnot, Castris, Perkins, Jaulin, Poitevine, Castellane, Viaud, Acteon and Heteranthe in quantity.

Rooted cuttings in the same assortment ready now at the same price.

SMILAX

A few thousand left at \$1.25 per 100.

PANSIES

You all know the quality of the strain that I seed out. It is not a cheap one, but a high-class strain—the only kind that it pays you to buy. The plants are good little seedlings at 70c per 100 or \$1.00 per 100.

BONE MEAL

The best for Florist's use at \$3.50 per 20 lb. bag or \$32.50 per ton.

ALBERT M. HERR, Lancaster, Pa.

Orchids!



Arrived in fine condition: CATTLEYA TRIANE. The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

Lager & Hurrell, SUMMIT, N. J. Orchid Growers and Importers.

HAIL!

FOR INSURANCE AGAINST DAMAGE BY HAIL, Address

John G. Esler, Sec'y F. H. A. SADDLE RIVER, N. J.

Pansies Worth Raising.

Seed, 3/4 oz. \$1.00
Plants, per 1000 4.00

FERNS...

FOR JARDINIERS.

Assorted from flats, \$1.50 per 100 clumps.
Assorted from pots, \$3.00 per 100 plants.

BOSTON FERNS

From \$15.00 to \$50.00 per 100.

RUBBER PLANTS, \$30.00 per 100.

ASPARAGUS PLUMOSUS

\$5.00 to \$10.00 per 100.

ALL A NO. 1 STOCK.

Sample lots for \$2.00 worth at above rates.

All plants f. o. b. express here.

CASH WITH ORDER.

CHR. SOLTAU,

199 GRANT AVENUE, JERSEY CITY, N. J.

A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

KENTIA Belmoreana and Forsteriana, extra clean and well grown plants, 2 1/2, 3, 4 and 5-in., \$5, \$7.50, \$10, \$15, \$20, \$25, \$30 to \$125 per 100.

REX BEGONIA, 2 and 3-inch \$4 and \$6 per 100.
BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.

FERN, Cordata Compacta, 2 and 3-inch, \$4 and \$10 per 100.

ASPARAGUS Plumosus, 2 inch \$5; 3-inch, \$8. Sprenger, 2 inch \$3; 3 inch, \$5, per 100.

DRACAENA INDIVISA, 4, 5-10.. \$10, \$25 per 100.

ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100.

SMILAX, Vinca Var. 2 inch, \$2.00 per 100.

CAMPBELL VIOLETS, 3-inch, \$4.00 per 100.

FIELD-GROWN CARNATIONS, Scott, McGowan, Portia, P. achilow, Ethel Crocker, Genevieve Lord, \$4.00 per 100; Prosperity, \$5.00 per 100.

Cash or C. O. D.

CEO. M. EMMANS, NEWTON, N. J.

Primroses

CHINESE, single mixed, fine..... Per 100 \$2.00

FORBESI, "Bib"..... 2.00

BEGONICA Grandiflora, ready Aug. 10 2.00

Asparagus SPRENGERI, 2 in. pot.. 3.00

CINERARIA, ready Oct. 1st..... 2.00

PANSY PLANTS, read Oct. 1st, \$3.00 per 100060

CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

SPECIAL CLEARING SALE

To Move Quick, we will offer the following stock, in this class, concluded and true to name. If you have any use for the following, don't miss this opportunity.

15,000 Ceraniums. All from 2 1/2 inch pots—Jean Viaud \$3.00 per 100; Dutcheas of Orleans (the variegated wonder), Beante Poitevine, E. G. Hill, Alp. Ricard, Mme. Jaulin, Mme. Brant, Athlete, Th. S. Meehan, Kelway, Morton, \$1.75 per 100; S. A. Nutt and Frances Perkins, the leading holders, \$1.50 per 100; \$ 5.00 per 100.

25,000 Smilax, extra strong plants from 2 1/2 inch pots (10 c), \$1.00 per 100; \$8.00 per 100.

10,000 Asp. Sprenger, strong plants, from 2 1/2-inch pots, \$1.00 per 100; 2 1/2-inch, (fine), \$2.50 per 100. Cash.

The W. T. Buckley Plant Co., Springfield, Ill.

Field-Grown ASPARAGUS SPRENGERI

Nice clumps at \$3.00 and \$5.00 per 100.

C. WINTERICH, DEFIANCE, OHIO.

Please mention The American Florist when writing.

CALIFORNIA

SEEDS and PLANTS

Burbank's Shasta Daisy Seed, 25c per 100; \$2 per 1000; \$18 per oz. Asparagus Sprengeri Seed, \$1.60 per 1000; 5,000 for \$6; 10,000 for \$11. Pansy Giant Mixed, \$1 per ounce; \$10.00 per lb.

PLANTS.

Burbank's Shasta Daisy, 2-in., \$10 per 100; 3 1/2-in.:h, \$15 per 100. Calla Bulb, 1st size, \$4.00 per 100 Asparagus Plumosus Nanus, fine 2 1/2-in., \$3 per 100; \$25 per 1000. 3 1/2-inch, extra fine, \$5 per 100; \$40 per 1000. 250 plants at 1000 rate. Express prepaid.

CALIFORNIA CARNATION CO. LOOMIS, CAL.

CYCLAMEN

Persicum Splendens Giganteum.

Finest strain in the world, in four true colors, well-grown plants, from 2 1/2-in. pots \$1.00 per 100; \$35.00 per 1000. Extra selected, \$2.00 per 100; \$40.00 per 1000. From 3-inch pots, \$7.00 per 100; \$65.00 per 1000.

PAUL MADER, East Stroudsburg, Pa.

SPECIALTIES

ROSES, from 3-inch pots. In Best CARNATIONS, for all delivery, Varieties CHRYSANTHEMUMS, SMILAX, VIOLETS.

Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.

BEGONIA GLOIRE DE LORRAINE,

Begonia Light Pink Lorraine,

For July and Later Delivery, \$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near Chestnut Hill, Pa.



Invalid Appliance Co., MANUFACTURERS OF COLUMBIA PLANT TUBS (PATENTED) "The kind that never fall apart." If your seedlings don't handle them, order of us direct. FACTORY AND OFFICE: 150-160 WEDDER ST., CHICAGO. TELEPHONE NORTH 953.

SOMETHING ENTIRELY NEW.

A Florists' Plate Book.

150 Plates and nearly 300 varieties for \$3.50 or three for \$10.00.

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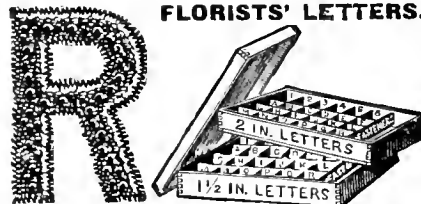
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Carnation Support.**



Flushing, Long Island,
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Dear Sir - I have used
your Wire Carnation Sup-
port the last two years. In
all about 12,000. They fill
the bill in every particular.
Nothing could be more
satisfactory and would
give me a great deal of
pleasure if I can bespeak a
good word for you to the
trade and you are at liberty
to refer to me at any
time.

Very truly,
A. L. THORNE.
La Fayette, Ind.,
July 8th, 1902.
MR. THERON N. PARKER,
Harrison, N. J.

Dear Sir - After using
your Model Carnation Sup-
port in two of our houses
the past winter, we have
come to the conclusion that
it is perfectly adapted to
supporting carnations, and
shall use them on all our
plants the coming season.
We were much pleased
with the simplicity,
strength and neat appear-
ance of the support.

Yours truly,
F. DORNER & SONS Co.

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San Francisco.

TRADE SHOWS STIMULUS OF PYTHIANS PRESENCE.—GOOD STOCK MOVING WELL.—VETERAN GROWER TAKES UP NEW SPECIALTIES.—A DEATH.—VARIOUS NOTES.

The city has been given into the hands of the Knights of Pythias and business is ahead of last year for this time. Good stock in roses and carnations is very scarce and quickly disposed of but asters and amaryllises are moving rather slowly, owing to immense quantities coming in. Lilies (auratum, album and rubrum) are good and sell accordingly. It is certainly surprising that some large growers of roses do not go in a little heavier for summer stock, as there has always been a ready sale for good flowers in August and September.

E. Leedham, of Santa Cruz, has been on a visit to San Francisco in connection with an exhibit of dahlias, which consisted of some seventy-five varieties and some very fine seedlings. Mr. Leedham went into the flower business only three years ago, which is a little unusual for a man 73 years of age. He is going in very heavily on daffodils and has planted some 400,000 bulbs.

E. E. Uslar who has been connected for a period of fifteen years with the California Nursery Company, in Niles, is dead, of heart failure. Mr. Uslar was a native of Rochester, N. Y., 42 years of age and one of the best known persons in the business, he having been a director of that large concern.

E. Ludeman, Jr., has embarked in matrimony and settled down in Milbrae, where he has taken charge of the large place belonging to the Pacific Nurseries, of which his father is the head.

H. H. Lilienthal has founded the "Pacific Florist," a magazine on orchards and gardens. GOLDEN GATE.

MANCHESTER, MASS.—The North Shore Horticultural Society held its annual summer show at the town hall on August 20. As usual, there were large displays of choice garden flowers from the many summer residents of the town, prominent among the exhibitors being Mrs. H. L. Higginson, who received a silver medal, and T. Jefferson Coolidge, who was awarded certificates. The Blue Hill Nurseries made a display of over 100 varieties of hardy herbaceous flowers.

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" No. 2.	3x6x18	2.00	18.00
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" No. 5.	4x8x22	3.00	28.00
" No. 6.	4x8x28	3.75	35.00

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On account of the meeting of the Brotherhood of St. Andrew, the Wabash road will sell excursion tickets from Chicago to Boston, October 7 to 11, at one fare (\$19) for the round trip. By deposit and payment of 50c the limit may be extended to Nov. 12. Write for maps and time tables. F. A. Palmer, A. G. P. A., 97 Adams St., Chicago, Ill.



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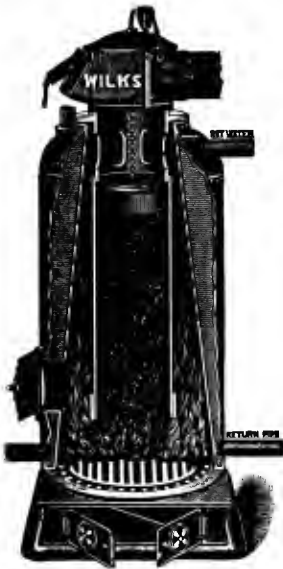
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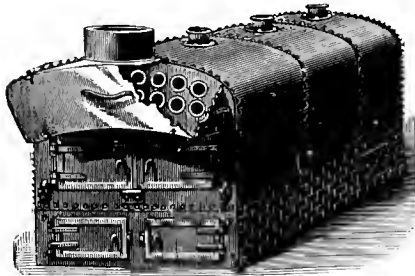
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We are headquarters for pipe. We offer you:

100,000 FEET of 2 to 4 inch wrought iron, lap welded casing. We can furnish this material in three ways: Either with sleeve or jacket couplings, screwed ends and threaded couplings or with expanded cast iron flanges with bolts and nuts.

1,000,000 FEET of standard black wrought iron pipe, size $\frac{3}{8}$ to 12-inch. It is second-hand but has new threads and couplings and is in first-class condition.

1,000 TONS of galvanized wire 9, 10, 11, 12, 13, 14 and 15 gauge.

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VALVES and fittings of every kind.

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Lowell, Mass.

TRADE GOOD FOR THE SEASON.—MANY ASTERS USED FOR FUNERAL WORK.—STORM INJURES OUTDOOR STOCK.—NOTES.

Considering the time of year, business is fairly good. The supply of asters has shortened up, and so have supplies of other outdoor material. One of the most severe thunder and hail storms experienced in Lowell in a number of years began early on the morning of August 23 and played havoc with outdoor stock. It knocked asters and sweet peas flat to the ground and perforated cannas, ricinis and other tall growing stock. Both Bride and Bridesmaid roses are steadily improving and are forging to the front again. Funeral work has been quite brisk the past week and at the obsequies for a prominent physician over twenty solid wreaths of asters were counted.

Gilbert Wentworth, formerly with M. A. Patten, but more recently of Bucksport, Maine, has gone to work for A. Roper.

W. A. Patten and wife have returned, after spending a very enjoyable vacation at their summer cottage on Plum Island.

After an absence of ten years, James Mackin, of Greenwich, was in town last week renewing his old acquaintances.

Otto Bourdy is cutting some very fine straw colored asters, which are something of a novelty.

Harvey Green and family have returned from a sojourn down in Maine.

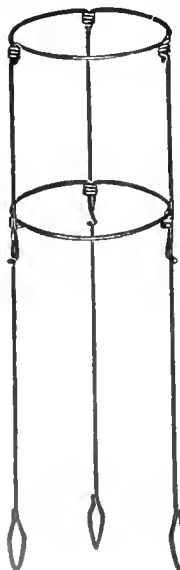
A. M.

Washington.

PARTY WELL PLEASED WITH CONVENTION TRIP.—MOUNTAIN CLIMBERS ARE STILL ABSENT.

The Washington delegation to the Asheville convention were much pleased with the trip to the land of the sky. Everybody was pleased with the trolley ride up Sunset Mountain, from which we had a fine view of the city and the surrounding mountains, also with the carriage ride to Biltmore. The drives and landscape are grand but most of us were disappointed with the garden and bedding. Most of the party came home Saturday morning by the special train. Peter Bisset and John Clark will spend another week tramping over the mountains botanizing. George C. Shaffer and Otto Baur intended going to the summit of Mount Mitchell and then return home.

P. G.



MODEL EXTENSION CARNATION SUPPORT

Made with two or three circles. Endorsed by all the Leading Carnation growers as the best support on the market.

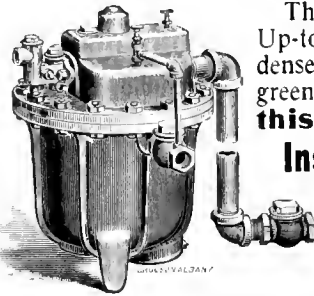
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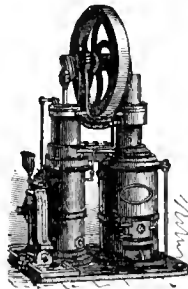
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Insures an Even Temperature.

Send for Red Catalogue.

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ALBANY, N. Y., U. S. A.



WATER.

If you want water only when the wind blows a windmill will do your work and cost less money than our Rider and Ericsson Hot Air Pumps, but if you want water every day while your flowers are growing and do not want your pump blown down when the wind blows too hard, no pump in the world can equal ours. We have sold about 20,000 of them during the past twenty-five years, which is proof that we are not making wild statements.

Our Catalogue "A 3" will tell you all about them. Write to nearest store.

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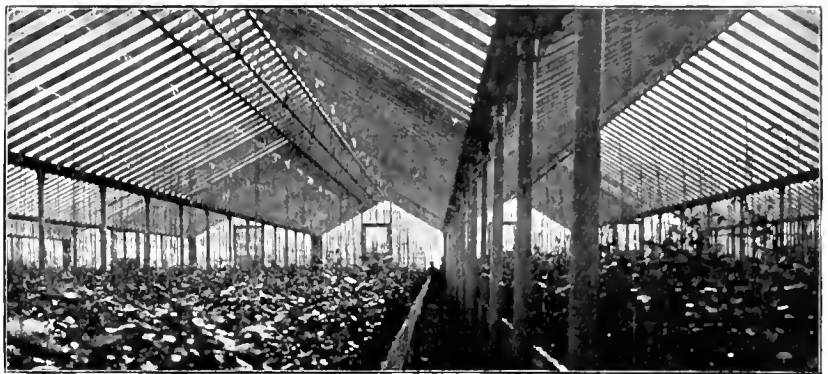
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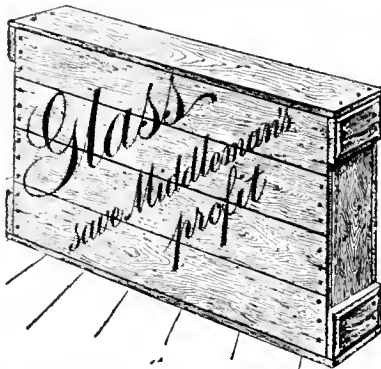
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USE IT NOW.

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Use our Patent
IRON BENCH
FITTINGS and
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Our descriptive circular contains valuable information for every florist. Send for it.

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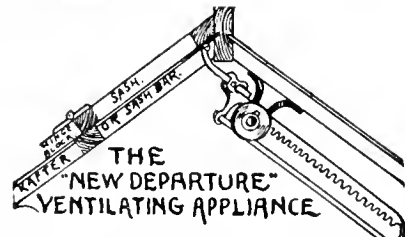
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EIGHTEENTH YEAR.

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**SOCIETY OF AMERICAN FLORISTS AND
ORNAMENTAL HORTICULTURISTS.**

OFFICERS—JOHN BURTON, Philadelphia, Pa., president; J. W. C. DEAKE, Asheville, N. C., vice-president; WM. J. STEWART, 79 Milk Street, Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer.

OFFICERS-ELECT—JOHN BURTON, president; C. C. POLLWORTH, vice-president; secretary and treasurer as before. Nineteenth annual meeting at Milwaukee, Wis., August, 1913.

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Convention Reflections.

That the conventions of the S. A. F. invariably prove to be pleasant events in many ways to those fortunate enough to participate in them is so well known that it needs no special argument to prove the case, and this state of affairs was patent to a large majority of those who attended the Asheville meeting.

In the first place, it was a new experience to many members to travel through the rugged and storm-scarred lands of North Carolina, to note the primitive farming and peculiar types among the population, the many modest dwellings so guiltless of paint that were seen along the line upon which we traveled, and finally to climb over that surrounding wall of mountains into the "land of the sky." Regarding the town itself in which our meeting was held, it is not necessary to go into details here beyond saying that it is a place of great possibilities from a landscape gardeners' standpoint, and one that will doubtless be greatly improved within a few years.

One feature that is lacking to northern eyes is good grass, but this is in all probability largely due to climatic conditions, and therefore is difficult to overcome, though a careful selection of grasses adapted to the climate may work wonders among the lawns of Asheville as the march of improvement goes on in the next few years.

The enterprising citizens of Asheville comprising the Board of Trade display a most commendable spirit in providing so fine a public hall for convention and exhibition purposes, and those taking part in the trade exhibition found a very able and courteous representative of the Board of Trade in the person of its secretary, Mr. Randolph, a gentleman to whom the amenities of life seemed to be a second nature.

At the first glance one may be impressed with the idea that it is a good plan to have the meetings of the society and the trade exhibits in the same room, thus keeping the members together, but in practice it is not quite as satisfactory as to have the two in separate apartments, for meetings are likely to be disturbed by discussions between merchant and customer, and on the other hand possible business deals may be ruthlessly broken off by the vigorous rapping of the presidential gavel. And it must be remembered that exhibitors do not pay for space on these occasions simply with a view to beautifying the meeting place and adding to the prestige of the society,

but rather to display their wares and extend their trade. This, dear brethren, is not the ill-natured growl of an unsatisfied soul, but is just a bald statement of fact, and facts we are told are stubborn things.

The trade exhibition as a whole proved to be a better one than was expected, for we can readily recall the many dismal predictions that were made after the meeting place for 1902 had been announced in Buffalo last year, and whether this change of heart on the part of the exhibiting contingent was due to southern eloquence, southern "moonshine," or to natural benevolence is not definitely known.

That the south would be represented in the exhibition was expected, and this expectation was carried out in some lines, the evergreens shown by a well known Georgia firm being one of the notable exhibits, while some bulbs of North Carolina production were of good size, very clean and well prepared for the market, and would appear to give much promise for that industry in the future.

Biltmore is famous in many respects, and one notable feature by which the Vanderbilt estate and Robt. Bottomley will be long remembered was found in the magnificent kentias that were provided for the decoration of the Auditorium. The big *K. Forsteriana* at the back of the stage was a noble specimen, carrying about eighteen perfect leaves, the total height of the plant being fully twenty feet, and the tub in which it had been growing for the past five years was only about twenty inches in diameter.

Two other remarkable kentias stood at the right and left sides of the stage, one of them labeled *K. Belmoreana* bearing a strong resemblance to the form that was known as *K. australis*, a form that seemed to be intermediate between *K. Forsteriana* and *K. Belmoreana*.

A handsome plant of one of the dark-stemmed varieties of *K. Belmoreana* was also shown by Mr. Bottomley under the name of *K. Belmoreana rupicola*, the latter plant being displayed in the vestibule of the hall, and in common with those noted above was in admirable health and condition.

The wisdom of going to Asheville and the results achieved were topics that were frequently discussed on the return trip, and a consensus of opinion, so far as may be briefly gathered by one observer, seems to be that it is "up to" our brethren of the south to show by a continued and growing interest in the affairs of the

society that there has been benefit derived from the visit of the society to that part of our great country.

This does not mean that the south may be the only portion of the trade that is benefited by the Asheville convention, for we of other sections have also learned something of the capabilities of that region, and of some of the difficulties of climate with which the southern florist must contend.

Speaking of sections brings to mind once more that knotty problem of "closer relations" on which so much oratory was expended during the recent meeting, a problem that evidently needs more consideration than has yet been given it, and at the same time demands dispassionate consideration.

It would seem a good plan to organize special sections of the S. A. F. for the promotion and consideration of special lines of work, the reports of these sections to be embodied in the annual report of the parent society. The power to grant medals and certificates might be vested in the parent society rather than in the sections, in order that such action may have some weight with similar associations in other parts of the world.

The sections could meet in committee form at such seasons as would be most favorable for the plant or plants each represents, and by such division of labor as would be secured by the section plan each specialist might devote his best energies to the consideration and promotion of his own specialty, while the annual volume or volumes of proceedings of the S. A. F. would become much more valuable and interesting.

Of course there will be objections offered to this, but let us hope that when the report of the committee shall be offered next August in Milwaukee it will be not an innocuous report, but rather a kind of condensed milk and beef tablet document that will provide the national society with a good supply of rich red blood of progress in the future.

W. H. TAPLIN.

Canadian Horticultural Association.

The fifth annual convention of the Canadian Horticultural Association was opened in the city hall, Hamilton, Ont., by Vice-president C. M. Webster, September 3 at 2:30 p. m. There were in the neighborhood of 100 in attendance at the opening session. In the absence of Mayor Hendrie, Alderman Burkholder addressed some words of welcome to the visitors, concluding by requesting them to take everything they liked but to leave the mountain.

President Bennett made suitable reply and then read his address, which was of a very hopeful nature. He referred to the very bright outlook for horticultural interests and he particularly emphasized the need of a Canadian paper. The reports of the secretary and treasurer followed and were very satisfactory. A general discussion ensued about establishing a trade paper and a committee was appointed to consider the matter and advise the association with regard to it. Exhibition judges were then appointed as follows: T. Manton, Toronto; E. Mepsted, Ottawa; A. C. Wilshire and James McKenna, Montreal.

At Wednesday evening's session C. A. Smith, of Montreal read a paper entitled "Winter Flowering Plants for Private Greenhouses." Edward Dale, of Brampton, discussed the "Latest Facts About Roses" and Mr. Webb, of Brampton, the "Latest Facts About Carnations."

There was no session of the convention on Thursday morning but the visitors were taken by the local entertainment committee, headed by T. Lawson and E. J. Townsend, down the H. G. & B. Railway, to E. D. Smith's nurseries at Winona. The party returned to the city by noon and were taken to the Mountain View Hotel for luncheon.

Roderick Cameron, of Niagara, read a paper on "The Advantages of Cold Storage of Plants to Gardeners and Florists, and John H. Dunlop read one on "Hybridizing," by George Hollis, of Bracondale. Andrew Alexander, of Hamilton, discussed "The Hardy Perennial Border" and Prof. Hutt, of Guelph, the relations of local horticultural societies and professional florists. Edward Gurney's paper on heating was read by E. J. Brewer.

The following officers were elected: President, Thomas Manton, Toronto; first vice-president, Geo. Robinson, Montreal; second vice-president, E. Mepsted, Ottawa; secretary, A. H. Ewing, Woodstock; treasurer, H. Simmers, Toronto; members executive committee



A. W. WILLIAMS.

(See New York letter, page 222.)

C. M. Webster, Roderick Cameron, A. C. Wilshire, Wm. Algie. The next meeting will be held at Toronto.

THE TRADE EXHIBITION.

There was an excellent trade exhibition, the following being represented:

John A. Bruce & Co., Hamilton, bulbs and sundries; A. T. De La Mare Printing and Publishing Co., books; Van Thof & Blokker, Haarlem, Holland, bulbs; F. A. Carpenter & Co., Hamilton, valves and fittings; Robt. Evans Seed Co., Hamilton, bulbs and sundries; Clucas & Boddington Co., New York, bulbs; John A. Campbell, Simcoe, gladiolus blooms; Dale Estate, Brampton, rose blooms; R. Jennings, Brampton, carnation blooms; Wm. Holmes, Hamilton, wire designs; D. J. Sinclair, Toronto, supplies; Walter Colt, Hamilton, plants; S. S. Bain, Montreal, plants; Webster Bros., Hamilton, plants and cut flowers; Grimsby Mfg. Co., Grimsby, fruit baskets; Foster Pottery Co., Hamilton, pots; J. Gammage & Sons, London, plants; Joseph Bennett, Montreal, adiantums; F. G. Foster & Son, Hamilton, plants; E. G. Brown, Hamil-

ton, plants; King Construction Co., Toronto, greenhouse building materials; R. G. Olmsted, Hamilton, iron vases; Walter Holt, Hamilton, plants; Hall & Robinson, Montreal, plants; L. H. Foster, Dorchester, Mass., Nephrolepis "Anna Foster;" F. R. Pierson Co., Tarrytown, N. Y., Nephrolepis Piersoni.

The judges awarded certificates of merit to F. R. Pierson Co., for Nephrolepis Piersoni, to the Foster Pottery Company and to the King Construction Company.

Among the other numerous exhibits some good varieties of cactus dahlias were noted from Queen Victoria Park, Niagara, Roderick Cameron, superintendent; coleuses from John Fox, Hamilton; specimen adiantums from John Stuart, Hamilton, Robt. Bailey, gardener, and tuberous begonias from Andrew Goodall, gardener at the Hamilton Asylum for the Insane, who also had on exhibition a number of fine hanging baskets which proved exceedingly effective suspended from the balconies.

The school children's display of asters was a very interesting feature of the exhibition. Some 2,000 packets of seed were distributed among the children in the spring and as a result between 200 and 300 vases of very good blooms were staged. Among the principal prize winners in the amateur classes were J. C. McCulloch, James Anderson, Mrs. Caffrey, James Ogilvie and A. O. Heir.

Latest Facts About Carnations.

BY T. A. WEBB, BRAMPTON, ONT.

[Read before the Canadian Horticultural Association at the Hamilton convention.]

I received a letter from Mr. Gammage a short time ago asking me to prepare a paper to be read at this convention on "Latest Facts About Carnations." I was and am still at a loss to know just what was desired; therefore I know of no other way out of the difficulty than by going over the old routine, commencing with the cutting bench.

Now that rust and spot are almost diseases of the past, anthracnose (stem rot) is troubling growers to an alarming extent and it is to so grow our plants that we will not be troubled with disease that I offer my help, trusting that others, by following in the path in which I have been successful as a grower, may be benefited.

The two most important things toward success are a proper cutting bench and a healthy stock to propagate from. When possible I would advise that the cutting bench be the north one in the house, preferably so because it can be kept cooler and more easily shaded than other benches. The bench must be enclosed and piped sufficiently to maintain a temperature of 60° to 65° in the sand. The sand should be about four inches deep in the bed, thoroughly wet and firmly packed down; a brick is a good thing to use to do the job right.

For shades I would use cheesecloth tacked on strips of lath, which you can make the desired size to reach from the front of the bench up to and under the glass at the back of the bench. Such shades are light and easily and quickly put up and taken down as necessity requires. To keep the cuttings healthy and to give them more air than is afforded through the ventilators I would advise taking out a pane of glass every fifteen or twenty feet over the cutting bench to give additional air when the temperature in the house is higher than 60°. To close these openings go to the



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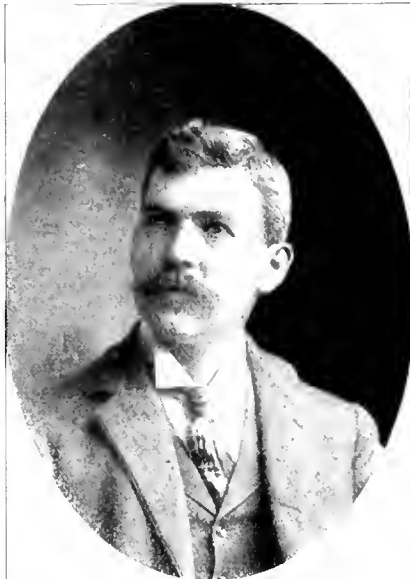
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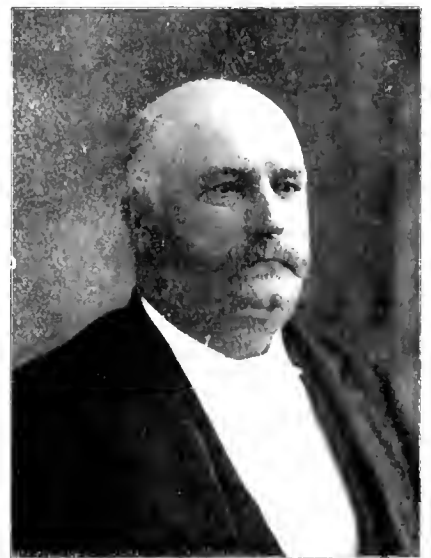
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JOHN CHAMBERS, OF TORONTO



ROBERT W. KING, OF TORONTO.



WM FENDLEY, OF BRAMPTON



JAS M KENNA OF MONTREAL

SOME LEADING MEN IN THE FLORICULTURAL AFFAIRS OF THE DOMINION OF CANADA

hardware store and have sheet iron cut to size that will easily slide up or down in a frame nailed to the bars.

I do not wish to be understood that by giving much air I advocate a current of air, for it would prove most disastrous. Plants as well as people need plenty of air to keep them in a healthy condition. To illustrate: A man requires 250 cubic feet of air every hour to furnish him with a healthy supply of oxygen. A plant requires a proportionate amount to supply it with its needed supply of carbonic gas. To shut off this needed supply of air means that a smaller percentage of cuttings will root and those that do root will be debilitated and are the more susceptible to disease.

Now that the cutting bench is ready, the shades made, and extra ventilation in, we are ready to select cuttings. Before proceeding any farther it is well to bear in mind that between the early and late blooming kinds there is some four months difference in time of flowering; therefore in order to have blooms from late blooming kinds for the holidays it will be necessary to commence taking cuttings the last week in October, and so on each month after, until you have a needed supply.

The early and constant bloomers may be taken in November, December, January and February with good results. During these four months cuttings root better for the reason that the plants are vigorous for not having been forced. In selecting cuttings I would advise taking them from flowering stems. On these stems there may be from one to four cuttings. The upper one will be too weak—leave it—the lower one may be too hard, and if so, leave it. The middle ones, usually strong, are just right.

With the thumb and index finger take them out sidewise. I would never use the knife on a cutting for the reason that a cutting taken out sidewise has not been wounded and is the better fortified

against the attack of disease by having left on it the tough leaves at its base, and further I claim such a cutting has one or more well defined joints already formed and will be from three to four weeks in advance of a pulled cutting.

When you have a quantity of cuttings gathered and the sand in the bench well wet through, insert in rows two inches apart, one inch apart in the row and three-quarters of an inch deep. Firm the sand on either side of the cuttings, after which water again to settle the sand. Spray each day after they are set, keeping close watch that they are not too wet, also that they do not get too dry along the side of the bench.

There is this difference between watering and spraying. We water to wet the ground; we spray to close the stomata (or mouths) of the leaves. This stops exhalation and the water that the roots absorb remains in the plant or cutting and a perfect equilibrium is maintained, there being no difference between absorption and evaporation. Leaves of a plant do not absorb water.

If the above plan of operating the cutting bench is strictly adhered to, it is my firm belief that out of every 100 cuttings taken over ninety-five per cent will strike root. Should the sand in the cutting bench become green, there is danger of the cuttings damping off by what is known as the fungus of the cutting bench. To keep the sand in a pure state I would advise the use of ammoniacal solution. The formula: One pound sulphate of copper and three quarts strong ammonia; dissolve the sulphate of copper in hot water, then add the ammonia; use one pint in a barrel of water. You can make a smaller amount using the same proportion of ingredients. Put in bottles and cork tightly, as the ammonia will evaporate. Fill your watering pot with water and add enough of the solution to make the water quite blue. Sprinkle the sand before putting in the cuttings, and

once each week after and you will have no trouble in your bench.

Once more, before leaving the propagating bench, I want to impress the importance of rooting the cuttings in as low a temperature as I have advised, for I believe that more injury is done carnation plants by rooting them in a high temperature than from any other cause. Joshua Ladley exhibited cuttings rooted at a little over 36° before the Chester County Carnation Society. It is better that, after being rooted, they be carried at a low temperature, for there is quite a winter's growth in all perennial plants at any temperature above that which produces death. Therefore I believe that by rooting them cool and growing them on cool until planting in the field, we will be free of disease to a marked extent.

When the cuttings are rooted and ready to be transplanted, have your soil ready, using only old, well-rotted manure, and whether you use pots, flats or a bench to plant them in, do not plant deeper than they stood in the sand; when planting in the field do not plant deeper than they were in the house; and when you bench them in the house in August or September do not plant deeper than they were in the field, for the reason as given by another that the epidermis of the stem above and below the ground is as different as the epidermis of the cheek and the mucus membrane of the mouth.

As we are battling against stem rot we must not deviate from this rule of planting, for should the plants be set deeper in the house than in the field, the soil old, the manure spongy, a dark spell of weather ensues and too much water at the base of the plants, stem rot will prevail to a greater or less extent.

When ready to plant in the field the ground should be so mellow that only the hands would be needed, but if too hard or lumpy use a garden trowel. By so doing, if the ground on top is dry, it is quickly brushed off and the hole for the plant made in fresh soil, with fresh soil to cover the roots, and if well done not a plant should die. On the other hand, if a foot dibber is used the hole is usually made too deep and when the dibber is removed dry earth falls into the hole, there is nothing in sight to cover the roots of the plant but dry earth and many plants die.

As it is now out of season for pinching back, field work, I will pass over this period of the season's work to the lifting of them for planting in. I would advise that in lifting you get all the roots for the reason that if you get but a part of them, nature will just so surely sacrifice a proportionate part of the leaves to maintain a balance; hence so often so many dead leaves on the plants in a short time. Then comes extra work in picking them off, and again, if the leaves are not perfectly dead, in stripping them down and off fresh wounds are made on the stems and disease has another chance to get in its work.

Early planting, as early as July and August, is being advocated by our leading growers. Some say that the plants become the better established and others give no reason, only claiming it is better. I advocate early planting for the reason that in plants that have made a good growth by August the joints are firm, the stems upright, and leaves leathery, are in what is called a ripened condition, filled with a compound already crystallized necessary to modify their leaves into flowers (flowers are but modified leaves) and if not lifted early a period of



A HOUSE OF MURPHY'S WHITE CARNATION PHOTOGRAPHED AUGUST 12.



WM. MURPHY'S FIELD OF CARNATIONS JUNE 17, 1902.

wet weather might set in and hold long enough to release this compound and a weak, watery growth be the result instead of bloom.

Young men, you who are working and educating your minds in this great work, it is in your interests that my thoughts have been directed in preparing this paper. Read books by acknowledged authorities, read the florists' papers of the day, attend the florists' conventions when possible, be progressive, learn much by observation, be industrious, be temperate, be men. Let your motto ever be "onward."

Wm. Murphy's Success.

The accompanying illustrations show that the season has not been unfavorable for the stock of some of the carnation growers in the vicinity of Cincinnati, certainly not for Wm. Murphy. One of the pictures shows his field shortly after planting and another shows the growth made under the influence of the copious rains which in other places were heavy enough to cause much injury to the plants. In the foreground in the pictures of the field is Murphy's White, the variety of which the owner thinks so highly as a commercial sort. It is a cross of Bridesmaid and Lizzie McGowan. It originated five years ago with C. C. Murphy, of Cincinnati, who last season sold the stock to its present owner. The interior view shows a house of this variety benched July 1 and photographed August 12.

CHRYSANTHEMUMS.

TAKING THE BUD.

Crown buds are now forming rapidly and for a little while the work of taking the buds must claim our closest attention. The buds of all early varieties should be taken as fast as they make their appearance. Early planted stock expected to produce fancy or exhibition blooms, and which have been treated accordingly, should at this time be four to four and one-half feet high. To have brought them to this height will mean that two and in some cases three buds have been removed. With this class of stock the bud now forming is the one that we are looking for. They will come along at different periods from August 15 to September 15, according to their season of blooming.

may be applied, but only in weak doses to start with, gradually increasing the strength as the plants are able to take it, being careful not to water with manure when the beds are in a dry state; better to water with clear water first. Do not neglect the tying but keep the plants up, so that there will be no chance of crooked stems.

C. W. JOHNSON.

Sweet Peas in England.

Since the bicentenary celebration, the sweet peas have come much more in favor and the national society seems likely to further stimulate the interest. Their second annual show, which was held a few weeks ago, was full of interest and fully illustrated the usefulness of these fragrant flowers for various kinds of decorative work. The bouquets and other artistic arrangements lasted well through the first day, although the second day, with the unusually hot weather, they looked rather sad.

In regard to new varieties, one of the most interesting was a very fine white, of the same size and substance as the pink, Miss Willmott, which caused such a sensation, but a curious point about this variety is that it has occurred as a sport from Miss Willmott, or at least has been found with this, in several different localities and has already been given three different names. Dobbie & Company showed it as White Queen and gained a certificate. Hobbies' had it as White Wings, but it transpired that Mr. Eckford's name for it was Dorothy Eckford, and it was suggested that some seeds had been accidentally mixed with those of Miss Willmott, which would account for its appearing in so many places the same season.

Of other new varieties worthy of note, Britannia, and Jessie Cuthbertson were very fine and gained the coveted award, a first-class certificate. These came from Dobbies'. In H. J. Jones' collection those grown in pots were the great attraction. They certainly make fine decorative plants and last quite as well as many other flowering plants.

In Hobbies' group was a grand display of their new white *Lathyrus latifolius grandiflorus*. This is certainly a great advance, the flowers being of the purest

Some of the pink, red and bronze varieties will give a better colored flower if the terminal bud is selected, but this will greatly depend on how varieties of this color have been cared for. If they are timed to throw a bud September 1 to 10, in almost every case the bloom from this bud will give best results.

Do not let the growths get too large before removing them, else it will be all over with the bud so far as producing a fine bloom. If the bud is not taken as soon as big enough to do the work without damaging it, it would be safer to let the plant go on to the terminal. As soon as buds are taken the suckers will begin to be quite troublesome and must be removed as they put in an appearance, to keep all the strength in the plant.

Beds that are mulched should receive extra care in watering to guard against their getting too wet, as the foliage is much more dense than a few weeks ago. The syringing should be done early enough in the afternoon to give time for drying before nightfall. Also avoid too much dampness during cloudy days.

After the buds are set liquid manure



WM. MURPHY'S FIELD OF CARNATIONS FOR SUMMER BLOOM.
(Photographed August 12)

white, almost as large as an ordinary sweet pea, borne in long racemes of from sixteen to twenty blooms on a stem. Too much cannot be said of this grand variety. It is three years since it was exhibited and gained an award from the Royal Horticultural Society, but it was not until this season that they were able to offer it and even now the stock is limited. We do not often get such a decided improvement as this, and I am told it is the result of twenty years' careful selection.

Countess Spencer, a distinct and beautiful variety, was again shown by the raiser. I understand it will be distributed in the coming season, the stock having been secured by one of our sweet pea specialists for the sum of £100. Lord Roseberry is another fine new variety. Coccinea is rather disappointing. It is a pretty color but does not stand the sun.

Jennie Gordon should become a general favorite. It is a flower of good substance and a delicate shade of color.

The various shades of mauve are the most appreciated and we do not get this peculiar soft color in many flowers. Such varieties as Emily Eckford and Lady Grisel Hamilton are great favorites. On several occasions sweet peas have been the only flowers used for table decorations at fashionable gatherings and they are also extensively used for bouquets. The queen has carried bouquets composed entirely of them.

The Cupid varieties have done better this season, but they can hardly be considered satisfactory, for the flowers drop so soon, and in many instances fail to open. We may yet get this section improved, but with the short growth we can hardly expect to get the same results as with the strong, tall-growing varieties. H.

Latest Facts About Roses.

BY EDWARD DALE, BRAMPTON, ONT.

[Read before the Canadian Horticultural Society at the Hamilton convention.]

I have been asked to give you a paper on "The Latest Facts About Roses." This may be the proper heading to use, but I hardly think so, as there may be many with later facts to give than I have.

I suppose the proper point to start from would be the cutting, as our whole output depends on it for the coming season. We always try to take out cuttings from the healthiest plants. Some years ago we made all cuttings with two buds. Later one was all we used, but again made a change and went back to two and sometimes more and feel safe in saying they never should be made with less. While a cutting with one bud may make a good, fair plant, a cutting with two or more is sure to make a better one. When it is rooted you have a plant worth starting with.

We generally give all cuttings four weeks in the sand, using three and one-half or four inches. We run a temperature of 70° bottom heat and the temperature of the house we keep the same as the house where the roses are growing, night 56°, day 66°. We pot them off into 2-inch pots, giving them about four weeks and sometimes longer in this size. For the first watering be sure and not overdo it; give just enough to moisten them nicely to the bottom, shading them for the first ten days when bright.

They will stand being put close together on the bench for the first two or three weeks; then move them over, being careful to sort them for size, giving the

largest some space between the pots; the smaller ones you can again place close together; this will let the air and light through them and harden them off. I think the time it takes to do this is well spent, as I feel sure it does young stock a great deal of good to be moved over, besides you get the small plants out where they will not get smothered. From the 2-inch we shift into "threes," giving a little drainage, and from this size we like to plant on the bench, for shifting into larger sizes means more work, more space to grow them in, and not so easy to plant, but if you are not ready with your benches for planting when a shift is needed, be sure and get them into larger pots. Do not let them get a check, as a check now means a loss of cheques later on, when you are wanting a big cut and a good plump bank account.

We use about five inches of soil on our benches. Plant own-root stock twelve inches one way and fifteen inches the other. Grafted stock we plant 12x18 and leave a hole around the top of the plant about the size of the top of the pot it was taken from and water only at the plant for about three or four weeks. By

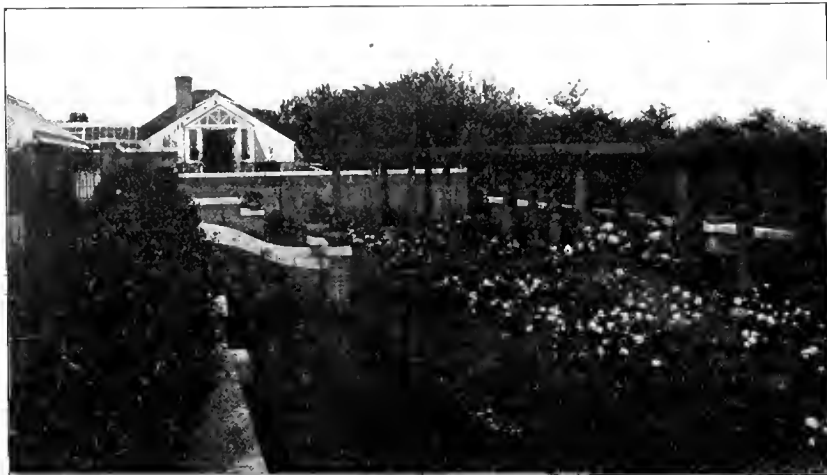
to suffer from the stronger plants overgrowing them and smothering them out. By doing this you will give them a chance to hold their place and be of some use.

Some years ago we mulched the houses we intended carrying over the longest but have not done so the last few years, using manure water in preference to the mulch, starting early in January with the first planted houses and using it once in two weeks from this time on.

Watering at all times should be carefully attended to. While being careful not to overwater, do not let the bench become too dry before attending to it. Roses planted in different soils require different treatment, so that a grower has to use his judgment and find out a great deal from experience as to when is the proper time to do his watering.

Spraying should also be carefully attended to if you want to keep down the red spider. If your benches are low be sure and get down so as to catch the bottom of all the foliage and the upper surface will get all it requires. Spraying should always be done early enough in the day to allow all foliage to become dry before night.

We have just come through the worst



ROSE GARDEN OF F. S. MOSELY, NEWBURYPORT, MASS.

this time the plants will have doubled their size. We then level the soil and start to water the whole bench, but be sure not to over-water the first time, as it will sodden the soil and do a great deal of harm. Better to give too little than too much at this time.

Be sure you attend to weeding and tying as soon as it is needed. Disbudding should also be well attended to. Run over them once a week, taking off the first leaf with the bud, as you will get a stronger break than when only taking the bud.

At one time we thought planting done in July and August was early enough but now we start in April. This gives us an early house to cut from. May and June are two good months to plant in. Stock planted at this time gets into good shape for the winter months, but of course we cannot get all planted by that time, as we have to carry some houses on till our early houses are in crop.

Do not cut from your young stock too soon. Keep them disbudded until they are good, strong plants and in good shape and if some plants are smaller than others when you are leaving them to crop, go over the bench and disbud all weaker plants that you think are likely

summer I can remember for wet and cold, the thermometer registering below 50° night after night and three nights in succession registering 44°. This with rain and cold winds nearly every day up to the middle of August has taught us always to be in shape for firing, as I believe steam in the houses in such weather is necessary, not altogether for the heat, but it gives a good dry air and also gives a chance to fight the mildew which has been growing in all its glory this season. Painting the pipes with sulphur is the only remedy we have for this. I might say, when firing at this season do not run too warm; leave your ventilators open a few inches, just enough to give a good circulation of air and if you should close down to sulphur or fumigate, when through do not put your ventilators up full height at once; only put them up a few inches at a time.

Grafting I had almost forgotten to mention. Our Manetti stocks we like to get in November, pot in 2½-inch pots close together on the bench and run at a temperature of 40°, spraying them once to four times a day, according to the weather, being careful not to get them too wet at the root and when the buds begin to swell they are ready for use.

Having your grafting frame in shape and piped so that you can always maintain a temperature of 80°, cut back your Manetti as close to the pot as it is handy to work, giving a slanting cut of not less than three-quarters of an inch. Then cut your scion to suit.

If the scion should be smaller than the Manetti, place it to one side so as to have the bark of one fit closely with the other, tying it securely and placing it in the frame, keeping closed for about seven or eight days. Then give an inch or two of air for two or three days and keep increasing it for the next twelve or fifteen days, when they will stand all the air you can give them.

In three weeks from the time they are put in the frame they are ready to leave. Be careful to shade from all sun while in the frame and about a week or ten days after taking them out. We find Perle, Sunset and Sunrise will not do grafted but Bridesmaid, Bride, Morgan, Cusin and some others have done well with us on the Manetti.

As to varieties, we grow Bride and Bridesmaid, the leaders in their color. Liberty is by far the handsomest of all

along the borders. We used Rosa rugosa, R. lucida, R. setigera, R. sulphurea, Persian Yellow, Harrison's Yellow, Blanche Moreau, Mme. Georges Bruant, Mme. Plantier, Crimson Rambler, Rosa Wichuriana, R. grandiflora and the Lord Penzance sweetbriars.

On the walls are such roses as Baltimore Belle, Crimson Rambler, Yellow Rambler, Rosa setigera and R. multiflora, also Akebia quinata, actinidias and clematises, including among the latter such sorts as Jackmani, Jackmani alba, Duchess of Edinburgh, Fairy Queen and Belle of Woking. There are also wistarias, moon vines and Cobaea scandens on the wall. The season was very favorable for growth and the only trouble was from mildew on the roses.

In preparing the rose garden for planting the top spit of an old pasture was brought in during the autumn and spread over the garden to a depth of two and a half feet. As soon as frost was out in the spring this was thoroughly matted and trenched the whole depth. The beds were staked out, the grass paths sodded and the roses planted just as they were beginning to break. They grew and

the ideals of their respective colors. Then we have Baroness Schroeder, white flesh. Prince George, grand crimson; Queen Victoria, flesh white; Francois Ortegai, fine crimson; Western Beauty, lovely pink; Princess Maud, white with red tips; Duchess of Orleans, salmon pink; Magnifica, delicate pink. We do not think much of the officinalis varieties for any purpose, except for a few very early blooms. They are probably two weeks earlier than the Sinensis varieties, but even at this they are not profitable to grow, either for cut flowers or for stock, as in our soil they multiply too slowly.

JAS. HARTSHORNE.

The Best Twenty-Five Pæonias.

I was very much interested in the list of twenty-five best pæonias, as furnished by Geo. C. Watson, in the issue of June 14 and now beg leave to submit a list selected from over 300 varieties now growing on my grounds. I may possibly wish to change this list slightly within a year or two, provided a few of the newer sorts, comprising my late plantings, prove of exceptional merit. It is well known the pæonia list is almost endless, and confusion most profound exists in the nomenclature of this grand flower, and I am pleased to see a movement is now on foot, on lines that will certainly accomplish much good.

TWENTY-FIVE BEST PÆONIAS.

Festiva Maxima, large pure white, center petals tipped carmine.

Josie, very large double white, fine.

Kasane Jishi, a fine Japanese sort, large double white, slightly shaded buff.

Puginiue, an extra large rich snow white, a fine Japanese sort.

Zoe Verniory, white guard petals, yellow quilled center with red button, fine.

Chinensis Alba, fine large pure white flower.

Marie Lemoine, extra large white, very fine.

Boadicea, splendid pink, cupped, sometimes with slight carmine markings.

Golden Harvest, the nearest approach to a yellow, very sweet and showy.

Dorchester, beautiful cream-tinted pink, very double, and fragrant.

Perfection, light pink, fading to flesh, very double, often raised in center, fragrant.

Czarina, very double, compact, shell pink shading to white, very beautiful.

Amabilis Grandiflora, white, very large, double fringed petals, fine, very sweet.

Mme. de Verneville, very large, fine white.

Eben Holden, large, double, shell pink in bud, nearly white in full bloom.

Reikaizan, a Japanese variety, pale lilac, richly fringed, very good.

Grandiflora Rubra, extra large, full and double, blood red, a superb late variety.

Floral Treasure, a fine clear bright pink, very double, brilliant and perfect.

Lady Bramwell, a fine large silvery rose.

Virgo Marie, pure white, center sprinkled with carmine, very good.

Duchess de Nemours, rose pink, very large double and sweet, the best of its color.

L'Espérance, rose, very compact, high full center, early, fragrant.

Papavilora, flesh pink, very good.

Duke of Wellington, outside white, center pale yellow, the best of its color.

La Turpe, bluish white, with tulip-like markings, fragrant.

W. H. ARENDT.



ROSES IN A FORMAL GARDEN IN MASSACHUSETTS.

red roses but we have yet to find how to keep it on the move all the year around, so have to fall back on our old friend, the Meteor. For Morgan we find an increased demand, but there is very little increase in the demand for Perle, Sunset and Cusin. Mme. Hoste and a few others that paid well to grow at one time we have had to drop.

In a Massachusetts Rose Garden.

The two accompanying illustrations are from photographs taken in the rose garden of F. S. Mosely, at Newburyport, Mass. Arthur E. Chilman, the gardener in charge, says that the show the past spring was highly satisfactory. In planting the garden, the hybrid remontants were three-year-old grafted stock, purchased a year previous to planting in their permanent quarters, that they might become thoroughly acclimated. The pergola is unattractive as yet, but it will soon be draped and beautified by the roses planted at the base of each pillar, such sorts as Debutante, Sweetheart, Dawson, Crimson Rambler, Rosa multiflora, R. setigera and some seedlings of Mr. Chilman's own raising, from the old Gloire de Dijon. In the corners and

flowered splendidly. Just now the garden is enlivened by a fine showing of Groff's hybrid gladioli.

Dividing Pæonias.

ED. AM. FLORIST:—Will you kindly inform me through the columns of your paper as to the proper time to divide and transplant pæonias? How should they be cared for after being lifted and before being sold through a store? Also what are some of the best varieties.

H. H. C.

Pæonia roots may be divided either in spring or fall. However, we prefer the last week in September for dividing and transplanting. Plants that are intended for store use should be put in a cool cellar as soon after digging as possible, to prevent them from drying up. They keep better undivided than divided, therefore would suggest not to divide too many at one time. The varieties that are considered the best are, even at that, very numerous. There are probably fifty indispensable varieties, such as Festiva Maxima, largest white; Richardson's Rubra Superba, fine red; Lady Bramwell, pink. We think the above named varieties will stand for a great many years as

Pennsylvania Horticultural Society.

The August meeting of the Pennsylvania Horticultural Society was well attended and exceptionally good exhibits were on hand. From Henry A. Dreer came a good collection of perennial phloxes, twenty-one varieties of cannas arranged as cut flowers, also a vase of Stokesia cyanca, the whole making a splendid showing. John G. Gardner also exhibited a good collection of perennial phloxes and a large bunch of the rose Gras an Teplitz.

The competitions were for collection of seasonable vegetables in twelve varieties, prizes offered by S. T. Bodine. This brought out spirited competition and

was won by John Little, second to Thomas Holland. The Waterer prize for potatoes was won by John Dodds, second to John Gaynor. The John G. Gardner prize for perennial phloxes in not less than ten named varieties was won by Wm. Kleinheinz, second to Francis Canning. F. C.

A Specimen *Cycas Revoluta*.

The sago illustrated herewith is one of a pair exhibited by W. W. Edgar, of Waverley, Mass., at the last exhibition in Madison Square Garden, New York. This plant was about twenty-five years old, seven to eight feet high, and during the preceding summer made a growth of fifty perfect leaves. There is a largely increased demand for sago palms, as is evidenced by the large number of dry stumps imported in recent years from Japan. Small to medium-sized plants with well-grown and hardened leaves find a ready sale with the local florists. It is when a plant reaches the size and health of the one illustrated, however, that the best revenue is reaped from it. With people of refined taste the common dried and painted sago leaf, for funeral purposes, is a very unacceptable substitute for the perfect natural leaf, for which a good buyer is always willing to pay a good price.

Society of American Florists.

Some of the state vice-presidents reports were published in our issue of August 30 and others are presented herewith.

Connecticut.

BY THEODORE WIRTH, HARTFORD, CONN.

The reports from the leading florists of our state pronounce the year just passed a prosperous one in all respects, and the amount of cut flowers sold during the principal holidays, such as Christmas, Easter and Decoration day, is said to have exceeded by far all previous records, having demand above supply.

The carnation keeps its place as most in demand and use, and a marked improvement in quality obtained of late has advanced the price in some places. During the entire winter season the demand

for carnations in our cities exceeded the local supply, which was partly due to the fact that in spite of the healthy and promising condition of plants, flowers were not freely produced during the early part of the season. At the present time plants in the field and housed look very promising, and no complaints are heard of stem rot and other diseases. George Osborn, of Hartford, has grown the best carnations in this section of the country. His Lawson, Estelle, White Cloud, Queen Louise, Mrs. Bradt, Eldorado, California Gold, etc., were of unusually large size and simply perfect in build and color, and they commanded advanced prices. The orders received by him in advance exceeded at all times the possible output of his establishment, which clearly shows that the flower-loving public appreciate good products and qualities and are willing to pay for them.

Roses, violets and other cut flowers held their own well, and products and sales were satisfactory. Considering the advanced cost of material and labor, affecting all trades alike, there should be an all-around increase in the price of cut flowers and plants, but, generally speaking, such advance is not noticeable. Pot plants have been somewhat in increased demand, especially in rubber plants, begonias, hydrangeas and, above all, ferns, the Boston fern leading as favorite.

The sale of bedding plants has been in most places about the same as in previous years and but a small increase in that line is noticeable in some localities. On the other hand, the demand for hardy plants shows a decided advance, and the nurserymen have been doing a good business along all lines. Ornamental shrubs and trees, both coniferous and deciduous, are used profusely in the decoration of home grounds all over the country, and the homes are very few which do not show some acquirement from the nurserymen which a few years ago were little or unknown. True, such plants as *Crimson Rambler* rose, *Clematis paniculata*, *Hydrangea paniculata grandiflora*, etc., are used so universally as to justify the term of "overdoing it" by the cross-country traveler, but from a point of view of the individual owner his selection and taste are good and his progressive spirit to make his home attractive praiseworthy. The demand for herbaceous plants is steadily increasing, and the hardy flower garden is coming more and more into deserving prominence.

Greenhouse building has been going on all over the state, although possibly not in the measure which the prosperous business period just passed and the confidently expected increased demand for cut flowers would seemingly warrant.

In Hartford, J. Coombs has added another carnation house to the two built a

year ago, 27x150, and has now 90,000 square feet of glass, the output of which covers only two-thirds of the sales at his store. G. F. Heublein & Brother are building a handsome store and adjoining conservatory opposite their hotel on Gold street. The structure promises to be the handsomest building of its kind between New York and Boston. This attractive new establishment is expected to fill a long felt want in the keeping of larger palms and other ornamental plants for decorative purposes, and under proper management the undertaking is promised a bright future.

A. N. Flerson, of Cromwell, built one house, 50x60, for lilies, one 23x400 for general plant stock, and one 35x400 for rose stock, all at his old plant, where he is at present constructing a new central heating system with nine tubular boilers to take care of the whole 300,000 feet of glass. His new plant, built some two years ago, contains 200,000 feet, and the output of the whole establishment, both in cut flowers and plants, is something enormous. It might be interesting to give a few figures: From June 1, 1901, to June 1, 1902, the cut of roses was 1,077,574; of carnations, 246,913; of chrysanthemums, 70,094; of lilies of the valley, 741,867.

In Bridgeport Stephen D. Horan is rebuilding about 10,000 feet of glass, and other new houses and improvements are going on in a number of other places, showing progressive times and people.

Social organizations for the betterment and advancement of our noble profession and the creation and furtherance of good will and sociability amongst the craft, our state has but few, and the want and need of such is fully recognized by some of the leading and progressive florists and horticulturists of the state.

The New Haven County Horticultural Society is the leading society in the state, is doing good work at its regular meetings and through its exhibitions, and is at present preparing for the largest and most complete show in the history of the society, to take place this coming fall.

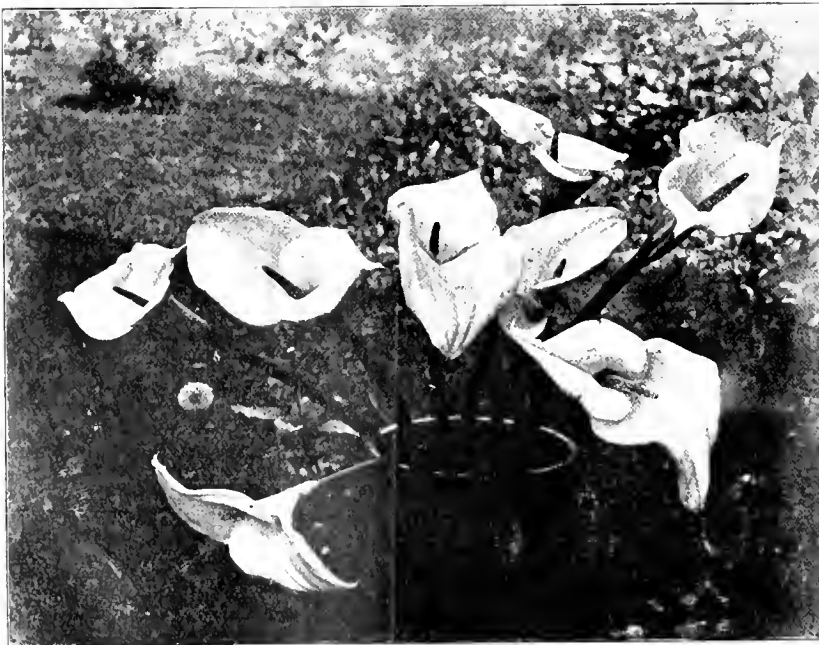
Out of the ruins of the once flourishing Connecticut Horticulture Society at Hartford has come a new growth of seemingly vigorous, ambitious blood, with modern tendencies and ideas, progressive qualities and intentions. This young plant has been christened the Hartford Florists' Club, and although its members are but few in number the club can look back with great satisfaction upon the work accomplished during the short period of its existence.

These two associations, it is hoped, will establish and maintain closer relationship in the future, a beginning to that effect having been made, and a notable event in the history of both societies, the memory of which will long live with those that took part, was an outing to beautiful Hubbard Park, Meriden, Conn., Meriden being half way between New Haven and Hartford. The two clubs met at the park, where they were received by Walter Hubbard, the board of park commissioners and the mayor.

Under the kind guidance of those gentlemen this magnificent mountain park, containing in all over 1,000 acres, the generous gift to the prosperous, progressive town of Meriden by its first citizen, Walter Hubbard, was inspected in all directions, and the climbing of the lofty heights of Fairview, Castle Craig and West Peak, on the famous hanging hills of Meriden, 1,000 feet above the sea level, was accomplished in good time and with the enthusiastic spirit of an advancing, irresistible army corps at the head of which was W. J. Stewart, who, by the way, acted as chaperon by bringing the New Haven boys on and the Hartford boys home. The magnificent view over the hilly country for thirty miles around, together with the attractive natural scenery of the park itself, was greatly enjoyed and admired by all those present, and the splendid and liberal hospitality shown us by our hosts could not help but overcome all feeling of tiredness and exertion of even the unexperienced mountain climbers.

This sociable outing and meeting of our two societies will lead on to combined working in the large field of possibilities before the craft in general, and the occasion very forcibly impressed on me the thought what good work florists' clubs and horticultural societies could do in interesting themselves and in taking the creating and leading part in all movements for municipal improvements, especially in the development and ornamentation of public grounds and streets.

The far-reaching educational value of



MALFORMED CALLAS CUT FROM BENCH PLANTS JUNE 15, BY VALENTIN BURGEVIN'S BONS, KINGSTON, N. Y.

parks and well developed and maintained public grounds and streets is recognized by all observing people, and our small state of Connecticut is in a position to show the beneficial influence such improvements have on the home grounds of its citizens. Hartford, New Haven, Bridgeport, New London, Middletown, Waterbury and Willimantic can give convincing proofs for this statement.

True, not many towns and cities are so fortunate as to have so public-spirited citizens as has Meriden and Hartford, for instance, where the gifts of noble men have not only opened the way for such acquisitions and improvements, but have developed them to stay and to be forever a blessing to the human race, but every city, town and village has endless opportunities and possibilities for municipal development on such lines, and it is astonishing to see how in many instances the progressive and active leadership of a few men can awaken public spirit and pride to such an extent as to make the seemingly impossible not only feasible but even easily accomplished.

The close, intimate relationship to nature which we all enjoy in the following of our chosen noble profession does not only qualify us to take a leading part in all such improvements, but strongly suggests that we take the initiative in that direction. Let us think of the good we can do by showing how to take care of our trees, at this very time when numerous devastating insects are threatening to shorten their life. Let us show what can be done for the present and coming generations by improving and planting our schoolhouse grounds, giving thereby object lessons which will surely bear fruit, since they will be started in the retentive and productive mind of what will some twenty years from now be the hopeful, progressive working element, the stay of our nation. Let us branch out of the narrow single track of progress, which has as its destination commercial advancement of our trade and personal gain in the acquirement of professional knowledge and experience, and let each society that follows the banner of our national association adopt as one of its fundamental aims the ideal purpose of being a strong helping hand in the municipal development of our communities. It will not only be to our credit and of benefit to our beloved country, but it will bear compound interest in return. I do not say that nothing is done in that direction at present, but I do say, let us do more of it.

Indiana.

BY GEORGE E. WIEGAND, INDIANAPOLIS.

The amount of glass erected this season was 89,000 square feet. The principal horticultural event was the American Carnation Society's meeting at Indianapolis, February 17 to 20.

This season has proved most remarkable in several respects: First, for the general excellence of stock grown; second, for the phenomenal amount of business done; third, for unprecedented demand for first-class stock.

Easter and spring trade was the best in the history of the state.

Maryland.

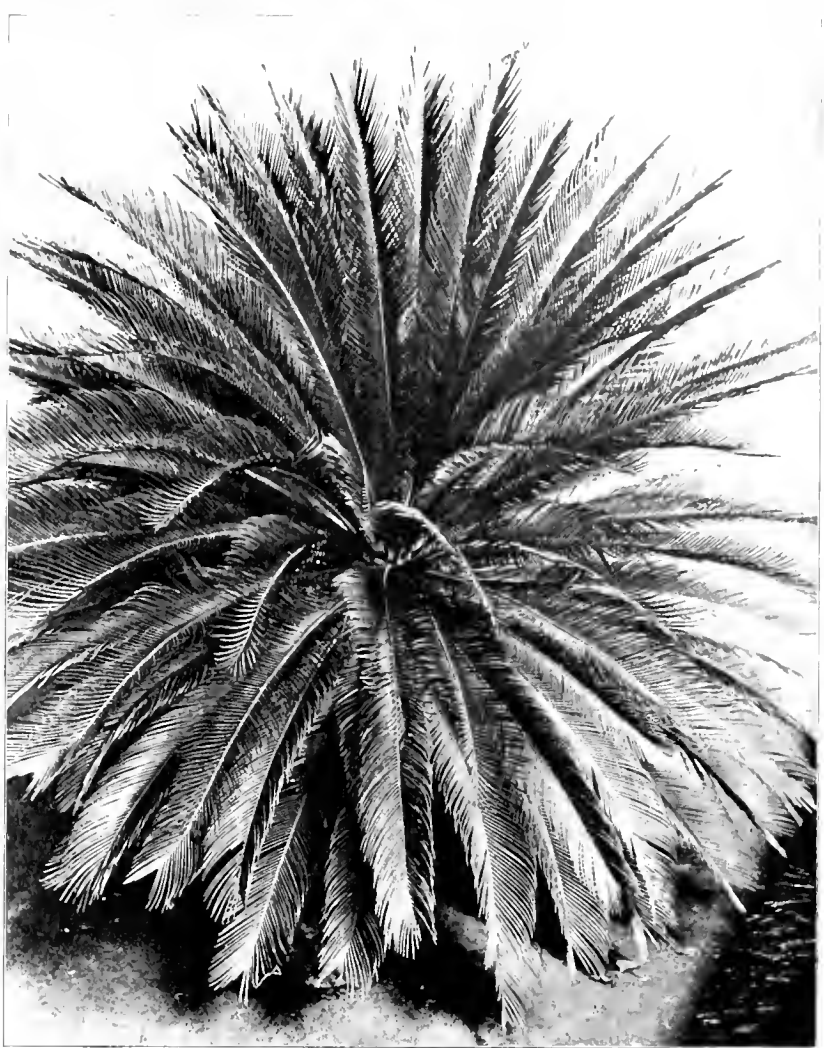
BY CHARLES L. SEYBOLD, BALTIMORE.

The trade in Maryland during the current year was more pronounced in the increase of prices than in the increase in volume of business. In consequence of the higher prices, the total sales in money value were a little larger than previous years, while the output was no greater. The Florists' Exchange, a mutual, co-operative commission house, gives the cue to the situation.

Building has been limited, owing to the higher price of material. The coal scarcity is giving the trade much concern. Those who have heretofore depended upon hard or anthracite coal are making arrangements to burn bituminous.

The large greenhouses in the different parks, erected to grow the stock of bedding plants for the different parks, have passed their experimental stage and are now supplying all the flowers needed in the different sections.

The free flower shows held under the auspices of the Gardeners' Club have proven of great benefit to the trade at large, and have increased the sales of the particular flowers so exhibited. Our carnation specialists have made great progress in their particular lines, not only in the mode of culture, but in the develop-



SPECIMEN CYOAS REVOLUTA GROWN BY W. W. EDGAR, WAVERLEY, MASS.

ing of new varieties. Perhaps to-day there are grown in this state as fine carnations as in any state of the Union, and only brought about by special effort.

We are all satisfied with this year's doing and only regret to be compelled to record the deaths of two of our most earnest workers—James Pentland, who, as a gardener of the old school, has done much in the advice and benefits of experience for the trade of Baltimore, and William McRoberts, of the newer school, whose energy, intelligence and enthusiasm were always ready for any project which was for the general good.

The Gardeners' Club has flourished and its influence is felt in every line of action. We hope to continue the good work.

Missouri.

BY CHARLES A. JUENGLER, ST. LOUIS.

I am pleased to report a prosperous year. All our local growers, as well as those of our cities and my state, have profited by the increased demand and good prices during the whole season. Our retailers, a number of them, report a most successful season, and while others are not so well off, in fact, the floricultural business all over our state, from the reports that I have, has been very satisfactory. Nearly all of the growers are adding new glass and this alone shows that the season has been a good one.

I know of nothing that would call for special mention from Missouri. I only regret that I cannot be with you in person, and that not more from our state have joined this society and that the delegation from here is so small, as we would have been pleased to have had a large attendance at the Asheville convention. I trust that you will have an interesting, pleasant and profitable meeting.

North Carolina.

BY JAMES B. LAUR, FAYETTEVILLE, N. C.

Only one new plant has come to our notice, *Abies Arizona argentea*, the silver cork fir, introduced by the Pinehurst Nurseries.

The largest increase of glass structure is at Pomona, where J. Van Lindley & Company have added two new houses, one for general stock, 16x84, and one for carnations, 16x216. There is also increase of glass at Raleigh, Wilmington and other points.

There is an increased demand for roses, evergreens and shrubbery, showing a healthy growth of the desire on the part of our people for the permanent improvement of their homes. There is also an increased demand for palms, ferns and other stock for house decoration, and a slight decrease in the demand for summer bedding stock.

The demand for cut flowers shows a healthy and steady increase, especially for funeral work. There is a call for a better quality of stock. This branch of the business in North Carolina had a long and slow struggle for existence, with a climate that gives flowers outdoors for about ten months in the year. With every home in city, town and village with more or less pretension to a flower garden, it was hard to make our people believe that flowers had any money value, but some of us have been sowing seed for the past thirty years, and the reaping has come at last and others have entered into the harvest and we will all rejoice together.

The struggle for existence among our people for the past thirty-five years has prevented very much being done in landscape gardening, but our people have met with good success in their business and are now turning their attention to building fine homes and surrounding them

with beautiful grounds. The work done at Biltmore, which we will all be privileged to see, has done very much to revive the love for this branch of horticulture. I say revive, because in the old days it was here this work flourished and we will again take our proper place in the front in gardening out of doors.

The extremely dry spring and summer, we fear, has cut short the prospect for a full crop of bulbs, and just here I would say that the desire to get cheap stock on the part of at least some of the wholesale houses at the north has done much to demoralize this branch of the business. Giving contracts to farmers without knowledge of the work has flooded the market with very inferior stock and run down prices below what carefully grown bulbs can be produced for. Be careful, gentlemen, or the goose of the golden eggs may yet be killed.

And now, lest I weary you, I will close by saying welcome to North Carolina, the only state in the Union that can fill every blank sent out by the Department of Agriculture.

Chicago.

TRADE INTERRUPTED BY A HOLIDAY.—LITTLE IMPROVEMENT IN BUSINESS.—ASTERS CONTINUE IN GREAT OVER-SUPPLY.—ROSES TOO PLENTIFUL FOR A READY MARKET.—VARIOUS LOCAL DOINGS OF INTEREST.—CHANGES IN BUSINESS.—SHORTAGE OF COAL CAUSING ALARM.

The best business day of the week was divided in half by the early closing on Labor day, there being but one or two of the houses which remained open on that afternoon, to the disappointment of a number of out-of-town buyers, whose telegraphic orders failed of delivery until the following morning. It ought to be thoroughly understood by this time that the wholesale houses close at noon on holidays, but perhaps the out-of-town people do not appreciate that in Chicago the first Monday in September is one of the most generally observed holidays on the calendar. The trades unions paraded the streets on Monday 60,000 strong. During the week demand has shown little indication of the approaching autumn. Summer supplies and summer values have prevailed, although the weather is quite cool. Asters are coming in by wagon-loads and each day's receipts are moved with difficulty, although every buyer takes more or less asters, as they are very good with a majority of the shippers and a most economical flower for funeral work. Beauties are in fair demand and such adequate supply that there is as yet no indication of advancing prices, although stems are growing longer day by day. The season seems to have been favorable for all roses, for not only Beauties but Brides and Bridesmaids are of better quality than usual in the first week of September. There are few good Meteors about and the growers are not yet cutting from the new plants of Liberty. Golden Gate is plentiful, but as yet few Ivories are coming in. It is noteworthy the way the carnation supply has increased and improved in the last two or three weeks. From being practically none in the market, there is now a plenty, including all colors. Lily of the valley is in ample supply and of excellent quality, and the same may be said of the greens. Summer flowers other than asters are in reduced receipts.

The coal situation is affording a great deal of concern to the local growers, although soft coal is used universally in this section. The advance in price because of the anthracite miners' strike means a great deal to those who use large quantities. The advance in price of bituminous is from 50 cents to 75 cents a ton, with a further rise in pros-

pect. The way hard coal has advanced is shown by the fact that last week the National Biscuit Company gave a certified check for \$9,250 in payment for 1,000 tons on the track, and in Chicago delivery is usually reckoned at 60 cents a ton.

F. L. Pruse, at Des Plaines, has retired from business and leased his range of houses for ten years to the Des Plaines Floral Company, which consists of H. C. Blewitt, Harry Blewitt and John Prickett. Harry Blewitt has been with Peter Reinberg for the past two or three years and will be the manager of the new concern. This year carnations will be grown, but next season it is the intention to put most of the houses into Beauties.

After a month's tie-up the boiler-makers' strike has been satisfactorily settled and the manufacturers are hustling to get out belated orders. The Kroeschell Brothers Company says this has been one of their best seasons in spite of the interruption to business.

There is a disposition to get out of the rut in the horticultural and floricultural displays at the State Fair to be held at Springfield the latter part of this month, and John Thorpe was called down to give the managers advice as to how to do it.

After the convention C. W. Kellar and E. F. Winterson and their wives went farther south to the Lookout Mountain and Chicamunga battlefields, which are now maintained as government parks. They speak of it as a most delightful trip.

M. Winandy is again getting a fine cut of Beauties and roses. His success has been unexcelled in the experience of the numerous vegetable growers who have gone into cut flowers in the past two or three seasons.

John Poehlmann met with a serious fall while playing ball at Morton Grove last Sunday. He strained his knee most painfully and is likely to be in bed for two or three weeks in consequence.

H. W. Rogers and R. G. Guenther have obtained a ten years' lease of the Youmans greenhouses, at Winona, Minn., and have gone into business as the Winona Floral Company.

E. E. Pieser, of Kennicotts, says he never saw the market so variable as this summer, one day feast, the next famine in salable items. Such a condition results in no stability in values.

Before the last of the lilies are out of sight new ones are coming in, Bassett & Washburn having begun to cut from plants from cold storage bulbs brought in in May.

W. W. Weil, for six years with Geo. Walther, at 535 West Sixty-third street, has resigned his position and will start in business for himself in the same locality.

Web. Randall returned this week from an outing at St. Joseph, where A. L. Randall is still busy packing the finest peaches on the top of the basket.

Leopold Koropp is administrator of the estate of Louis Gregor, the deceased member of the Harms Park Floral Company.

Frank Schram, at Park Ridge, makes bee-keeping a side line to carnation growing. He now has about thirty hives.

J. B. Deamud has gone to his farm near Caro, Mich., for a few days, to superintend some building in progress there.

Bentley & Company are rearranging their place, enlarging the ice box and getting into better shape generally.

O. W. Johnson, of the Foley Manufacturing Company, is at Toronto this week on his vacation.

A. H. Schneider, at Oak Park, will cut

from two additional houses of carnations this season.

Vaughan's Seed Store is receiving two car loads of Dutch bulbs this week.

Peter Reinberg is on his annual expedition after prairie chickens.

The first violets made their appearance the middle of this week.

Jno. S. Forster, of Evanston, is now at Colorado Springs, Col.

John Mangel is at home from his European trip.

Visitors: E. J. Fancourt and B. Eschner, Philadelphia.

New York.

NOTHING OF SERIOUS IMPORT IN THE MARKET SITUATION.—FIRST VIOLETS ARE WELCOMED.—CAME FROM UP THE HUDSON.—THE GROWER.—AN INTERESTING CLUB MEETING ASSURED.—A VARIETY OF LOCAL AND TRADE NOTES.

Place: West Twenty-eighth street.

Time: present.

Characters: An Artificial Flower Maker and Charlie Carlin, a philosopher.

A. F. M.—"What is an azalea?"

C. C.—"It's an Easter plant; shaped like an umbrella, with flowers the size of butterflies."

A. F. M.—"What color?"

C. C.—"All colors."

A. F. M.—"Why, that's what they call in Germany a Roden-doden-den."

There may be a few more serious conferences in the wholesale cut flower district than the above-quoted conversation but if so they were on the strict quiet and hence we cannot record them. But that is about how business stands at present writing. Nothing more alarming than the repainting of a few interiors, the absence of Frank Traendly on a week's trolley riding and the mysterious remodeling of the only vacant store in the block has happened in the neighborhood this week, but it is rumored that W. A. Bridgeman is soon to resume his former position at Thorley's, and it is generally known that Hicks & Crawbuck, of Brooklyn, are to open a wholesale establishment in West Twenty-ninth street.

The first violets of the season to reach the wholesale market came to Ford Brothers from A. W. Williams, on August 28, there being 300 in the shipment, and they were sold on sight. The arrival of the first violets is an event of sufficient importance to warrant the publication of the portrait of the enterprising owner, so we take pleasure in presenting the likeness of Mr. Williams (page 214) who is one of the leading violet growers of Highland-on-the-Hudson. Mr. Williams is a farmer, but two houses of violets grown three years ago paid so well that now he has about 15,000 feet of glass devoted to that specialty and plenty ground-room for more.

Monday evening, September 8, is the date of the next Florists' Club meeting and there will be abundant diversion for all who attend, for Patrick O'Mara and Benj. Hammond are to relate their experiences and impressions of Asheville and, it being dahlia night, A. L. Miller and others have promised a big display of new sorts of this popular garden flower.

George Gross, for the past three and one-half years in the employ of Henry Erickson, Brooklyn, was accidentally killed by falling from the platform of a moving railroad train at Mauch Chunk. Mr. Gross, who has been identified with the gardening business in this vicinity for many years, is highly spoken of by those who knew him and his late employer feels the event keenly.

M. Sehling, formerly buyer for E. Stewig, is opening a new store at Sixth avenue and Fifty-sixth street. Another new place is that of John Lucie, at Broadway and One Hundred and Second street.

The first chrysanthemums of the fall crop came to E. C. Horan this week, from A. C. Zvolanek, of Grand View, and the variety was Montmart.

Thos. Knight, American representative of Linden & Company, is now at Brussels, Belgium, having arrived there August 20.

Siebrecht & Sons have the steel framework in position for a fine curvilinear conservatory at 409 Fifth avenue.

Robert Kelly, son-in-law of James Hart, the commission man, died on Sunday, August 31.

Henry Siebrecht, Jr., returned from his European trip on Saturday, August 30.

Adam Laub & Sons, of Hughsonville, sent in their first violets September 1.

Visitors: J. F. Huss, Hartford, Conn.; Allan Pierce, Waverley, Mass.

Philadelphia.

MARKET PROJECT SURE OF CONSUMPTION.—MEETING CALLED.—LARGE SUPPLIES OF ASTERS.—OTHER STOCK PLENTIFUL.—GROWERS PLEASED WITH CARNATION PROSPECTS.—CLUB MEETING.—VARIOUS NOTES.

Simple asters are now at their best, many fine flowers being seen, and prices range from 75 cents to \$2 per hundred, the latter for the disbudded stock, some of which measures four inches in diameter. The bright pink, white and purple are most in demand, the Daybreak and light lavender colors being moved with difficulty. Robert Craig & Son are carrying *Lilium album* and roseum and getting 50 cents to 75 cents per dozen for long stems. Roses are more plentiful, particularly Beauties, which can now be had with thirty to thirty six inch stems. Prices range from \$1 to \$2 per dozen. Kaiserin and Carnot bring \$4 to \$6 per hundred for the best stock. There are a few fair carnations. Most of the Philadelphia growers have their carnations housed and express themselves much pleased with appearances. R. Craig & Son have a house of Lawson which looks fine. Their stock of Adonis, the new red, is in fine condition and as soon as the new range of houses being erected by the Lord & Burnham Company is completed they will be started on their winter campaign. There has been an enormous demand for the young stock which is to be sent out next spring.

The September meeting of the club was not very well attended. H. F. Michell, who has just returned from a European trip among his seed growers, is to give the club an account of his tour at the October meeting. S. S. Pennoek will also give his version of the Asheville convention at the same time. Mr. Heacock told of the convention as he saw it in a very interesting paper, while Robt. Kift gave an account of the trip up Mount Mitchell. Nominations for officers of the club to serve for the ensuing year resulted in five candidates for president, W. K. Harris, Jos. Heacock, H. F. Michell, John Westcott and Leo Niessen. This is the first time there has been anything like a contest for this office. Mr. Harris, who has served five years, begged to be excused from another term, and as all the others also declined a motion was made and carried that they all stand and let the vote decide at the next meeting. For the office of vice-president David Rust was nominated, as were Edwin Lonsdale and

J. W. Collesh for secretary and treasurer respectively.

The Philadelphia wholesale cut flower market is surely born and needs only to be baptised and clothed with the corporation garment of the law to enable it to move forward and fill that long-felt want. A meeting is to be held next Thursday afternoon, September 11, at Horticultural Hall, of all growers and florists' supply men. A temporary board of directors will be elected, whose duty it shall be to get out articles of incorporation. It is proposed to have a capital stock of \$20,000, one-third of which only is to be sold. Shares will be \$20 and each stall holder is expected to hold at least one share. A committee is looking up available sites and will probably report at this meeting. It is earnestly to be hoped that every grower of cut flowers who has this city for his market will be present and give his name and influence to this movement, which promises so much for the improvement of the trade in this community.

Fred. Ehret and Rupert Kienle have returned from their European trip and report having had an elegant time.

K.

Boston.

LITTLE DOING IN WHOLESALE QUARTERS.—AN ABUNDANCE OF MATERIAL.—THE FIRST CHRYSANTHEMUMS.—GOOD HYBRID ORCHIDS SHOWN.—VARIOUS NOTES.

Very little stirring in the general trade thus far. There is an abundance of material in the cut flower market, of fairly good quality on an average and no special demand in any direction. The opening days of September have been the warmest of the season, but as yet outdoor bloom of all kinds is good, owing to the abundance of rain during August. The first suggestion of autumn was seen in Welch Brothers' when, on August 25, Lewis sent in a shipment of Fitzwygram chrysanthemums.

At Horticultural Hall on Saturday, August 30, there were on exhibition some very handsome plants in bloom of hybrid cattleyas raised by E. O. Orpet, gardener to E. V. R. Thayer, of Lancaster, Mass. Among the named varieties were *Laelio-cattleya* × C. G. Roebing, *Cattleya* × *interglossa*, *Laelio-cattleya* *Blechnensis*, *Cattleya* × *Patrocinii*, *Cattleya* × *Atalanta*, *Laelia* × *ingrescens* and *Laelio-cattleya* *Proserpine*. R. P. Struthers made an exhibit of over 100 named dahlias.

The Abbott Fern Company will open a place of business at 14 Brattle street on September 10.

Visitors: A. L. Thorne and Mrs. Thorne, Flushing, N. Y.; J. H. Troy, New York.

St. Louis.

MARKET STRONGER AND STOCK SHOWS CONSIDERABLE IMPROVEMENT.—NOTES BY THE TOURISTS.—JOTTINGS.

The wholesale market is much stronger this week and a slight improvement in stock is noticeable. Roses are quite plentiful, but first-class stock still remains close. Liberty and Bride are about the best sent in, with a few Bridesmaids. American Beauties are very good. Carnations are beginning to come in stronger, both in stem and bloom. Some very fine Ethel Crocker are being sent in from the neighborhood of Kirkwood. Asters are still plentiful, but it can be seen that they are beginning to approach the end of their season.

The next meeting of the St. Louis Florists' Club will be held at Odd Fellows Hall No. 2, on September 11, and an illustrated essay by Parker T. Barnes is promised. Installation of officers will also take place at this meeting.

Geo. Waldbart took a trip to Chicago and Milwaukee immediately on his return from the convention. He speaks with wonder of the large ranges of glass at Chicago and the amount of stock to be seen at the wholesale houses.

The visitors to the convention are home again. It is reported that several of the St. Louis people were ill at Asheville. J. Connon, Geo. Waldbart and Ferd. Weber were among those who noticed the changed conditions. R. J. M.

Missouri State Fair.

At the Missouri State Fair, held at Sedalia, August 18 to 23, the following premiums were awarded in the floricultural department:

For collection of greenhouse and hot house plants, first, Gelven & Son; second, Chas. Koepfen,

Collection Rex begonias, Gelven & Son, Chas. Pfeiffer.

Collection geraniums, Chas. Koepfen, Chas. Pfeiffer.

Collection carnations in bloom, Gelven & Son, Chas. Pfeiffer.

Collection palms, Gelven & Son, C. Koepfen.

Collection ferns, Chas. Pfeiffer, Gelven & Son.

Collection foliage plants, Gelven & Son, Chas. Pfeiffer.

Collection cacti, Gelven & Son.

Collection roses in bloom, Chas. Koepfen.

Best and largest collection blooming plants, Gelven & Son, Chas. Pfeiffer.

Pair hand bouquets, Gelven & Son, Chas. Koepfen.

Single floral design, Chas. Koepfen, Gelven & Son.

Display of cut roses, Gelven & Son, Chas. Koepfen.

Display of cut carnations, Chas. Koepfen, Gelven & Son.

Charles H. Gelven was the superintendent of the department and the judges were Charles Purzner, of Jefferson City, and Robert Semmler, of Sweet Springs.

NASHUA, N. H.—August Gaedeke & Company took most of the first prizes at the floral department of the Nashua Fair this week.

CONCORD, N. H.—The floral department in the Concord Fair is very extensive this year. Messrs. Wilson and Benedict are large contributors.

JEFFERSON CITY, Mo.—Chas. Purzner, of the firm of Busch & Purzner, has sold his interest to his partner, Hugo Busch, and is talking of going into business somewhere in the east.

COLORADO SPRINGS, COL.—J. W. Smith, who is the managing partner of the Broadmoor Floral Company, now a year old, reports a very prosperous start in business.

SARATOGA SPRINGS, N. Y.—This was floral carnival week, the greatest event of the summer at Saratoga. The festivities opened on Monday evening with the greatest ball in the history of the nine years of the floral fete, and culminated on Thursday with the annual parade of decorated vehicles. There were some splendidly decorated turnouts, the automobiles being conspicuous.

THE AMERICAN FLORIST

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The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines *only*.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday
to secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

MANY of the western florists are busy
at their local autumn state and district
fairs.

THE aftermath of advertising that is
persisted in may be more valuable than
the first gleaming. There is wondrous
cumulative effect in persistent advertising.

IN many sections of the country the
nights the past week have been so cool
as to necessitate light firing by rose
growers. And still the question of coal
supply is not settled.

THE mailing label on your paper shows
when your subscription expires; when
you send your renewal note that the
date changes within two weeks; it will
serve as your receipt.

AN innovation, or perhaps it should be
called a reversion, at the Kansas City
flower show, will be the display of classes
for twelve, eighteen, twenty-four and
thirty-six chrysanthemum cut blooms,
mossed on boards, after the English
style.

Unpack Dutch Bulbs Quickly.

M. Van Waveren & Sons, of Hillegom,
Holland, offer the following caution
regarding Dutch bulbs:

"Owing to the exceedingly wet and
cold weather during the greater part of
August, Dutch bulbs could not dry so
thoroughly as usual. This will do no
harm, as they ripened off well enough,
but it is of the greatest importance to
unpack them directly on arrival, other-
wise they will be liable to mould. After
unpacking the next thing to do is to
bring them to a dry, warm and airy spot
and spread them out so that they can dry
quickly. On no account should bulbs be
left in cases or paper bags.

Heating a Small House.

ED. AM. FLORIST:—What will be the
most economical way, fuel and labor con-
sidered, to heat a greenhouse 10x12 and
seven feet to ridge, banked to eaves. A
temperature of 60° in zero weather is
desired and the fires can not always be
watched at night. C. H. T.

The best way will be to heat by pipes
from a coil in a furnace or a hot water
heater if near a dwelling. If this cannot be
done use a small hot water heater rated for
100 to 120 square feet of radiation. The
heating surface of the house should be
about seventy square feet. This can be
secured by running three 2-inch or four
1½-inch pipes around two sides and one
end. L. R. TAFT.

Wants Lavender.

ED. AM. FLORIST: Will you kindly tell
me where I can get lavender flowers for
putting in linen? Miss JESSIE ROSE.
Little Rock, Ark.

Steam in a Carnation House.

ED. AM. FLORIST:—I am building a
carnation house 23x70 feet and have
3-inch pipe to heat it with, using steam.
Will a 2-inch overhead flow be large
enough or would 3-inch be better? How
many 3-inch returns will be needed to
keep a temperature of 55° in zero
weather? The house is well protected
on the north and west. The house will
be about ten feet to ridge, the roof in
two short spans. C. L. V.

Ordinarily a 2-inch main would answer
for a house of this size, using small pipe,
but with 3-inch pipe for the returns it
will be better to use a 3-inch main. This,
with four 3-inch returns running across
the farther end and along the sides, will
afford the desired temperature.

L. R. TAFT.

Greenhouse Building.

Mt. Vernon, N. Y.—Chas. A. Tier, two
houses 16x90.

Bristol, R. I.—Spencer Rounds, 100-
foot house.

Hartford, Conn.—J. G. D. Newton, one
house.

Shillington, Pa.—H. M. Shilling, two
houses.

North Beverly, Mass.—Geo. W. Glines,
one house.

Cambridge, Mass.—F. C. Becker, one
house.

Westbrook, Me.—Benj. Elwell, one
house.

Reading, Pa.—Brookside Greenhouses,
two houses.

Marlboro, Mass.—W. L. Lewis, 70-foot
house.

Baldwinsville, Mass.—A. L. Paine, veg-
etable house.

Rosemont, Pa.—A. B. Johnson, one
house.

Meriden, Conn.—A. Greenbacker &
Sons, three carnation houses.

Peabody, Mass.—J. M. Ward & Co.,
violet house.

Greenville, N. J.—George Kruse, three
houses 211 feet long.

Mechanicsville, N. Y.—William Baker,
house 22x96.

Newton, Mass.—W. M. Mick, one
house.

Piping for Steam.

ED. AM. FLORIST:—I have two houses
which I wish to heat by steam to a tem-
perature of 60°, using a tubular boiler.
The pipes are to be hung on purlin sup-
ports and on the wall, as I shall use brick
and tile benches. The houses run east
and west, from a shed or boiler room,
one going out from each side. Following
are the dimensions of each: One is
22x145, south wall four feet, north wall
six feet, north bars seven feet, south bars
seventeen feet six inches, no glass in sides
or end. The other house is 30x125, with
six-foot walls, north bars fifteen feet ten
inches, south bars nineteen feet ten
inches, one row of 24-inch glass in south
wall and glass in one end. How many
pipes will it take and how large a boiler?
I would like to use 2-inch pipe for
flows, if possible, as I have a great deal
of it on hand. LOCKPORT.

The narrow house can be heated with

two 2-inch flows and ten 1¼-inch returns.
The other house will require three
2-inch flows and fourteen 1¼-inch returns
for 10° below zero. A twenty-four horse-
power boiler will answer with a night
fireman, but if to be left for a number of
hours at night, a thirty horse-power will
be better. This should have twelve square
feet of grate. L. R. TAFT.

Coming Exhibitions.

[Secretaries are requested to supply any omis-
sions from this list.]

BOSTON, MASS., September 11-14, 1902.—Annual
exhibition of plants and flowers Massachusetts
Horticultural Society. W. P. Rich, Sec'y, Horti-
cultural Hall, 300 Massachusetts avenue.

BOSTON, MASS., November 6-9, 1902.—Chrysan-
themum show Massachusetts Horticultural Soci-
ety. W. P. Rich, Sec'y, Horticultural Hall, 300
Massachusetts avenue.

CHICAGO, ILL., November 11-15, 1902.—First
annual exhibition Chrysanthemum Society of
America and twelfth annual exhibition Horti-
cultural Society of Chicago, to be held jointly. E.
A. Kanst, Assistant Secretary, 5700 Cottage Grove
avenue, Chicago.

KANSAS CITY, Mo., November 3-8, 1902.—Flower
show, Convention Hall Directors, Kansas City, Mo.

LENOX, MASS., October 23, 1902.—Fall exhibition
Lenox Horticultural Society. F. Herreman, Sec'y.

LOUISVILLE, KY., November 12-15, 1902.—Chry-
santhemum exhibition Business Women's League.
H. Nanz, superintendent, Louisville, Ky.

MADISON, N. J., November 6-7, 1902.—Seventh
annual flower show Morris County Gardeners' and
Florists' Society. C. H. Atkins, Sec'y, Madison,
N. J.

MARSHALL, TEX., November 13-14, 1902.—Annual
flower show East Texas Flower Association. W.
L. Martin, Sec'y, Marshall, Tex.

NEW YORK, N. Y., October 30-November 6, 1902.
—Annual exhibition New York Florists' Club.
John Young, Sec'y, 51 W. Twenty-eighth street.

PHILADELPHIA, PA., November 11-15, 1902.—
Annual autumn exhibition Pennsylvania Horti-
cultural Society. David Rust, Sec'y, Horticultural
Hall, Broad street below Locust, Philadelphia.

PROVIDENCE, R. I., November 13-14, 1902.—
Chrysanthemum exhibition Rhode Island Horti-
cultural Society. C. W. Smith, Secretary, 27-29
Exchange street, Providence.

ST. PAUL, MINN., November 3-5, 1902.—Chrysan-
themum and orchid exhibition Ladies Auxiliary of
the Northwestern Manufacturers' Association.
Mrs. A. P. Moss, Sec'y.

TARRYTOWN, N. Y., November 11-13, 1902.—
Fourth annual exhibition Tarrytown Horticultu-
ral Society. Edw. W. Neubrand, Sec'y, Tarry-
town, N. Y.

Heating Plant Houses.

ED. AM. FLORIST:—We would like your
advice in regard to heating greenhouses.
We are now erecting two new ranges of
houses. In one range the houses will be
seventeen feet wide and in the other
range about ten feet wide. Both ranges
are to be used exclusively for growing
plants and not for cut flowers. Would
you advise using hot water or steam and
which is the most expensive? Would you
advise overhead or under bench system
of piping and how many pipes to the
house? Our previous experience has been
entirely with hot water system of heat-
ing, but we were thinking of changing to
steam. I. S. C.

The question cannot be answered very
definitely as it does not state the number
or length of the houses. If there are
only three or four houses of moderate
length the best satisfaction will be
secured with hot water, and it will be
found fully as economical in fuel as steam
when used in large ranges, besides afford-
ing an even temperature with very little
care. When the cost of the heating plant
is an object, steam will be selected for
large ranges, as the first cost will not be
more than three-fourths as much as for hot
water. If hot water is used 2-inch pipes
should be used unless the houses are
more than 200 feet long, when 2½-inch
will be better. If there are a number of
houses it will be better to connect the
main pipes with the coils at the end near-
est the boiler, and then connecting the
coils at the farther end, bring the drip

back in a common return, than to run either an individual flow or return through each house. For 60° use eight 1 1/4-inch pipes and for 50° six 1 1/4-inch pipes in the houses seventeen feet wide and for the ten foot houses take five for 60° and four for 50°. L. R. TAFT.

A Small Heater.

ED. AM. FLORIST:—I have a house 15x25, with three three-foot benches, at present heated by a flue. I wish to use the house for propagating and want to run under the side benches three rows of 1-inch pipes and 1 1/2-inch overhead and two 1-inch pipes along the sides of the sill, or seven flows and eight returns. The house stands too far from the others to heat with the hot water plant. What kind of a heater would best answer the purpose? C. W. E.

There is but little choice in the heaters manufactured by the leading firms and any of them can supply what will be needed. As neither the kind of plants to be propagated nor the temperature desired are stated, it is not possible to tell what size will be needed. One rated for 300 square feet of radiation will probably answer. The arrangement of the pipes is not stated very clearly. It is evident that there are seven flows and eight returns, but eight rows of 1-inch pipe and one 1 1/2-inch are all that are located. I would suggest that the pipe used be either 1 1/2-inch or 2-inch, and if 60° is needed, in addition to the bottom heat, about sixteen of the former or twelve of the latter should be used.

L. R. TAFT.

A Question of Piping.

ED. AM. FLORIST:—We have almost completed two greenhouses and would like some directions regarding heating same. Houses are 15x48, running north and south; no wall between. Seven feet to gutter, with three feet four inches of glass in side; remainder of sides and north ends first ship-lap lumber on end and over this a layer of sheathing paper, then drop siding. All timbers are carefully plowed and grooved, and fitted together with white lead. Sides will be banked up about two feet. North ends will be protected by shed. A bench three feet wide runs along one side of each house, and across the ends of both, a space four inches wide being left between bench and wall; three benches five feet four inches by thirty-six feet fill remainder of space. The center one of these benches is beneath the gutter between the houses. We would like to pipe under outside benches and the middle one of the wide benches. Would like to use as small pipe as is suitable, as we think the temperature could be increased or decreased more quickly, the volume of water being so much less in proportion to radiating surface. Temperature seldom falls much below zero and we desire a night temperature of 60°. Please inform us as to the capacity of boiler required, how low it will have to be placed, and the number and manner of arranging pipes.

L. H. C.

If desired the pipe for the returns may be as small as 1 1/2-inch. I would recommend that six 2-inch pipes be run as flows under the middle bench and that three of these be carried across the south end of each house to the outer corner, where they should be connected with the coils. If 1 1/2-inch pipe is used nine will be required on the outer wall of each house. Better results will be secured,

however, with seven 2 inch pipes. The boiler should be one rated for 800 to 900 square feet of radiation and the top should be a foot or two below the surface. L. R. TAFT.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By young man in first-class retail store, ten years' experience. Good references. A L. care American Florist.

SITUATION WANTED—In first-class store, eight years' experience; good salesman and designer. Best of references. Address J. E. care American Florist.

SITUATION WANTED—By good worker and floral designer, in greenhouse or store, Chicago preferred; honest and steady. Address H. S. care American Florist.

SITUATION WANTED—By October 1st, by practical grower, decorator and designer, capable of taking full charge; thoroughly experienced in all branches. West preferred. A B C. care American Florist.

SITUATION WANTED—In store or greenhouses, good decorator and designer, 10 years' experience; age 27; good references. Please state wages in first letter. Address PANSY. care American Florist.

SITUATION WANTED—By good all-around florist; 18 years' experience. Specialty palms, ferns and pot plants in general; also cut flowers. Able to take charge. Address L. care Schiepan, 3455 State St., Chicago.

SITUATION WANTED—As working foreman and grower of roses, carnations, violets, mums and miscellaneous plants; 20 years' experience in England and 16 in United States; age 50; single; English. Disengaged September 18. Address GEO. H. MORRIS, Dunder Lake, Bergen Co., N. J.

SITUATION WANTED—By single German age 30, as vegetable gardener, competent to take charge or as helper to florist; temperate and industrious. Middle west preferred. Liberty September 30. Please state particulars in first letter. V G. care American Florist.

SITUATION WANTED—By middle-aged, single, temperate, Scandinavian, with good references; experienced florist, propagator, designer, landscape gardener; would prefer private place of some responsibility, Indiana, Illinois or lower Michigan. J. C. JENSEN, care Wm. Roethke Floral Co., Saginaw, Mich.

SITUATION WANTED—By a good, practical English gardener and florist, age 48, married, no family; over 25 years' experience in England and America; thoroughly understands growing carnations, roses, orchids, ferns, palms, all kinds of greenhouse plants, fruits, vegetables, etc.; 18 years good references from Messrs. J. Veitch & Sons, London, and have the best of references here. B. SILLEY, Parkersburg, Pa.

WANTED—At once, assistant rose grower and general greenhouse man. Address C. H. FREY, Lincoln, Neb.

WANTED—Competent storeman. Must be sober and reliable. References required. CENTRAL GREENHOUSES, Sandusky, O.

WANTED—First-class rose grower. Must show good references. A. L. RANDALL, 4 Washington St., Chicago.

WANTED—A young man who understands the care of palms and ferns. Address SMITH & PETERS 118 Euclid Ave., Cleveland, O.

WANTED—Experienced carnation grower. Steady employment and good wages to right party. J. D. THOMPSON CARNATION CO., Joliet, Ill.

WANTED—Good greenhouse hand. Wages \$20 per month with board. Steady work and increase of wages to the right man. Address W. L. SMITH, Aurora, Ill.

WANTED—Young man as assistant on place where good stock is grown. Moderate wages and a chance to learn. Address H. F. care American Florist.

WANTED—A good, steady, industrious man; must be good all-around grower and propagator. Married man preferred. Apply to Mrs. J. P. C. BURCH, Roswell, N. M.

WANTED—Man with practical experience in growing cut flowers and bedding plants. State age, experience and wages wanted. References required. Address B. American Florist.

WANTED AT ONCE—A good young florist with references, to grow cut flowers and plants; also one with less experience; state wages with board. WHEELING GREENHOUSE CO., Wheeling, W. Va.

WANTED—Good grower, retail place of 6,000 ft.; state wages expected with board, room and washing furnished; increase if capable. Reference with description wanted. Address JULIUS STEINHAUSER, Pillsbury, Kas.

WANTED—Night fireman, a permanent position and good wages to the right man. Must be strictly temperate and come well recommended from last place. THE E. C. HILL CO., Richmond, Ind.

WANTED—At the Sunny Woods Greenhouses (the birthplace of the Bridesmaid), another rose grower. Wages, \$40.00 per month. Address with references. FRANK L. MOORE, Chatham, New Jersey.

WANTED—Propagator of roses, carnations, etc., must be thoroughly first-class; no others need apply. Also a few growers of roses and carnations for sections. Good wages and steady work. LAKEVIEW ROSE GARDENS, Jamestown, N. Y.

WANTED—A working foreman to take charge of 22,000 square feet of glass, where first-class roses and carnations are grown, also one house of poinsettia; also one assistant. State age and wages expected, with board and washing. Apply to JOHN L. WYLAND, De Haven, Pa.

FOR SALE—Well established greenhouse business, 12,000 feet of glass; steam heat, 100 miles from Chicago. INDIANA, American Florist.

FOR SALE—Two hotwater boilers, 1 upright tubular 8 horse power boiler, \$40; 1 weathered cast iron boiler, \$35. Address L. L. PILLSBURY, Galesburg, Ill.

FOR SALE—A great bargain. 3 greenhouses, 6,000 ft. of glass, well stocked with carnations, mums, roses and general bedding stock, in a live growing town in Western Pennsylvania. Address BARGAIN, care American Florist.

FOR SALE—Five greenhouses, barn, shed and dwelling, 2 1/2 acres of land, town of 4,000 inhabitants; terms to suit buyer; or can be leased for long term; reason going to Europe. Inquire of JOSEPH CHARONNE, Deatur, Ill.

FOR RENT OR SALE—At Highlands, N. Y., three greenhouses 200 feet long, 2 1/2 span, propagating house 100 feet, large potting shed, dwelling and stable; city water; steam heat. Immediate possession. Apply to GEO. R. BRISTON, 206 Broadway, New York City.

For Sale Cheap.

One boiler 48-inch by 16 feet long, Morehead steam trap, steam pipes and fittings, 40 boxes 12x16 double strength glass, 100 boxes single strength glass, 50 boxes 12x14 single strength glass.

MRS. GEO. WALDBAUER, Saginaw, Mich.

For Rent or Sale Greenhouse

(about 7,000 feet of glass), dwelling and stable, Evanston, Ill., two blocks from C & N. W. station. Good established trade direct from greenhouse. Rent reasonable. Address

1127 CHURCH ST., EVANSTON, ILL.

If you want to get the want you want to get, you want to get your want ad into the

AMERICAN FLORIST

Try it now.

Every advertisement represents a genuine want. It pays to answer them.

September Weddings



Will need Lily of the Valley,
Wild Smilax and Decorating Material,
All kinds of Choice Roses,
Beauties especially.

Deamud Has Them.

J. B. Deamud, 51-53 Wabash Ave.
CHICAGO.

The F. R. WILLIAMS CO. WHOLESALE FLORISTS.

Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common
Ferns and Florists' Supplies.

Telephone Connections. **CLEVELAND, OHIO.**

McKELLAR & WINTERSON CO.

Supply Everything Used
by Florists, Nurserymen,
Gardeners, Seedsmen.....
Cemeteries, Parks, Etc.

HEADQUARTERS on CUT-FLOWERS
45-47-49 Wabash Ave.

Telephone Main 1129. **...CHICAGO**

Bassett & Washburn

76 & 78 Wabash Ave., CHICAGO.

Wholesale Dealers and
Growers of **Cut Flowers**
GREENHOUSES: HINSDALE, ILL.

Wanted

We wish to make arrangements with a few
First-Class Growers for regular consign-
ments of Cut Flowers, especially Roses and
Carnations. Can promise good returns.

TEXAS SEED & FLORAL CO.

Wholesale Commission Florists, Dallas, Tex.

Holton & Hunkel Co.

Wholesale Florists,

457 Milwaukee St., MILWAUKEE, WIS.

.....If you.....

Business Methods

are right you can make a profit
on an advertisement here.

Wholesale Flower Markets

MILWAUKEE, Sept. 4.

Roses, Beauty, long, per doz.	2.00
" " med	1.00@1.50
" " short	.50@ .75
" Liberty	6.00@ 8.00
" Bride, Bridesmaid	4.00
" Meteor	4.00
" Golden Gate	4.00
" Perle	2.00@ 4.00
Carnations	1.00@ 2.00
Asters	.50@ 1.00
Sweet peas	.15
Adiantum	.75@ 1.00
Smilax	12.00@15.00
Asparagus	65.00
Common ferns	.25

PITTSBURG, Sept. 4.

Roses, Beauty, specials	15.00@20.00
" " extras	10.00@12.00
" " No. 1	4.00@ 6.00
" " No. 2	2.00
" Bride, Bridesmaid	1.00@ 4.00
" Meteor	1.00@ 4.00
Carnations	.50@ 1.50
Asters	.25@ 1.50
Lily of the valley	2.00@ 3.00
Harrisii lilies	5.00@10.00
Gladioli	1.00@ 3.00
Smilax	12.00@15.00
Adiantum	.75@ 1.00
Asparagus	35.00@40.00

CINCINNATI, Sept. 4.

Roses, Beauty	10.00@20.00
" Bride	2.00@ 3.00
" Bridesmaid	2.00@ 3.00
" Meteor	2.0 @ 3.00
" La France	3.00@ 4.00
" Kaiseria	3.00
Carnations	.75@ 1.00
Asters	.50@ 1.50
Gladioli	3.00
Lilies, album and rubrum	4.00
Lily of the valley	4.00
Asparagus	50.00
Smilax	12.00@15.00
Adiantum	1.00
Common ferns	.15

ST. LOUIS, Sept. 4.

Roses, Beauty, medium stem	10.00@18.00
" Beauty, short stem	3.00@ 8.00
" Bride, Bridesmaid	2.00@ 5.00
" Golden Gate	2.00@ 5.00
Carnations	.75@ 1.50
Asters	.75@ 1.50
Gladioli, Tub-roses	3.0 @ 4.00
Lily of the valley	4.00
Smilax	12.50@15.00
Asparagus Sprengeri	1.50
" Pl mosus	.75@ 1.00

ALWAYS mention the AMERICAN FLO-
RIST when writing to advertisers.

E. H. Hunt,

WHOLESALE.....

Cut Flowers

THE "OLD RELIABLE,"

76 Wabash Ave., CHICAGO.

Poehlmann Bros. Co.

Wholesale Growers of

and Dealers in **Cut Flowers**

All telegraph and telephone orders
given prompt attention. 35-37
GREENHOUSES: Morton Grove, Ill. Randolph Street,
CHICAGO, ILL.

The Cincinnati Cut Flower Co.,

437-439 Main St. WHOLESALE FLORISTS.
CINCINNATI, O.

Consignments Solicited.
Special Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR
FANCY CUT FERNS.

Michigan Cut Flower Exchange.

Fancy fresh cut Ferns, \$1.00 per 1000.
Discount on large orders. Give us a
trial for Ferns the year around.
BRONZE GALAX, \$1.00 per thousand.

28 Miami Ave., DETROIT, MICH.

H. G. BERNING Wholesale Florist

1322 Pine St., ST. LOUIS, MO.

Frank M. Ellis, WHOLESALE FLORIST,

1316 Pine Street, ST. LOUIS, MO.

CONSIGNMENTS SOLICITED.

C. A. KUEHN, Wholesale Florist, 1122 PINE STREET, ST. LOUIS, MO.

A complete line of Wire Designs.

Pittsburg Cut Flower Co., Ltd WHOLESALE FLORISTS,

Pittsburg, Pa.

RICE BROTHERS WHOLESALE FLORISTS and FLORAL SUPPLIES.

Receivers and Shippers of Fresh Cut Flowers.
Special attention to shipping orders. A com-
plete line of Florists' needs. Send for price list.
Prompt returns on all consignments.

128 N. Sixth St. MINNEAPOLIS, MINN.

Please mention the American Florist when writing.

Beauties are unusually good for so early in the season and exceptional value at current rates. We have enough for all.

Tea Roses Crops are increasing in quantity and improving in quality. Brides, Maids and Kaiserins are best.

Carnations It is remarkable the way the supply has increased and qualities improved in the last two weeks. Enough for all.

Greens Smilax, Asparagus Plumosus and Sprengerii are items which are in steady, all-season demand and we have arrangements which insure a practically inexhaustible supply. Let us have your orders.

Wild Smilax We are now ready to supply Wild Smilax for all requirements but as it is yet early to carry it in stock we must have three days' notice. Write or wire.

SEND FOR OUR PRICE LIST, ISSUED WEEKLY.

E. C. AMLING,

32-36 Randolph St.

L. Dis. Phones 1977 and 1999 Central.

The Largest, Best Equipped and Most Centrally Located Wholesale Cut Flower House in Chicago. Chicago, Ill.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

KENNICOTT BROS. CO.

Wholesale Cut Flowers and Florists' Supplies.

42-44 Randolph St., CHICAGO.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Avenue, CHICAGO.

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.

600,000 FEET OF GLASS.

Headquarters for American Beauty.

51 Wabash Ave., CHICAGO, ILL.

FRANK GARLAND,

Wholesale Grower of **Cut Flowers**

SPECIAL ATTENTION GIVEN TO HARDY CUT **FERNS**
55-57 WABASH AVENUE,
CHICAGO. Telephone Central 3284

It is good business policy to mention the

American Florist

When you write to an advertiser.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty

WHOLESALE GROWER of

CUT FLOWERS

Wholesale Flower Markets

CHICAGO, Sept. 5.

Roses, Beauty, 24-inch stems	2.00
" " 20 " "	1.50
" " 15 " "	1.00
" " 12 " "	.75
" " 6 to 8 " " per 100	4.00@ 5.00
" Bride, Bridesmaid.....	2.00@ 5.00
" Meteor.....	2.00@ 5.00
" Perle.....	2.00@ 4.00
" Golden Gate.....	2.00@ 4.00
Carnations.....	1.00@ 2.00
Asters.....	1.00@ 2.00
Gladioli.....	2.00@ 3.00
Lily of the valley.....	4.00
Auratum, per doz., 1.00@ 1.25	
Tuberose.....	3.00@ 6.00
Asparagus, per string, .50	
Ad antum.....	.75@ 1.00
Common ferns, per 1000, 1.00	.15
Galax leaves, per 1000, 1.25	.15
Smilax, per dozen, 1.25@ 1.50	

Bentley & Co.

F. F. BENTLEY, Manager,

Wholesale Commission Florists

31-35 Randolph St., CHICAGO.

Consignments solicited.....

LILY OF THE VALLEY.

Extra fine cut Valley every day in the year. Fine cold storage pips. \$1.50 per 100; \$13.00 per 1000.

H. N. BRUNS,

1409-1411 W. Madison St., CHICAGO.

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO

Send for weekly price list and special quotations on 1000 lots.

JOHN MUNO,

Wholesale Grower and Shipper of **Cut Flowers**

Room 221, 51 Wabash Ave., CHICAGO.

TELEPHONE CENTRAL 3598. All telegraph and telephone orders given prompt attention.

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GEO. REINBERG,

Wholesale Grower of **Cut Flowers**

Choise American Beauties.

We will take care of your orders at reasonable prices. Prompt attention.

51 Wabash Ave., CHICAGO, ILL.

Please mention the American Florist when writing.

Chicago Carnation Co.

Joliet, Illinois.

Select VALLEY

SAMUEL S. PENNOCK,
Wholesale Florist,

Commencing September 1st will be open from 7:30 A. M. to 6:00 P. M., Saturdays included.

IN QUANTITY.

1612-18 LUDLOW ST., PHILADELPHIA, PA.

GEO. A. SUTHERLAND,
34 Hawley St., BOSTON.

Telephone 1270 Main.

BEST BOSTON FLOWERS. All Supplies.
An entire floor Devoted to Stock and Manufacturing. Distributing Agent for United States for the wonderful



LETTER, unequalled for design work. Script, any color, 3/4c a letter. Block letters, 1 1/2c each. The most elaborate design work to order in a few minutes.

GENERAL AGENTS:

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REED & KELLER, New York City.

A FULL STOCK OF
SEASONABLE FLOWERS.

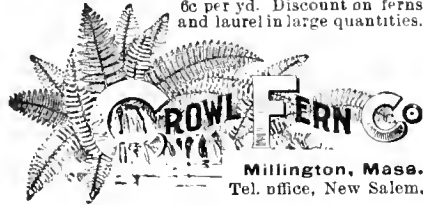
CITY HALL CUT FLOWER MARKET

WELCH BROS., PROPS.

9 CHAPMAN PLACE, Boston, Mass.
15 PROVINCE STREET.

FANCY OR DAGGER FERNS
FIRST QUALITY 50 CENTS PER 1000.
BRONZE OR GREEN GALAX \$1.00 PER 1000.

LAUREL FESTOONING, just the thing for summer decorations, only 4, 5 and 6c per yd. Discount on ferns and laurel in large quantities.



Please mention the American Florist when writing.

GALAX Bronze or green, 75c per 1000, in 2 00 lots or over; single 1003, \$1.00. Fern, Fancy, \$2.50 per 1000; Fern, Dagger, \$1 50 per 1000. Leucothoe Sprays, bronze and green, assorted sizes, \$1 per 100. Green sheet moss, \$2.50 per bbl. bag.

L. J. KRESHOVER,
110-112 W. 27th Street, NEW YORK CITY.
Telephone call, 597 Madison Square.
HARRY A. BUNYARD, Mgr.
Please mention the American Florist when writing.

HARDY Cut Dagger and Fancy Ferns, A No. 1 quality \$1 per 1000.
Brilliant Bronze and Green Galax, \$1 per 1000, in 5,000 lots.
Laurel Festooning, 4, 5 and 6c per yard. Orders by mail, telephone or telegraph promptly attended to. Discount on large orders. L. D. telephone 2618 Main.

HENRY M. ROBINSON & CO., 32-36 Court Sq., Boston.

Galax AND Leucothoes.

Selected, Bright and Brilliant.
Wholesale Trade Solicited.....

J. L. BANNER & CO., Montezuma, N. C.

SHIPPING LABELS FOR

...Cut Flowers

Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples.....

ELECTRO OF THIS LEAF, POSTPAID, \$1.25.

American Florist Co.,

CHICAGO.

Cut Gladiolus Spikes

of the HIGHEST QUALITY, in lots of from 100 to 100,000. Pink, scarlet, crimson, white, light, yellow, blue, lavender and heliotrope; in fact, almost every shade imaginable.

Write for prices and particulars, stating your requirements.

ARTHUR COWEE, "Meadowvale Farm," Long Dist. Phone, BERLIN, N. Y.
U. S. Representative and Grower of GROFF'S HYBRIDS.

Watch this space for bulb advertisement later.

Wholesale Flower Markets

Boston, Sept. 3.

Roses, Beauty, extra.....	10.00@18.00
" " medium.....	5.00@ 8.00
" " culls.....	.50@ 2.00
" Bride, Bridesmaid, Meteor.....	.75@ 2.00
" extra.....	4.00@ 6.00
" Kaiserin, Carnot.....	3.00@ 5.00
Sweet peas.....	.15@ .20
Carnations.....	.50@ 1.50
Asters.....	.15@ .50
Gladioli Shakespeare.....	2.00@ 4.00
Lily of the valley.....	2.00@ 4.00
Lilies, Harrisii.....	3.00@ 5.00
" Japan.....	2.00@ 3.00
Adiantum.....	.75@ 1.00
Asparagus.....	50.00
Smilax.....	12.50@18.00

PHILADELPHIA, Sept. 3.

Roses, Tea.....	2.00@ 4.00
" " extra.....	4.00@ 6.00
" Beauty, extra.....	15.00@ 20.00
" " firsts.....	8.00@12.00
" Queen of Edgely, extra.....	20.00@25.00
" " firsts.....	10.00@15.00
Carnations.....	.50@ 1.50
Lily of the valley.....	3.00@ 4.00
Asparagus.....	15.00@35.00
Smilax.....	10.00@15.00

BUFFALO, Sept. 4.

Roses, Beauty.....	6.00@25.00
" " Bride, Bridesmaid, Meteor.....	3.00@ 6.00
Carnations.....	1.50@ 2.00
Sweet peas.....	.10@ .35
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50

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Roses, Carnations and all kinds of Seasonable Flowers in stock.

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Dealer in Florists' Supplies and Wire Designs.
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WHOLESALE FLORISTS,
Daily Reports. Weekly Payments.
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Fair dealing and prompt returns guaranteed.
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Buy and Sell... FLOWERS on Close Margin.
Headquarters, 56 West 26th Street,
WRITE, Opposite Cut Flower Exchange,
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Best Quality CUT FLOWERS and Supplies,
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Open for Cut Flower Sales at 6 o'clock Every Morning.....
DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

THE AMERICAN FLORIST'S COLOR CHART

PRICE 15 CENTS POSTPAID.
AMERICAN FLORIST CO., Dearborn St., Chicago, Ill

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YOUNG & NUGENT

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Are supplying the most superb stock of SUMMER FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii. SEND FOR QUOTATIONS.

Walter F. Sheridan, Wholesale Florist,

Telephone 902 Madison Square.

39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square.



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RECEIVER AND SHIPPER OF FRESH CUT FLOWERS. DAILY STOCK OF ALL THE CHOICEST VARIETIES FROM BEST GROWERS WHO SHIP TO NEW YORK.

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Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.

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Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

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Open from 6 a. m. to 5. p. m.

Cut Flower Exchange, 55-57 W. 26th St. Phone 299 Madison Square. NEW YORK.

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Solicits Consignments or Shipping Orders. Satisfaction given in both.

Write for Terms. 116 West 30th St., New York.

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Traendly & Schenck

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Wholesale Flower Markets

NEW YORK, Sept. 3.

Roses, Beauty, select.....	12.00@20.00
" " medium.....	5.00@12.00
" culla.....	.50@ 2.00
" Bride, Bridesmaid.....	.25@ 5.00
" Liberty, Meteor.....	1.00@ 5.00
" Testout, Kaiserin, Carnot	1.00@ 6.00
Carnations.....	.25@ 1.00
Lily of the valley.....	1.00@ 3.00
Lilies.....	3.00@ 5.00
Asters, per 100 bunches	1.00@3 00
" sprays.....	.25@ .75
Sweet peas, per 100 bunches,	1 00@2.00
Cattleyas.....	25.00@60.00
Smilax.....	4.00@ 8.00
Adiantum.....	.50
Asparagus.....	35.00@50.00
" Sprenger, doz. bun.	2.00@3 00

RELIABLE AT ALL SEASONS.

Best Flowers.

REASONABLE PRICES.

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Telephone 167 Madison Square.
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A full supply daily of the choicest New York and New Jersey

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BEST FLOWERS SHIPPED AT LOWEST NEW YORK PRICES.

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...GEO. M. KELLOGG...

Largest Grower of... Cut Flowers in the West.

Give us an order and we will please you.
Our Greenhouses at PLEASANT HILL, MO.
Our Store, 906 Grand Ave., KANSAS CITY, MO
LONG DISTANCE PHONE AT EITHER PLACE.

EDW. C. HORAN,

47 WEST 28TH ST.,
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CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.
WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

VISITED CHICAGO: F. C. Stephens, of Bermuda.

A. H. GOODWIN, of Chicago, is on an eastern trip.

CONNECTICUT growers are fairly satisfied with their onion seed crop.

ONION sets, yellow, are selling in Louisville at \$1.50 per 100 pounds. Local dealers there are reported to be storing freely.

C. P. BRASLAN wires, September 2, that onion seed is turning out thirty per cent lighter than was anticipated by growers four weeks ago.

THE outlook for tuberose bulbs, while improved by some rain in August, would indicate that the sizes of the bulk of the crop will be below the average and that the regular grade 4 to 6-inch bulbs will contain more 4 to 5 bulbs than of 5 to 6 size. Of the extra large 6 to 8-inch bulbs but few if any can be expected.

J. M. McCULLOUGH'S SONS, of Cincinnati, have made extensive additions to and changes in their warehouse fronting on the river. The railroad cars may now be loaded and unloaded in the building, under cover, and many other alterations have been made which will afford greatly improved facilities for the handling of the specialties of this house.

Pearl Tuberoses in Italy.

I wish to ask you a question that you will please answer if you can through your columns: Among our tuberose we grow few of the Pearl—only a few, because while it grows just as well and strong as the others, and makes nicer spikes, when the opening time comes the flowers go to sleep as fast as they open, in fact just before opening, and for that fault the variety is absolutely useless. We have tried every known way to overcome this defect. The soil is sandy, abundantly irrigated and richly fed, but the flowers fail to open as well as those of the old double variety. We are very mad about it, because the Pearl is much more dwarf and makes a better spike than the old variety. Water is not lacking, so the trouble must be somewhere else.

Could you kindly tell us what your American growers give their tuberose to make them bloom so well and also how the eastern growers succeed in forcing them?

PETER CROVETTO.

Cupid Sweet Peas.

Fred. Roemer, of Quedlinburg, says the British Horticultural Advertiser sent us notes on this subject last February, to which we referred in our succeeding issue. His contention was that the comparative failures commonly reported with this section, were owing to the seed having been grown in the dry climate of California, and that far better results were obtained from seeds saved two or three years in succession in Germany.

He kindly sent to us for trial some half dozen varieties which we tested beside ordinary commercial samples. The result, to a certain extent, justifies Mr. Roemer's contention; though from some unexplained cause the white failed absolutely; the others were good, especially Pink Cupid, which was much superior to

other samples sown side by side, also Beauty, which was the most attractive of all, vigorous, free and effective.

The Onion Crop.

The onion crop of the United States in 1899, according to the reports of the twelfth census, amounted to 11,790,974 bushels; the area harvested was 47,981 acres, and the total value of the crop on the farm amounted to \$6,637,413. The following table shows the states in which 500 acres or over were planted, the six states devoting greatest acreage to this crop being indicated by asterisks:

States.	Acres.	Bushels.	Value.
Massachusetts.....	1,670	748,309	\$ 332,353
Connecticut.....	1,206	422,591	230,815
*New York.....	6,033	2,177,271	1,066,042
New Jersey.....	882	163,778	1 53 7
Pennsylvania.....	1,505	347,806	216,436
Maryland.....	541	62,689	38,578
Virginia.....	1,717	205,869	143,299
North Carolina.....	836	116,341	86,597
Louisiana.....	1,655	152,083	106,426
Texas.....	1,639	187,720	150,675
Tennessee.....	1,124	117,679	106,421
West Virginia.....	674	136,423	107,547
Kentucky.....	1,705	3 5,113	237,694
*Ohio.....	5,067	1,671,442	826,212
*Michigan.....	2,611	783,948	345,310
*Indiana.....	2,105	505,110	269,687
*Illinois.....	2,563	546,681	24,755
Wisconsin.....	1,230	34,662	184,310
Minnesota.....	923	235,564	130,494
Iowa.....	1,195	292,097	177,088
Missouri.....	1,383	259,272	155,877
Kansas.....	864	143,832	89,261
Colorado.....	774	205,841	125,713
Oregon.....	851	208,562	167,175
*California.....	2,267	514,859	296,671
	42,840	10,872,332	\$5,947,373

A Tomato Trust.

The American Packers' Association, says an agricultural contemporary which is usually well informed, has just had recorded a million dollar mortgage in courts of Maryland counties where it has acquired canning properties. It has liens also on properties in Delaware, Pennsylvania and New Jersey, and is in condition to control the market. Its object is to aid country canners, who generally operate on borrowed capital, reduce expenses in purchase of cans, solder and machinery, and prevent gluts in the

market. The canning season will soon open. Owing to high prices of canned goods early in the year, farmers everywhere planted tomatoes, and the acreage is larger than ever before known. The old rate of \$5 a ton has been advanced to \$7 and \$8, and even at these figures a large acreage is uncovered by contracts.

ST. CLOUD, MINN.—P. H. Anderson has planted 1,500 carnations, 1,500 chrysanthemums and 1,200 roses and a bunch of violets at the Campbell Greenhouses, which he recently purchased.

ESTABLISHED 1802

THORBURN'S SEEDS

FREESIAS, CALLAS, LILIUM HARRISII, ETC., ETC.

If our trade bulb list has not been received, we shall be glad to send it on application.

J. M. THORBURN & CO.
(Late of 15 John Street)
36 CORTLANDT STREET, NEW YORK

BURPEE'S SEEDS
PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.

Lilium Harrisii.

We have a splendid lot of late dug bulbs that have just arrived. On account of late digging bulbs are splendidly ripened and are unusually fine. The season has been very favorable, and it is a long time since we have been able to offer such fine stock. Bulbs are plump and hard, and that bright golden yellow color which denotes a well ripened and healthy bulb. Bulbs run unusually large and are in the best possible condition. We offer them as long as unsold as follows: 6 to 7-inch bulbs, \$17.50 per case of 350 bulbs; in less quantities, \$6.00 per 100. 7 to 9-inch bulbs, \$ 0.10 per case of 200 bulbs; in less quantities, \$11.00 per 100. 9 to 11-inch bulbs, \$20.00 per case of 100 bulbs; in less quantities, \$22.00 per 100.

We also have a fine lot of **BERMUDA-GROWN LONGIFLORUM**

Late dug bulbs, shipped by last Bermuda Steamer, which arrived this week. This is an extra fine lot of selected bulbs. 7 to 9-inch bulbs, \$20.00 per case of 200 bulbs; in less quantities, \$11.00 per 100.

CALLAS.

We have a grand stock of these splendidly ripened bulbs ready for immediate shipment.

Extra quality bulbs, 1 1/4 to 1 1/2 inches diameter.....	\$5.00 per 100	\$46.00 per 1000
Selected bulbs, 1 1/2 to 1 3/4 inches diameter.....	6.00 per 100	60.00 per 1000
Mamma h bulbs, 1 3/4 to 2 inches diameter.....	8.00 per 100	76.00 per 1000
Exhibition bulbs, 2 to 3 inches diameter.....	10.00 per 100	

We can also ship immediately on receipt of order the following.

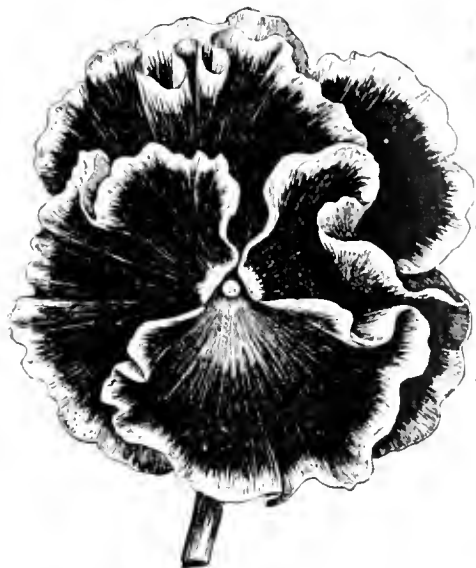
WHITE ROMAN HYACINTHS Finest quality bulbs, 12 to 15 cm. circumference, \$3.00 per 100; \$26.00 per 1000.

NARCISSUS PAPER WHITE GRANDIFLORA \$1.00 per 100; \$9.00 per 1000.

BERMUDA BUTTERCUP OXALIS 75c per 100; \$6.00 per 1000.

FREESIAS Selected bulbs, 1/2-inch and up in diameter, 75c per 100; \$6.00 per 1000.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.



MASTERPIECE.

MIGNONETTE, TRUE MACHET. Trade pkt., 10c; ½ oz., 25c; oz., 50c; 2 ozs., 75c; ¼ lb., \$1.25.
CALCEOLARIA HYBRIDA, choicest mixture, pkt. 50c.

10 PER CENT discount on flower seed orders amounting to \$2.00 and over for Cash with order.

PANSIES

VAUGHAN'S "INTERNATIONAL"

Received the only reward for Mixed Pansies at the World's Fair. It is to-day better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture in existence, as all the florists who saw or used it can tell you. Price per oz., \$10.00; ½ oz., \$5.00; ¼ oz., \$1.50; trade pkt., 50c.

VAUGHAN'S "GIANT MIXTURE."

This mixture is specially made by us from all the separate colors of Giant Tricolor, the Giant Bugnot and Cassier and several special strains which cannot be had any other way. If your trade demands large flowers there is no better mixture. Price, ¼ lb., \$14; oz., \$4; ½ oz., 60c; td. pkt., 25c.

MASTERPIECE--New Giant Curled.

This strain comes nearer to "Double Pansies" than anything ever introduced under that name. In reality the number of petals is the same as that in other Pansy flowers, but they are crimped and curled in such a fashion that the flowers appear double. The flowers are of enormous size, often 3 inches across, and the color variations and combinations are odd and striking. Pkt., 50c; ½ oz., \$1.00.

"Vaughan's International" Primrose Mixture. Unquestionably the best mixture of largest variety of the best selling colors. Flowers large, beautifully fringed, borne in large clusters well above the rich green leaves. Pkt. (25) seeds) 50c; 5 pkts. (1250 seeds) \$2.00.

Cineraria VAUGHAN'S COLUMBIAN MIXTURE. A mixture of the best English and German strains, unsurpassed. Pkt. (1000 seeds) 50c; 3 pkts. \$1.25.
Cineraria HYBRIDA, large flowering, white, blood-red or crimson, double white or best double mixed each, per trade pkt., 50c.

VAUGHAN'S SEED STORE, 14 Barclay Street, New York. 84-86 Randolph St., Chicago.

Please mention the American Florist when writing.

H. Wrede, LUNEBURG, GERMANY
PANSY SEED,
 155 First Prizes, the highest awards Chicago, Hamburg 97, Paris 1900, 1000 Seeds, finest mixed, 25c. 1 oz. " " " \$2.25

Price List on application. Cash with order.

PANSY SEED. The Jennings Strain

of High Grade Pansy Seed now ready. Stock this season is the finest I have ever grown. Finest mixed, \$1 per pkt.; \$3 per ½ oz.; \$5 per oz. Separate colors in red, white, blue, black and yellow, 50c per pkt. Pansy plants ready Sept. 1. Cash.
E. B. JENNINGS, Lock Box 254, Southport, Conn.
 Grower of the Finest Pansies.

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FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packets at \$1.00 each.

M. B. FAXON,

Lock Box 1528, BOSTON, MASS.
 Correspondence solicited.

10,000 Lady CAMPBELL Violets

For Sale—Fine healthy plants, \$1.00 per 100. Sample sent if desired.

E. WOOD, Lexington, Mass.

Please mention the American Florist when writing.

VIOLETS.

Large field-grown clumps, L. H. Campbell, Imperial, Princess of Wales and California, \$5.00 per 100; \$4.00 per 1000.

Christmas Pepper, 3¼-inch, ready for 6-inch, \$3.00 per 100.

Parsley, large field-grown clumps, 40c per 100; \$2.50 per 1000.

Smilax, 3¼-inch, large bushy plants, \$1 per 100.

J. C. SCHMIDT, BRISTOL, PA.

ALWAYS MENTION THE.....

.....AMERICAN FLORIST

WHEN WRITING ADVERTISERS.

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WHOLESALE GROWERS AND DEALERS IN

Garden Seeds

SPECIALTIES:

**ONION, Southport Globes,
 Turnip Seed and Sweet Corn, also
 Beet, Parsnip, Carrot, Cabbage.**

With an experience of thirty-five years in selling and labeling our crops as **STRICTLY NEW ENGLAND GROWN**, the Seedsman can answer all questions without flinching when asked by the market gardener where the seeds were grown.

The Everett B. Clark Co., Milford, Conn.

MARIE LOUISE VIOLETS

CLEAN HEALTHY PLANTS,
 \$2.00 per 100; \$20.00 per 1000.

JOHN B RUDY, ELMIRA, N. Y.

Princess of Wales and Lady Campbell

VIOLET PLANTS.

Strong field-grown clumps from sand struck Cuttings Ready September 1, \$5.00 per 100; \$40.00 per 1000; Samples 10 cents.

The Albert H. Brown Co., Westboro, Mass.

GRAND RAPIDS VIOLETS

Field-grown Lady Campbell and Swanley White at \$4.00 per 100 \$35.00 per 1000. Sample 10c. Cash with order.

ELI CROSS, GRAND RAPIDS, MICH.

Violets

MARIE LOUISE specially grown for forcing. These are from cold frame, free from disease and insects, and are in first-class condition for planting during August. Per 100, \$3.50; per 1000, \$30.00.

W. H. THOMAS,

Convent Station, Morris Co., N. J.

Please mention the American Florist when writing

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSEYMEN.

CHAS. A. LOENFRITZ, PRes.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

THE Illinois State Horticultural Society will hold its annual meeting at Champaign, December 17 to 19. Plans are being made for a large fruit exhibit.

FRANK N. DOWNER, of Bowling Green, Ky., has been sued for \$5,000 by parties who say Downer wrongfully and damagingly accused them of stealing plants from his nursery.

OLMSTED BROS., of Brookline, Mass., have recently taken orders for plans for the landscape work on several private estates not far from Chicago and for the extensive work contemplated at the University of Chicago.

SWAIN NELSON & SONS, Chicago, are doing the plans for the park work at Des Moines and at the several public institutions of Iowa where the grounds are being improved. They have also recently booked the contract for the plans for and supervision of the park work to be done at Cedar Rapids.

Cleveland.

INTERESTING JOTTINGS OF DOINGS OF THE GROWERS.—GOOD STOCK EVERYWHERE IN EVIDENCE.—A CRAFTSMAN INJURED.

One always finds something interesting by taking a trip among the East End growers at this season of the year. At James Eadie's place carnation planting is being pushed rapidly to a finish. His plants are in superb condition. Especially fine were a batch of Lawsons, equal if not superior to the famous Cincinnati brand. Several new varieties are being given their first trial. Mr. Eadie, in common with the majority of Cleveland growers, is careful about handling new kinds in large quantities, but more of the Lawson type is what we are after.

F. R. Williams was recently thrown from his wagon and dragged quite a distance, sustaining injuries which will keep him confined for some time. Planting is completed at his place and the stock in the new houses erected this year is looking fine, especially two houses of Meteor, which are exceptionally good. These houses were planted in July and they are now cutting flowers with stems from twelve to twenty-four inches in length. The carnation plants suffered a good deal from too much rain and are not as large as might otherwise be.

James Wilson is adding more glass to his plant. Three new houses 120 feet long are in course of construction. These will be for ferns, violets and carnations. Mr. Wilson has given up rose growing altogether and his entire place, except the violet and fern houses, will be given to carnations. His plants equal in size and health those of Eadie. All surplus stock of carnations is potted up and kept in a cold frame over winter and planted out the following spring for summer bloom. In this way a succession of bloom is obtained the year around.

August Schmidt has his building almost complete and a model plant it is, always scrupulously clean and neat. Stock never looked better. He is growing Begonia Gloire de Lorraine outside in a frame in a mild hotbed, with evident success. This method of growing Lorraine seems to be gaining in favor in this section.

Mr. Smith, of Smith & Fetters, has returned from a month's sojourn among

friends in the east, looking well and hearty. We are happy to learn that Mr. Fetters is improving rapidly in health in his western home. His ultimate recovery is looked for.

Miss Mae Evans, of the J. M. Gasser Company, was united in marriage on September 4 to Bert. W. Collier. The bride is very popular with the trade and was the recipient of a number of handsome presents from her friends.

J. W. Ahern, of Mt. Vernon, O., was a recent visitor in town. Ecto.

LYNN, MASS.—Mrs. Geo. E. Libbey and Mrs. Henry Young have formed a co-partnership as florists and have opened a fine store at 84 Silsbee street.

Providence, R. I.

All florists look alike when the dull season comes on, and they certainly have worn an anxious expression the past ten days. There has been scarcely any semblance of business, not even a fair portion of funeral work. The growers are grumbling about coal, but the wise ones are predicting a settlement or adjustment of industrial conditions shortly, and a probable lowering of price and satisfactory supply. When the Rhode Island Briquette Coal Company begins operations in another year, coal strikes may not have much special significance to local consumers.

M. M.

B. & A. SPECIALTIES

ENGLISH MANETTI.....\$12.00 per 1000
FRENCH MANETTI.....\$10.00 per 1000

ASK FOR FALL CATALOGUE NOW READY.

BOBBINK & ATKINS, Rutherford, N. J.

Strawberry Plants.

FROM POTS. Well established young plants of Clyde and Wadfield, (both immense croppers), for planting now and in August. Warranted to produce a full crop of the finest berries next spring. Price 50c per doz.; \$3.00 per 100. P. S.—100 planted now will give an ordinary family all they can use.

F. A. BALLER, BLOOMINGTON, ILL.

Look at This.

The largest and finest standards of Hydrangea Paniculata Grandiflora in the country at reasonable rates. Several standards of Forsythias and Weeping Lilacs, all in true tree form and carefully staked. Immense blocks of Spiraea Anthony Waterer, S. trilobata, Viburnum tomentosum and all the fine shrubs on the market.

HOOPES BRO. & THOMAS, Maple Ave. Nurseries, WEST CHESTER, PA.

NEW FRUITS.

	100	1000
Golden Mayberry, stroog transplants,	\$4.00	
Iceburg Blackberry, "	4.00	
Rathbun Blackberry "	3.00	25.00
Cumberland Raspberry, "	3.50	30.00

The Conard & Jones Co, West Grove, Pa.

B. W. DIRKEN,

Oudenbosch, Holland.

ORNAMENTAL AND FOREST TREES A SPECIALTY.

Conifers, Evergreens, Hollies, Etc. Prices on Application.

THE Gardeners' Chronicle.

A Weekly Illustrated Journal.

ESTABLISHED 1841.

THE GARDENERS' CHRONICLE has been FOR OVER SIXTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, the information furnished is of such general and permanent value that the GARDENERS' CHRONICLE is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, \$1.20 per year. Remittances to be made payable to H. G. LOVE.

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41 Wellington St., Covent Garden, London, England.

Park Architects and Dealers

will find whatever they want in the

Holland Nurseries, DeBilt near Utrecht HOLLAND.

SPECIALTIES ARE: Conifers, Evergreens, Hardy Shrubs, Lilacs, Ornamental Trees, Fruit Trees in different forms, Azaleas, Rhododendron Ponticum and Hybridum.

Please send list of your wants and write for general catalogue. We will make you special offers. Write to

GROENEWEGEN & ZONN, De Bilt, near Utrecht, Holland.

50,000

AZALEA AMOENA

\$12.50 per 100, \$100.00 per 1000.

10,000 AMPELOPSIS VEITCHI AND WISTARIA SINENSIS, \$1.00 per 100; \$25.00 per 1000.

YUCCA FILAMENTOSA, \$1.50 per 100; \$10.00 per 1000.

Send for trade list of seedlings and ornamental stock.

SAMUEL C. MOON, Morrisville, Pa.

MANETTI
ROSE STOCKS, English grown, especially graded for Florists' grafting. Write for prices. Headquarters for RAFFIA WHOLESALE DEPT. Thomas Meehan & Sons, Inc., Dreshertown, Pa.

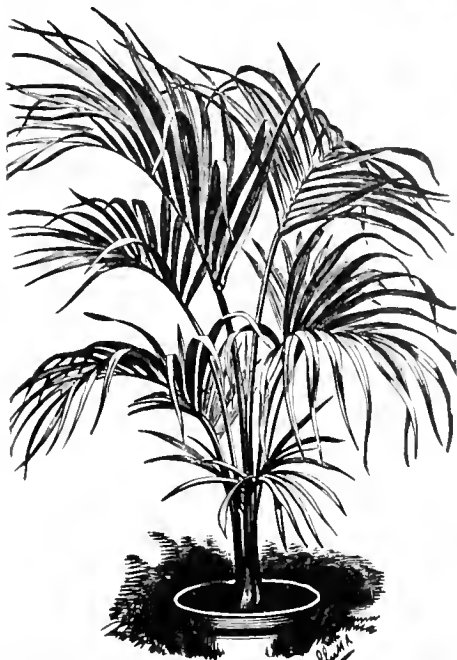
RAFFIA NATURAL COLORED
VAUGHAN'S SEED STORE,
CHICAGO and NEW YORK.

LAUREL HILL Nurseries, F. BRUNTON Manager.

Importers and growers of Choice Hardy Perennials. Native Trees, Shrubs, Specimen Evergreens. We grow large quantities of Iris, Paeonias, Tritomas, Phlox, Delphiniums; stock is perfectly hardy, true to name. Send for Special Catalogue of New Hardy Alpine Iris, now in the press. STOCKBRIDGE, MASS., U. S. A.

DREER'S PALMS.

Now is the time to secure your supply of Palms for the coming season's trade. All the varieties and sizes here offered are in excellent condition and of good value.



KENTIA.

ARECA LUTESCENS.

2-inch pots, 8 to 10 in. high, 1 plant in pot.....	Doz.	100
3-inch pots, 10 to 12 in. high, 2 plants in pot.....	\$.75	\$ 6.00
4-inch pots, 15 to 18 in. high, 3 plants in pot.....	1.00	8.00
5-inch pots, 18 in. high, 3 plants in pot.....	2.50	20.00
6-inch pots, 24 to 26 in. high, 5 to 6 plants in pot.....	5.00	40.00
6-inch pots, 28 to 30 in. high.....	9.00	75.00
8-inch pots, 30 to 36 in. high, 3 plants in pot.....	12.00	100.00
10-inch pots, 42 to 45 in. high, 3 plants in pot.....	Each	Doz.
	\$3.00	\$36.00
	5.00	63.00

COCOS WEDDELIANA.

A good lot of 3-inch pots, 10 to 12 inches high, \$2.00 per dozen; \$15.00 per 100.

KENTIA BELMOREANA.

2 1/4-inch pots, 4 leaves, 8 to 10 in. high.....	Doz.	100	1000
3-inch pots, 5 leaves, 12 to 15 in. high.....	\$1.50	\$12.00	\$100.00
4-inch pots, 5 to 6 leaves, 15 to 18 in. high.....	2.50	20.00	180.00
5-inch pots, 6 leaves, 18 to 20 in. high.....	4.50	35.00	300.00
6-inch pots, 6 to 7 leaves, 18 to 20 in. high.....	7.50	60.00	
6-inch pots, 6 to 7 leaves, 24 in. high.....	9.00	75.00	
6-inch pots, 6 leaves, 24 to 28 in. high.....	Each.	Doz.	
6-inch pots, 6 leaves, 28 to 30 in. high.....	\$1.00	\$12.00	
6-inch pots, 6 leaves, 30 to 36 in. high.....	1.25	15.00	
7-inch pots, 6 to 7 leaves, 30 to 32 in. high.....	1.50	18.00	
8-inch pots, 6 to 7 leaves, 36 to 42 in. high.....	2.00	24.00	
	2.50	30.00	

KENTIA FORSTERIANA.

2 1/4-inch pots, 4 leaves 8 to 10 in. high.....	Doz.	100	1000
3-inch pots, 5 leaves, 12 to 15 in. high.....	\$1.50	\$12.00	\$100.00
4-inch pots, 5 to 6 leaves, 15 to 18 in. high.....	2.50	20.00	180.00
4-inch pots, 5 to 6 leaves, 15 to 18 in. high.....	4.50	35.00	300.00
6-inch pots, 5 to 6 leaves, 24 to 26 in. high.....	Each.	Doz.	
6-inch pots, 5 to 6 leaves, 30 in. high.....	\$1.00	\$12.00	
6-inch pots, 5 to 6 leaves, 30 to 36 in. high.....	1.25	15.00	
7-inch pots, 6 leaves, 30 to 36 in. high.....	1.50	18.00	
8-inch pots, 6 leaves, 42 in. high.....	2.00	24.00	
8-inch pots, 6 leaves, 42 to 48 in. high.....	2.50	30.00	
8-inch pots, 6 leaves, 48 in. high.....	3.50	42.00	
9-inch pots, 6 to 7 leaves, 5 feet in height.....	4.00	48.00	
	7.50		

PHOENIX RECLINATA.

2-inch pots.....	Doz.	100
3-inch pots.....	\$.75	\$ 6.00
4-inch pots.....	1.25	10.00
	3.00	25.00

PHOENIX RUPICOLA.

2-inch pots.....	Doz.	100
3-inch pots.....	\$1.00	\$ 8.00
4-inch pots.....	1.50	12.00
	4.00	30.00

PTYCHOSPERMA ALEXANDRAE.

A fine lot of strong 5-inch pots of exceptional value 24 inches high \$3.00 per dozen; \$25.00 per 100.

THE PIERSON FERN, (Nephrolepis Piersoni).

We are now booking orders for spring delivery of this, the most valuable fern introduced in many years, at \$9.00 per dozen; 50 plants at 60c each; 100 plants at 50c each; 500 plants at 45c each; 1000 plants at 40c each.

MADE-UP KENTIAS.

3 plants in a 3-inch pot, 15 in. high.....	Doz.	100
3 to 4 plants in a 7-inch pot, 36 to 40 in. high.....	\$4.50	\$35.00
4 plants in a 9-inch pot, 42 to 48 in. high.....	2.50 each	
	5.00 each	

LATANIA BORBONICA.

2 1/4-inch pots, 4 to 5 leaves.....	Doz.	100	1000
3-inch pots, 5 to 6 leaves.....	\$.60	\$5.00	\$40.00
4-inch pots, 5 to 6 leaves, 15 in. high.....	1.00	8.00	75.00
4-inch pots, 5 to 6 leaves, 15 in. high.....	2.50	20.00	
6-inch pots, 5 to 6 leaves, 18 to 20 in. high.....	9.00	75.00	
8-inch pots, 6 to 7 leaves, 24 in. high.....	Each.	Doz.	
8-inch pots, 6 to 7 leaves, 30 in. high.....	\$1.50	\$18.00	
8-inch pots, 7 to 8 leaves, 36 in. high.....	2.00	24.00	
	2.50	30.00	

PHOENIX CANARIENSIS.

6-inch pots, 24 to 26 in. high, bushy, stocky plants.....	Each.	\$1.25
7-inch pots, 26 to 28 in. high, bushy, stocky plants.....		1.75
8-inch pots, 28 to 30 in. high, bushy, stocky plants.....		2.00

For the most complete line of General Florists' Stock see our Quarterly Wholesale List Issued September 1.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA PA.

IVORY, or White Golden Gate. TRUE STOCK

Strong 4-inch pot plants, \$6.50 per 100; \$60.00 per 1000.

Strong 2 1-4-inch pot plants, \$3.00 per 100; \$25.00 per 1000.

W. A. Hammond
107 E. Broad St., Richmond, Va.

Field-Grown **ASPARAGUS SPRENGERI**

Nice clumps at \$3.00 and \$5.00 per 100.

C. WINTERICH, DEFIANCE, OHIO.



ARECA LUTESCENS, per doz.—2 1/4-inch, 75c; 3, \$1; 3 1/2, \$2; 4, \$3.
 KENTIA BELMOREANA, per doz.—2 1/4-inch, \$1.50; 3-inch, \$2;
 3 1/4-inch, \$3; 4-inch, \$3.60; 6-inch, \$7.20; 6-inch, \$18.
 KENTIA FORSTERIANA, per doz.—2 1/4-inch, \$1.50; 3-inch, \$2.00;
 3 1/4-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20.
 LATANIA BORBONICA, per doz.—2 1/4-in, 60c; 3, \$1; 6, \$7.20; 7, \$10.
 PANDANUS VEITCHII, per doz.—5-in., \$12; 6 in., \$18; 8-in., \$42.
 PANDANUS UTILIS, 4-in., \$3 per doz.
 NEPHROLEPIS BOSTONIENSIS, per doz.—5-in., \$3; 6-in., \$6; 7-in.,
 \$9; 8-in., \$12; 9-in., \$18; 10-in., \$24.
 ASPARAGUS PLUMOSUS NANUS, per 100—2-in., \$4; 3-in., \$8; 4, \$12.
 ASPARAGUS SPRENGERI, per 100—4-inch, \$12.
 PHOENIX CANARIENSIS, 6-inch, \$6 per doz.
 SEAFORTHIA ELEGANS, 5-inch, \$5 per doz.
 DRACAENA INDIVISA, 4-in., \$2; 5-in., \$3; 6, \$5; strong, \$8 per doz.
 ADIANIUM, 2 in., \$4; 3-in., \$8 per 100. Small ferns for dishes \$3
 per 100; \$25 per 1000.
 FERN BALLS, well furnished with leaves, \$3 to \$5 per doz.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

ASPARAGUS Plumosus Nanus.

Extra fine 2 1/4 inch, better than some 3-inch, \$3.50 per 100; \$30.00 per 1000. Extra fine, 3-inch, \$5.00 per 100. Sample of either, size 10c free by mail.

CASH PLEASE.

H. TONG, Wholesale Grower, Ashtabula O.

PAEONIAS FOR FALL...

10 distinct, best kinds, \$10.00 per 100.

Poets Narcissus, dbl. & sgl., home grown, \$5 a 1000.
 Clematis, large flowering, \$2.50 per doz.; \$16 per 100.

SMILAX A few hundred fine heavy plants, one year, \$3 per 100.

F. A. BALLER, Bloomington, Ill.

Denver.

A VISIT TO GROWERS FINDS THEM IN GOOD SHAPE FOR THE APPROACHING SEASON. —TRADE FAIR FOR SO EARLY.—OUTDOOR SUPPLIES ABOUT AT AN END.

A trip around the growing establishments shows everyone in good shape for the coming season, which, from present indications, promises to be a good one. The growers who were hit by the hail a few weeks ago have about patched up. Quite a few more Beauties are planted than last season and evidently the growers realize that they are the best paying crop, judging from last season's sale. Chrysanthemums look especially good and I hardly think there will be any complaint over a shortage of these flowers along in November. Carnations are looking good, especially those of the Colfax Avenue Floral Company, Park Floral Company and Benson. The cut at present is very small, but there will be quantities along in two or three weeks. We seem well supplied with the newer varieties. Violets with one or two exceptions show up poorly, but one cannot always tell. They may change for the better as quickly as they go off. Maler & Denkworth, who have grown them very successfully for several years, and supplied most of the town, have them in good shape again this season.

Trade leans to good, while the supply shortens up very materially as the season advances. The outdoor supply of stock is very nearly over and grades decidedly poor. The aster crop has been a failure with nearly everyone and small prices were realized for them. At present Glauber, of Montclair, is sending in some very good Semple's grown indoors. These sell readily at good prices. Gladioli are still coming in but are of poor quality.

Ben. Boldt, who this season is growing for the Daniels & Fisher Company, at Mud Lake, is experiencing considerable trouble with the water supply, the casing giving way in the artesian well. As it is now he cannot use the water owing to the alkali that he pumps with it. Another well is being sunk.

Benson's new range of glass at South Denver is all completed and planted up. They are fine houses, five of them 21x200. With the exception of violets, his stock looks grand and well advanced. B.

COLORADO SPRINGS, COL.—A. J. Baur, formerly of Erie, Pa., is now with Wm. Clark.

BULBS, Etc.

- ROMAN HYACINTHS, 12 to 15, \$2.75 per 100; \$24.00 per 1000.
- GRANDIFLORA NARCISSUS, best quality, \$9.00 per 1000.
- INDIA RUBBER PLANTS, 15 to 18 inches, \$4.20 per doz.
- GLASS—18 boxes, 16x16, single strength, A, new, \$3.00 per box. 50 boxes, 18x20, double strength, \$4.65 per box.
- 3-inch, 2-inch and 1-inch pipe, new and second-hand, for sale. CASH.

F. WALKER & CO.,
644 Fourth Ave. Louisville, Ky.

GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs

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THE GARDENING CO. MONON BUILDING, Chicago, Ill., U.S.A.

Philadelphia Wholesale FLOWER MARKET

2,500 Boston Ferns

Strong, from bench, for 5-in. pots, \$20.00 per 100.
PRIMULA OBCONICA, Grand. Alba, 2-in. \$2 per 100.
 Grand. Rosea, " \$2 per 100.
UMBRELLA PLANTS, 2-in., strong, \$1.50 per 100; \$12.00 per 1000.
ASPARAGUS SPRENGERI, 2-in., \$2 per 100.
ASPARAGUS PLUMOSUS NANUS, 2-in., \$3 per 100.
CHRISTMAS PEPPERS, fit for 4-in., \$1.50 per 100.
POINSETTIA, 3-in., fit for 5-in., \$6 per 100.
VINCA, 2 varieties, field clumps, \$5 per 100.
500,000 GIANT PANSIES, \$3 per 10.0.
50,000 Dbl. DAISIES, Snowball, Longfellow, Giant.
5 000 FORGET-ME-NOTS, 2 varieties, \$5 per 1000.
 Contracts taken for growing Double Petunias cuttings and plants, 4) varieties. CASH.

BYER BROS., CHAMBERSBURG, PA.

Primroses

- CHINESE**, single mixed, fine Per 100 \$2.00
 - FORBESII**, "Baby" 2.00
 - OBCONICA Grandiflora** 2.00
 - Asparagus PLUMOSUS**, 2-in. pot..... 3.00
 - Asparagus SPRENGERI** 2.00
 - CINERARIAS**, now ready 2.00
 - PANSY PLANTS**, ready Oct. 1, 1000, \$3, .60
 - NARCISSUS Paper White Grandiflora**..... 1.00
- CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

Chrysanthemum...

TIMOTHY EATON, well-rooted cuttings, \$2.25 per 100. Sample 2) for 50 cts., express prepaid: Plants, \$3.00 per 100, express not prepaid. All healthy and strong.

Geraniums...

1,500 S. A. Nutt, 500 La Favorite, from 2 1/2 and 2-inch pots, mostly 2 1/2-inch, large per cent in bloom or bud, ready shift, \$1.50 per 100; \$14.00 per 1000.
 Unrooted cuttings of S. A. Nutt, 70 cents per 100; \$6.00 per 1000. Cash with order.

DES MOINES PLANT CO.,
38th St., Des Moines, Iowa.

Begonia Gloire de Lorraine.

2 1/2-inch pots, \$1.25 per doz.; \$10.00 per 100.
 Rooted cuttings, \$1.00 per doz.; \$6.00 per 100.
 CASH PLEASE.

HENRY EICHHOLZ, Waynesboro, Pa.

- SWANLEY WHITE VIOLETS**, 2 1/2-in..... Per 100 \$3.00
- CALIFORNIA VIOLETS**, field clumps 3.00
- 5,000 SPIRAEA**, Anthony Waterer, 2 to 3 ft 7.00
- 5,000 VINCA MAJOR VARIEGATA** 5.00
- 5,000 SHRUBS AND VINES**, see list.
- 50,000 STANDARD CANNAS**, including best pink sorts, \$3.00 up. Cash.

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DAVID RUST, Secretary.

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Burbank's Shasta Daisy Seed, 25c per 100; \$2 per 1000; \$18 per oz.
 Asparagus Sprengeri Seed, \$1.60 per 1000; 5,000 for \$6; 10,000 for \$11.
 Pansy Giant Mixed, \$1 per ounce; \$10.00 per lb.

PLANTS.

Burbank's Shasta Daisy, 2-in., \$10 per 100; 3 1/2-inch, \$15 per 100.
 Calla Bulbs, 1st size, \$4 00 per 100.
 Asparagus Plumosus Nanus, fine 2 1/2-in., \$3 per 100; \$25 per 1000.
 3 1/2-inch, extra fine, \$5 per 100; \$40 per 1000. 250 plants at 1000 rate. Express prepaid.

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LOOMIS, CAL.
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SPECIAL Clearing Sale.

To Move Quick, we will offer the following stock, in first-class condition and true to name. If you have any use for the following, don't miss this opportunity.

- 15,000 Geraniums**. All from 2 1/2 inch pots—Jean Visud, \$3 0) per 100; Dutchess of Orleans (the variegated wonder), Beaute Poitevine, E. G. H H, Alp. Ricard, Mme. Jaulin, Mme. Bruant, Athlete, Thos. Meehan, Kelway, Morton, \$1 75 per 100; S. A. Nutt and Frances Perkins, the leading bedders, \$1 5) per 100; \$15 00 per 1000.
- 25,000 Smilax**, extra strong plants from 2 1/2 inch pots (fine), \$1 00 per 100; \$8.00 per 1000.
- 10,000 Asp. Sprengeri**, strong plants, from 2 1/2-inch pots, \$1.50 per 100; 2 1/2-inch, (fine), \$2.50 per 100. Cash.

The W. T. Buckley Plant Co., Springfield, Ill.

A FEW GOOD THINGS YOU WANT.

- ARECA LUTESCENS**, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
- KENTIA** Belmoreana and Forsteriana, extra clean and well grown plants, 2 1/2, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
- REX BEGONIA**, 2 and 3-inch, \$1 and \$6 per 100.
- BOSTON FERN**, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.
- FERN**, Cordata Compacta, 2 and 3-inch, \$4 and \$10 per 100.
- ASPARAGUS Plumosus**, 2-inch \$5; 3-inch, \$8. Sprengeri, 2 inch \$3; 3 inch, \$5, per 100.
- DRACAENA INOVISA**, 4, 5-in., \$10, \$25 per 100.
- ENGLISH IVY**, 2 and 3-inch, \$3 and \$6 per 100.
- SMILAX**, Vinca Var., 2 inch, \$2.00 per 100.
- CAMPBELL VIOLETS**, 3-inch, \$4.00 per 100.
- FIELD-GROWN CARNATIONS** Scott, McGowan, Portia, P. achblow, Ethel Crocker, Genevieve Lord, \$4 00 per 100; Prosperity, \$3.00 per 100

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ARAUCARIA EXCELSA.			
Size Pots.	Height.	Whorls.	Each.
5-inch	12 inches	3 to 4	\$.75
5-inch	15 "	3 to 4	1.00
7-inch	22 to 24 "	4 to 5	1.50

ARAUCARIA EXCELSA GLAUCA.			
Size Pots.	Height.	Whorls.	Each.
5-inch	12 inches	3 to 4	\$1.00
5-inch	14 "	3 to 4	1.25
7-inch	26 "	5 to 6	3.00

ARAUCARIA ROBUSTA COMPACTA.			
Size Pots.	Height.	Whorls.	Each.
5-inch	10 inches	2 to 3	\$1.25
6-inch	14 "	3	1.75
7-inch	22 "	4	3.00

PANDANUS UTILIS.				
Size Pots.	Height.	Each.	Doz.	Per 100
6-inch	20 to 22 inches	\$.75	\$8.00	
7-inch	24 to 26 "	1.00	12.00	

FICUS ELASTICA—RUBBER TREE. PERFECT, SHAPELY PLANTS.				
Size Pots.	Height.	Each.	Doz.	Per 100
5-inch	12 to 14 inches	\$.50	\$5.00	\$40.00
5-inch	15 to 18 "	.60	6.00	

KENTIA BELMOREANA.				
Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	6	18 to 24 inches	\$.75	\$7.50
5-inch	5 to 6	22 to 24 "	1.00	12.00
6-inch	6 to 7	28 to 30 "	1.50	18.00
7-inch	6 to 7	30 to 32 "	2.00	24.00
8-inch	6 to 7	38 "	2.50	
8-inch	6 to 7	38 to 41 "	3.50	

LATANIA BORBONICA.				
Size Pots.	4 to 5 character leaves	Height.	Each.	Doz. Per 100
5-inch		20 inches	\$.40	\$4.00 \$35.00
6-inch		20 to 24 inches	.75	9.00
7-inch	8 to 9 "	25 to 28 "	1.25	15.00
8-inch	8 "	40 to 48 inches	3.60	

BOSTON FERNS.
Large stock of all sizes pot-grown plants. Write for prices.

KENTIA FORSTERIANA.				
Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	5 to 6	20 to 24 inches	\$.75	\$9.00
5-inch	5 to 6	26 to 28 "	1.00	12.00
5-inch	5 to 6	30 "	1.25	15.00
6-inch	5 to 6	32 to 36 "	1.50	18.00
7-inch	6	36 to 38 "	2.00	24.00
7-inch	6	40 to 42 "	2.50	
8-inch	6	44 to 46 "	3.50	
8-inch	6	48 to 50 "	4.00	

CYCAS REVOLUTA.
We can supply fine plants, well rooted, with fine, perfect crowns, in sizes from 3 to 10 lb. stems, at an average price of 40c per lb.

PHOENIX CANARIENSIS.				
Size Pots.	Height.	Each.		
7-inch	24 to 26 inches, stocky plants	\$1.50		
9-inch	4 feet, stocky plants	3.00		

ASPARAGUS PLUMOSUS NANUS.				
We have a very large stock of all sizes.				
2½-inch pots	per doz.	per 100		
3-inch pots	1.00	8.00		
4-inch pots	2.00	15.00		
5-inch pots, very fine,	4.00	30.00		
6-inch pots,	6.00	50.00		

ASPARAGUS SPRENGERI.				
2½-inch pots,	per 100,	3.50	per 1000,	\$31.00
4-inch pots,	per doz.,	\$1.50	12.00	
5-inch pots,	"	2.50		
6-inch pots,	"	5.00		

CELESTIAL PEPPER, OR CHRISTMAS CHERRY.				
One of the best plants for Thanksgiving and Christmas sales. We have a large stock of well grown plants.				
3-inch pots, strong,	per doz.,	\$.75	per 100,	\$ 6.00
4-inch pots	"	1.25	10.00	

FIELD-GROWN CARNATIONS.				
Wm. Scott	Per 100			
Norway	\$ 5.00			
G. H. Crane	6.00			
Estelle	8.00			
Mrs. H. N. Higginbotham	12.00			

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GREENHOUSES, WESTERN SPRINGS ILL.

ASPARAGUS PLUMOSUS
Extra fine 2-inch stock, \$3.50 per 100; \$30.00 per 1000. 2½-inch, \$4 per 100; \$35 per 1000.
EXPRESS PREPAID.

Pansy Seed
1892 GIANT OF CALIFORNIA.
\$4.00 per ounce, ¼ ounce at same rate.
FIELD-GROWN CARNATIONS.
QUEEN LOUISE.....\$7.00 per 100.
MERMAID..... 6.00 per 100

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SPECIALTIES
ROSES, from 3-inch pots.
CARNATIONS, for all delivery, **In Best**
CHRYSANTHEMUMS, **Varieties**
SMILAX, **VIOLETS**.
Prices Low. Send for List.
WOOD BROTHERS, Fishkill, N. Y.

BEGONIA GLOIRE DE LORRAINE,
Begonia Light Pink Lorraine,
For July and Later Delivery,
\$15.00 per 100; \$140.00 per 1000.
Edwin Lonsdale, Wyndmoor, near Chestnut Hill, Pa.

Asparagus.

50,000 Asparagus Plumosus Nanus,
extra strong bright clean plants, 2½-inch,
\$3.50 per 100.
Sprengeri, fine strong plants, 2½-inch,
\$3.00 per 100.
Boston Ferns, 2½-inch, \$3.00 per 100;
8-inch, 75c each.
25 Fine Rubber Plants, 3 feet, \$1.00
each. The lot for \$20.00.

CASH PLEASE.
A. J. BALDWIN, NEWARK, O.

ASPARAGUS PLUMOSUS
3-inch, ready for a shift, \$6 per 100.
CARNATION PLANTS.
Fine large plants—G. Lord, E. Cocker, Flora
Hill, White Cloud, Queen Louise, at \$1.50 per 100.
WRITE US.
VAN WERT GREENHOUSES, Van Wert, O.

Adiantum Cuneatum.
Clumps for 5-inch pots..... Per 100 \$6.00
Umbrella Plants, strong, 4-inch, 4.00
Coleus Thyrsoides, for winter-
blooming, 2-inch, \$4.00; 3-inch 6.00
Twenty five at half dried rate.
J. A. WIBE, Box 125, Downers Grove, Ill.

We have the largest stock of
ARAUCARIA EXCELSA
in the country, May importation,
raised from top cuttings only.

5-inch pots, 3 tiers, 10 inches and above.....	\$.50
5½-inch pots, 12 to 14 inches.....	.60 to .75
6-inch pots, 15 to 18 inches.....	.75 to 1.00
Specimen.....	1.25
KENTIA FORSTERIANA and BELMOREANA , 5½ to 6-in. pots, 25 to 30 inches high.....	.75
FICUS ELASTICA , 5½ to 6-in., 18 to 24 inches high from \$4.00 to \$5.00 per doz.	
BOSTON FERNS , 6-inch pots.....	.40

Cash with order please. To save express mention if pots to be taken off.

GODFREY ASCHMANN,
WHOLESALE GROWER AND IMPORTER
OF POT PLANTS,
1012 Ontario Street, PHILADELPHIA, PA.

Orders booked now—delivery in September—
for my Nephrolepis Fern
"ANNA FOSTER"
Small plants, \$25.00 per 100; larger
plants prices on application
BOSTON FERN now ready at \$25 and \$50 per 100.
L. H. FOSTER, 45 King St., Dorchester, Mass.

Smilax!
Strong Plants, 2½-inch pots ready for
beheading, \$1.00 per 100; \$10.00 per 1000.
JOHN BROD, NILES CENTER, ILL.

Pittsburg.

CLUB HOLDS MEETING AFTER TWO MONTHS' VACATION.—BUSINESS SHOWS PROGRESS.—HURT IN A WRECK.—NOTES.

The Pittsburg and Allegheny Florists' Club held its first meeting of the new season on September 1. Vacation stories went the rounds, business intentions and desires were exchanged, and it was evident that those present were glad to get down to business again. Some geraniums, seedlings from the private collection of H. C. Prick, were exhibited and some hydrangeas from Schenley Park. E. C. Reinman outlined the happenings of the convention. Julius Ludwig also spoke interestingly of his tour of the public parks of the cities of Rochester, Buffalo, Brooklyn and New York.

While going to Atlantic City August 31 Mr. and Mrs. Thomas Ulam were the victims of a railroad wreck. Mrs. Ulam suffered serious injury, being thrown violently into the rear of the car. She has recently recovered from an attack of appendicitis. Mr. Ulam was badly bruised.

Business has advanced a few pegs during the week and the quality of roses has moved with it. Kaiserin, Liberty and Bridesmaid are better than they have been for a long while. Asters, carnations, gladioli and lily of the valley compose the general run of stock on sale.

Mrs. E. A. Williams will again make an exhibit at the Pittsburg Exposition. Her stand last year was very attractive.

John Bader has returned from two months in Europe. He had a delightful time.

W. B. Flemm and mother are visiting New York and Boston. E. L. M.

Louisville, Ky.

A SILVER WEDDING ANNIVERSARY.—VARIOUS NOTES OF LOCAL INTEREST.

Jacob Schulz and wife celebrated their silver wedding anniversary a few days ago. The Society of Kentucky Florists presented them with an elegant leather chair. Their home was beautifully decorated and several hundred of their friends were in attendance and brought many beautiful presents of silverware.

C. H. Kunzman has finished his large carnation house. It is the most up-to-date house in Louisville.

The florists from here who went to Asheville were well pleased with their trip.

Chas. Raynor's modern range of houses at Anchorage, Ky., is nearing completion.

Asters are plentiful and wholesale here at \$1 to \$1.50 per hundred.

Roses are of good quality but scarce. H. G. W.

CLINTON, MASS.—Frank P. Sawyer is about to open a commodious store in the Peirce building on High street.

Cressbrook Carnations

From field, nice strong plants, \$10.00 per hundred; \$75.00 per thousand.

Order early as I have only a few thousand left.

**C. WARBURTON,
FALL RIVER, MASS.**

ROSES FOR WINTER FLOWERING.

BRIDESMAIDS, MME. HOSTE, SAFRANO, GOLDEN CATES, 3-inch pots, \$6.00 per 100.
GRAFTED GOLDEN CATE, very fine, \$12.00 per 100.
BRIDESMAID, 3 1-2-inch pots, \$12.00 per 100.
IVORY, American Rose Co.'s Stock, \$15.00 per 100.
J. L. DILLON, Bloomsburg, Pa.

MURPHY'S WHITE.

A commercial white Carnation, vigorous and healthy grower, early, free and continuous bloomer; stem and calyx its strongest points; a white flower and very fragrant; an enormous producer both as a summer and winter bloomer. Price within reach of all. Will be distributed beginning January 15, 1903. Facilities for rooting 300,000 cuttings. You will want it, so place your order at once.

100, \$6.00; 1,000, \$50.00;
5,000, \$45.00 per 1000; 10,000, \$40.00 per 1000.
 I am headquarters for Estelle cuttings, \$4.00 per 100; \$30.00 per 1000. Correspondence solicited.

WM. MURPHY, Wholesale Carnation Grower, STA. F. CINCINNATI, O.

Surplus Stock of Field-Grown Carnation Plants

Extra strong stock, \$4 per 100; \$35 per 1000.

- | | |
|---------------|--------------|
| E. CROCKER, | WM. SCOTT. |
| ELDORADO, | CRANE, |
| DAYBREAK, | JOOST, |
| METEOR, | AMERICA. |
| FLORA HILL, | WHITE CLOUD, |
| CERISE QUEEN, | ARMAZINDY. |

J. B. HEISS, The Exotic Nurseries, DAYTON, OHIO.

Field-Grown Carnations.

Fine, strong, healthy plants of Mrs. Lawson, Prosperity, Mrs. Bradt, Queen Louise, Marquis, Genevieve Lord, Ethel Crocker, Joost, Daybreak, Wm. Scott, Jubilee, Crane, America, Gomez, Maceo, Eldorado, at \$5.00 per 100, to close them out. CASH WITH ORDER. Also a few hundred MAIDS and BRIDES, 3 1/2-inch pots, \$4.00 per 100.
M. J. LYNCH, Poughkeepsie, N. Y.

3,000 Dbl. Pæonias

Dark Rose, \$8 per 100; \$70 per 1000.

3,000 CRIMSON RAMBLERS

\$9.00 to \$12.00 per 100.

Chas. Lenker, Freeport, L. I., N. Y.

ROSE PLANTS.

CLEARANCE SALE—Brides and Meteors, \$2.50 per 100; \$19.00 per 1000.

Re-potted three times. Elegant stock. Never offered better plants. Unknown parties cash with order.

BRANT & NOE, FOREST GLEN, CHICAGO.

FIELD-GROWN CARNATIONS

100 Marquis, 250 Norway, \$6.00 per 100.
 400 Flora Hill, 300 Crane, 600 Triumph, 600 Daybreak, \$5.00 per 100; \$45.00 per 1000. Cash.

W. SABRANSKY, KENTON, OHIO.

Carnations, Geraniums Cannas, Etc.

Prices quoted upon application.

The Cottage Gardens, Queens, L. I.

Field-Grown CARNATIONS

- | | | |
|--------------------|---------|--------|
| Ethel Crocker..... | per 100 | \$4.00 |
| Daybreak..... | " | 4.00 |
| Argyle..... | " | 4.00 |
| Hill..... | " | 4.00 |

HOLLYHOCKS for fall planting, Chater's and Allegheny strains, strong, field-grown plants..... \$5.00 per 100

CALLA BULBS, extra large size...\$7.50 per 100

Wagner Park Conservatories, SIDNEY, OHIO.

FIELD-GROWN Carnations

Fine, Strong, Healthy Plants.

- | | | | |
|--------------------|---------|----------|--------------|
| MRS. LAWSON..... | Per 100 | Per 1000 | \$8.00 |
| MRS. BRADT..... | | | 7.00 |
| ETHEL CROCKER..... | | | 5.00 \$45.00 |
| QUEEN LOUISE..... | | | 7.00 60.00 |
| FLORA HILL..... | | | 5.00 45.00 |
| PEACHBLOW..... | | | 5.00 40.00 |
| UNCLE WALTER..... | | | 5.00 |

Asparagus Plumosus, 2 1/2-in. 4.00 35.00
W. T. & F. P. BUTZ, New Castle, Pa.

A 1 Carnation Plants

Crane, Marquis, Flora Hill..... 5 cents
 Jubilee, Daybreak, Victor..... 4 cents
 The weather here has been favorable and the plants are fine.

FRANK BERRY, Stillwater, Minn.

1,500 CARNATION PLANTS.

- | | | | |
|--------------------|---------|---------------|--------|
| Mrs. F. Joost..... | Per 100 | Per 1000 | \$5.00 |
| White Cloud..... | | | \$5.00 |
| Gen. Maceo..... | 5.00 | Eldorado..... | 5.00 |
| G. H. Crane..... | 5.00 | Elm City..... | 5.00 |
| Daybreak..... | 5.00 | | |

We consider a plant with from 9 to 15 shoots a fair plant and these are what we offer, healthy and strong. Cash with order.

C. A. GARDNER, Waketield, Mass.

CARNATIONS!

Extra strong field-grown plants. 6,500 Ethel Crocker. \$1 per 100; \$30 per 1000; \$160 for the lot. Sample by express, 25c. Cash with order.

PETER BROWN, LANCASTER, PA.

HERRON....

**Carnation Grower,
OLEAN, N. Y.**

Please mention the American Florist when writing.

**ROBT. CRAIG & SON,
Roses, Palms**
 and Novelties in Decorative Plants.
 Market and 49th Sts., Philadelphia, Pa.
 Please mention the American Florist when writing.

Extra Fine Field-Grown
**Carnation
PLANTS.**

1500 Wm. Scott	\$5.00 per 100
2000 Ethel Crocker	5.00 per 100
300 Gen. Maceo	6.00 per 100
300 Norway.....	6.00 per 100
1000 Mrs. Joost.....	6.00 per 100
1000 White Cloud.....	8.00 per 100
500 Gold Nugget.....	8.00 per 100
500 Prosperity	8.00 per 100

LEO. NIESSEN,
N. W. Corner 13th and Filbert Streets,
PHILADELPHIA. PA.

**Miss Louise
Faber** The Longest Stemmed
and Most Fragrant
Carnation in Existence

Stems measure from 3 feet to 6 inches to 4 feet. Flowers are of a beautiful pink, similar to a well colored Bridesmaid rose and average 2½ inches. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for Jan. delivery.

FICK & FABER, SAN MATEO, CAL.

FIELD-GROWN CARNATIONS

Crane (red), Joost (pink), Mary Wood (white), Smilax, Asparagus Plumosus, Sprengeri and Boston Ferns.

Write **GEO. A. KUHL, PEKIN, ILL.**

CARNATIONS

Marquis, Gomez, fine field-grown, \$5.

ROSES Brides and Maids, 3½-inch, \$4.00.

Mums in variety, \$2 per 100.

Write **L. E. MARQUISEE, Syracuse, N. Y.**

FIELD GROWN CARNATION PLANTS.

Maceo, Gomez, Flora Hill, Joost, Progress, G. Lord and Marquis, \$5.00 per 100; \$40.00 per 1000. Samples by mail 10 cents.

The Albert H. Brown Co., Westboro, Mass.

New Scarlet "ORIOLE" Carnation...

Strong and healthy field plants, \$12.00 per hundred; \$100 per thousand.

Write **JOHN B. GOETZ, Saginaw, W. S., Mich.**

All The Best CARNATIONS

Orders booked now for fall delivery.

SEND FOR PRICES.

Rotted cuttings and young plants all out.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

Please mention the American Florist when writing.

100,000 Field-Grown
CARNATION PLANTS

Plants now are in first-class condition. We have no stem rot.

OUFEN LOUISE. COV. ROOSEVELT.	PROSPERITY. CDJDENOUCH.	BUTTERCUP. IRENE.	BON HOMME. NORWAY.
MRS. B. LIPPINCOTT. CENEVIEVE LORD.	MARQUIS. ELDORADO.	VICTOR. PORTIA.	DAYBREAK. C. A. DANA.
\$7.00 per hundred.		\$5.00 per hundred.	

J. L. DILLON, - - - BLOOMSBURG, PA.

CARNATIONS

FIELD-GROWN PLANTS.

	Per doz	Per 100
CRESSBROOK, early 1st.....	\$3 00	\$15.00
propagated, 2nd.....	2 50	12.00
FAIR MAID.....	2.50	12.00
FLORIANA.....	1.50	8.00
NORWAY, extra.....	1.50	10.00
GENEVIEVE LORD.....	1.50	8.00
PROSPERITY.....	1 50	10.00
EGYPT.....	1.00	7.00
MERMAID.....	1.00	6.00
LAWSON.....	1.50	8.00

The above are all in good shape, ready for immediate shipment. 25 plants of one variety at 100 rate.

CHRYSANTHEMUMS.

We still have some nice thrifty young stock which we offer at \$2.50 per 100, our selection. For list see issue of Aug. 23d.

H. WEBER & SONS, Oakland, Md.

Field-Grown **Carnation Plants**

Strong and Perfectly Healthy.

	Per 100
Lawson, fine plants.....	\$8.00
Marquis.....	6.00
Norway.....	6.00
Genevieve Lord.....	6.00
White Cloud.....	5.00
Joost.....	5.00
Estelle, 2nd size.....	5.00

Write **S. J. REUTER, WESTERLY, R. I.**

6,000 VERY FINE FIELD-GROWN

Carnations

that we guarantee will please anyone. Write for list and prices.

FURROW BROS., Guthrie, Oklahoma.

Carnations...

Bradt, Norway, Morning Glory, Flora Hill, White Cloud, Crane, Marquis, G. Lord, Mme. Chapman, Glacier and Daybreak. Write for sizes and prices.

VIOLETS Imperial, M. Louise, Swanley White from 3-in., \$3.75 per 100; \$35 per 1000. L. Campbell, \$1.50 per 100, \$20 per 1000.

CRABB & HUNTER, GRAND RAPIDS, MICH.

Field-Grown Carnations.

500 PINGREE.....	\$4.00 per 100
500 ETHEL CROCKER... ..	4.00 per 100
400 WHITE CLOUD.....	4.00 per 100
500 MCGOWAN.....	4.00 per 100
500 JOOST.....	4.00 per 100

These are fine plants. Cash with orders please.

Write **C. L. VAN METER, Monticello, Iowa.**

SURPLUS CARNATION PLANTS.

Very Nice and Healthy Plants at \$4.00 per 100,

100 Marquis.	200 McGowan,
100 Morning Glory.	200 White Cloud,
100 Scott.	200 Flora Hill,
100 Daybreak.	300 Crane.
75 Crocker.	

SUNNYSIDE GREENHOUSES, Owosso, Mich.

Field-Grown
CARNATIONS

Fine, Strong, Healthy Plants.

	Per 100	Per 1000
PROSPERITY.....	\$4.00	\$35.00
MRS. LAWSON.....	7.00	60.00
MARQUIS.....	4.00	35.00
NORWAY.....	4.00	35.00
GENEVIEVE LORD ..	4.00	35.00
CRANE.....	5.00	45.00
MORNING GLORY...	5.00	45.00
MRS. L. INE.....	5 00	45.00
JOOST.....	4.00	35.00
AMERICA.....	4.00	35.00
TRIUMPH.....	4.00	35.00
HOOSIER MAID.....	4.00	35.00
MELBA.....	4.00	35.00
GUARDIAN ANGEL	4.00	35.00

PETER REINBERG,
51 Wabash Ave., Chicago.

15,000 Field-Grown 15,000

CARNATIONS

Extra fine plants of Lawson, Roosevelt, Marquis, Crane, White Cloud, Cervera, Joost, and Maceo. Write for price list.

Write **GEO. E. BUXTON, Nashua, N. H.**

BARGAINS IN ROSES.

CLEARING SALE AT VERY LOW PRICES.

Clean Vigorous Plants.	100	1000
Brides, Kaiserros, 3-inch.....	\$1.00	\$35.00
Golden Oates, Meteors.....	4 00	35.00
Brides and Maids, 2-inch.....	2 00	20.00

CARNATIONS Splendid, branchy plants, field-grown: Flora Hill, Marquis, Joost, Armazindy, Triumph, scott, \$5.00 per 100; \$40.00 per 1000. Prosperity, \$8.00; Mrs. Bradt \$6.00. Write **W. H. GULLETT & SONS, Lincoln, Ill.**

20,000 Healthy Strong Field-Grown Carnation Plants

All cuttings taken from flowering stems: 15,000 Lizzie McGowan, \$3.00 per 100 3,000 sport of McGowan, white, more dwarf and robust, \$3.00 per 100. 3,000 Russel, good pink, moves easily, \$4.00 per 100.

Write **AARON KEITER, Parker Ford, Pa.**
Please mention the American Florist when writing.

Minneapolis.

VARIOUS NOTES OF DOINGS IN THE TRADE.
—GOOD CUT FLOWER STOCK NONE TOO PLENTIFUL.

In front of the "New Store" are five large urns, mounted on pedestals eighteen to twenty feet high, which are filled with choice blooming plants and vines. They certainly make an attractive display. It is the first thing of its kind undertaken by one of the department stores and will probably be followed by its competitors.

Trade conditions are not much changed as yet. Some very fine new cut tea roses are in market, with good flowers but short stems. Carnations for outdoor stock are very fine, but white is scarce. Asters and gladioli are in good supply, although the latter move very slowly.

R. Wessling has some fine Boston ferns on display. His success with these is unexcelled.

Arthur Blome, of the C. C. Pollworth Company, Milwaukee, was in the city last week.

This is the week of the State Fair and a number of the trade are making exhibits.
C. F. R.

Colorado Springs, Col.

SUCCESSFUL EXHIBITION OF LOCAL HORTICULTURAL SOCIETY.—PROFESSIONAL CLASSES WEAK.—VISITORS.

The fourth annual flower show of the El Paso Horticultural Society was held August 20 to 22 and was a decided success, both in number of entries and in attendance. The entries in the flower and vegetable displays numbered 1,500. The only weak class was the professional, F. F. Crump being the main exhibitor. Most of the success of the show is to be attributed to the president and secretary, H. Harris and F. F. Horn. Judges and visitors were John Berry, Phil. Scott, E. Balmer, Ernest Flohr, Frank Rushmore, R. Kurth, of Denver; G. Fleischer, of Pueblo.
W. H. D.

CLINTON, MASS.—F. P. Sawyer has opened a new store in the Peirce building.

Pansies Worth Raising.

Seed, 3/8 oz. \$1.00
Plants, per 1000. 4.00

FERNS...

FOR JARDINIÈRES.

Assorted from flats, \$4.50 per 100 clumps.
Assorted from pots, \$3.00 per 100 plants.

BOSTON FERNS

From \$15.00 to \$50.00 per 100.

RUBBER PLANTS, \$30.00 per 100.

ASPARAGUS PLUMOSUS
\$5.00 to \$10.00 per 100.

ALL A NO. 1 STOCK.

Sample lots for \$2.00 worth at above rates.
All plants f. o. b. express here.
CASH WITH ORDER.

CHR. SOLTAU,
199 GRANT AVENUE, JERSEY CITY, N. J.

Cyclamen Giganteum!

Extra Strong, 3-inch, \$5.00 per 100.
Cineraria Grandiflora, finest dwarf, \$2.00 per 100; 300 for \$5.00.
Chinese Primrose, \$2.00 per 100. Cash.

J. W. MILLER, HATTON, PA.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.

PALMS.

KENTIA BELMOREANA, 2½-inch pots, \$8.00 per 100.
" " 3-inch pots, \$15.00 per 100.
" " 24 to 28 in., fine bushy plants, \$1.25 each; \$15.00 per doz.
" " 30 to 32 in., perfect condition, \$1.75 each; \$20.00 per doz.
ARECA LUTESCENS, 3-inch pots, (3 plants in pot), \$12.00 per 100.
" " 6-inch pots, (3 plants in pot), 24 inches high, \$70.00 per 100.
CYCAS REVOLUTA, at 60c, \$1.00, \$1.25, \$1.50 and \$2.00 each.

FERNS from 2¼-inch pots.

PTERIS Adiantoides, Pteris Cretica Albo-Lineata, Pteris Alexandrae, Pteris Ouvrardi, Pteris Serrulata, each, \$2.50 per 100.
ONYCHIUM JAPONICUM, \$3.00 per 100.
ADIANTUM PUBESCENS, \$3.00 per 100.

Good assortment of **FERNS**, our selection of varieties, \$20.00 per 1000.

ASPARAGUS.

PLUMOSUS, 2½-inch pots, \$4.00 per 100; 3-inch pots, \$6.00 per 100.
SPRENGERII, 2-inch pots, \$2.50 per 100; 2½-inch pots, \$3.00 per 100.
DRACÆNA GODSEFFIANA, 3-inch pots, \$1.50 per dozen.
MARANTA MASSANGÆANA, 2½-inch pots, \$3.00 per 100.

XXX PRIMROSES.

IMPROVED CHINESE. Ready for 3-inch pots. Well known as the finest large-flowering fringed varieties grown, single or double, \$2.00 per 100; \$18.00 per 1000. CASH. Extras added liberally.

The Home of Primroses. **JOHN F. RUPP, SHIREMANSTOWN, PA.**

GERANIUM BARGAIN

2-inch pot plants at \$1.50 per 100.

JEAN VIAUD and **M. de CASTELLANE** at \$2.00 per 100 and less than 25 of a variety will be at the rate of \$2.50 per 100.

Twenty varieties all correctly labeled, they are not carried over stock but good big cuttings potted up for fall sales. They should be repotted now, order at once.

S. A. Nutt, Buchner, La Favorite, Bonnot, Castris, Perkins, Jaulto, Potevine, Castellane, Viaud, Acteon and Heteranthe in quantity.

Rooted cuttings in the same assortment ready now at the same price.

SMILAX

A few thousand left at \$1.25 per 100.

PANSIES

You all know the quality of the strain that I send out, it is not a cheap one, but a high-class strain—the only kind that it pays you to buy. The plants are good little seedlings at 75c per 100 or \$1.00 per 100.

BONE MEAL

The best for Florist's use at \$3.50 per 200 lb. bag or \$32.50 per ton.

ALBERT M. HERR, Lancaster, Pa.

Orchids!

Arrived in fine condition: **CATLEYA TRIANE.** The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

Please mention the American Florist when writing.

S. S. SKIDELSKY,

708 North 16th St., Philadelphia, Pa.

ASPARAGUS SPRENGERI

These plants have short tops and extra strong roots. Are cheaper and give quicker returns than pot grown stock. \$4.00, \$6.00 and \$8.00 per 100, according to size.

Asparagus Plumosus Nanus

Fine stock for bench planting. From 2¼-inch pots, \$4.00 per 100.

BEGONIA REX Best named varieties. Special price to make room, from 2½-in pots, \$4.00 per 100.

CAREX JAP VARIEGATA A very useful grass, from 2¼-inch pots, \$2.50 per 100.

CYPERUS ALTERNIFOLIUS Bushy, outdoor grown plants in 3-in. pots, extra strong, ready for a shift, \$4.00 per 100.

DOUBLE SWEET ALYSSUM Do not forget this useful flower. Strong, bushy plants from 3-inch pots, \$4.00 per 100.

VIOLETS Princess of Wales, large field clumps, free from disease. Plant now, \$5.00 per 100; 2nd size, \$3.00 per 100. **California,** field-grown, 2nd size, \$3.00 per 100. **Lady Campbell,** pot-grown plants of this variety give better results than field-grown stock. Extra strong, from 3-inch pots, \$3.50 per 100.

PRIMROSES (Chinese.) After several years of careful tests, we are now able to offer stock from the finest imported seed. Can guarantee satisfaction. From 3-in. pots, in white, light pink, scarlet and blue, \$5.00 per 100.

Nathan Smith & Son,
ADRIAN, MICH.

CYCLAMEN

Persicum Splendens Giganteum.

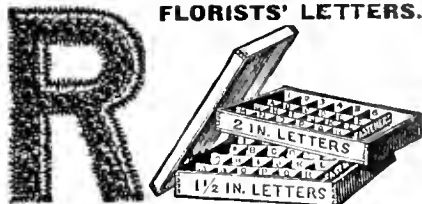
Finest strain in the world, in four true colors, well-grown plants, from 2½-in. pots, \$1.00 per 100; \$35.00 per 1000. Extra selected, \$5.00 per 100; \$40.00 per 1000. From 3-inch pots, \$7.00 per 100; \$65.00 per 1000.

PAUL MADER, East Stroudsburg, Pa.

Please mention the American Florist when writing.

Boston Florist Letter Co.

MANUFACTURERS OF
FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.
Script Letters \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hawley St., BOSTON, MASS.

CUT FLOWER BOXES

WATERPROOF. Corner Lock Style.
The best, strongest and neatest folding cut flower box ever made. Cheap, durable, handy. To try them once is to use them always.

DON'T USE OLD STORE BOXES.

If you have any doubt, send for samples, which speak for themselves.

Sizes No. 1.	3x4 1/2 x 16.	2.00	\$15.00 per 1000
" No. 2.	3x6 x 18.	2.00	" 18.00 "
" No. 3.	4x8 x 18.	2.40	" 22.00 "
" No. 4.	3x6 x 20.	2.75	" 25.00 "
" No. 5.	4x8 x 22.	3.00	" 28.00 "
" No. 6.	4x8 x 28.	3.75	" 35.00 "

THE LIVINGSTON SEED CO.
Box 103, COLUMBUS, O.

SOMETHING ENTIRELY NEW.

A Florists' Plate Book.

150 Plates and nearly 300 varieties for \$3.50 or three for \$10.00.

You can't do business without it.
VREDENBURG & CO, Rochester, N. Y.

A. HERRMANN,

Cape Flowers, all colors,
Cycas Leaves, Metal Designs,
and All Florists' Supplies.

Send for Prices.
404-412 East 34th St. NEW YORK.



Invalid Appliance Co.,
MANUFACTURERS OF
COLUMBIA PLANT TUBS
(PATENTED)
"The kind that never fall apart."
If your seedman doesn't handle them, order of us direct.
FACTORY AND OFFICE:
150-160 WEDDER ST., CHICAGO.
TELEPHONE NORTH 953.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25. Manufactured by
W. J. COWEE, BERLIN, N. Y.
Sample Free. For sale by dealers.

HEADQUARTERS FOR HORTICULTURAL SUPPLIES

Of Every Description.
When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

DUNNE & CO., 54 W. 30th St., New York.
Telephone Call, 1700 Madison Square.

Please mention the American Florist when writing

TO KILL ALL
Greenhouse Bugs
USE
"NICOTICIDE"

Clean and harmless
as Fumigant or Spr.,
Ask your seedsman
for it or write to

**The Tobacco Warehousing
and Trading Co.,**
1000 Magnolia Ave., - Louisville, Ky.

There's Business All Summer

If you will only work it up. Don't let your stock run down. Be sure to have everything on hand that a customer may call for. You will find every requisite listed and priced within the covers of our new Illustrated Catalogue. Free to Applicants in the trade only.

H. BAYERSDORFER & CO.,
Manufacturers and Importers,
50-56 N. Fourth St., Phila., Pa.

TIN FOIL

Plain, Fancy, Printed & Mounted.
Manufactured by

The Conley Foil Co.

521 to 541 West 25th St.,
NEW YORK.

LEADING Florists' Supply House

M. RICE & CO.
Importers and Manufacturers,
918 Filbert Street, PHILADELPHIA, PA.
Catalogue for the asking.

ONE FARE FOR ROUND TRIP
or \$8.50 to Cleveland, O., and return, via Nickel Plate Road, September 26th and 27th, with extended return limit of October 28th by depositing tickets in Cleveland. First-class equipment and service. Three daily trans. Chicago Passenger Station, Harrison St. and 5th Ave. Write John Y. Calahan, General Agent, 113 Adams St., Chicago, for particulars. 46

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn, N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

The Model Extension Carnation Support.



Flushing, Long Island, Dec. 11th, 1901.
MR. THERON N. PARKER,
Brooklyn, N. Y.

Dear Sir - I have used your Wire Carnation Support the last two years, to all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for the trade and you are at liberty to refer to me at any time.

Very truly,
A. L. THORNE,
La Fayette, Ind.,
July 8th, 1902.

MR. THERON N. PARKER,
Harrison, N. J.

Dear Sir: - After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season.

We were much pleased with the simplicity, strength and neat appearance of the support.

Yours truly
F. DONNER & SONS CO.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.

NIKOTEEN

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Horticultural Trade Journal Co., Padham, Lancs., Eng.

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American Florist
.....when writing to an advertiser.

Cincinnati.

BUSINESS VERY QUIET.—SHIPPING TRADE DEAD.—PLENTY OF STOCK.—EARLY CHRYSANTHEMUMS EXCELLED BY LATE ASTERS.—LIBERAL PREMIUMS FOR FALL FESTIVAL EXHIBITS.—VARIOUS NOTES.

There is very little to be said about trade; a little funeral work and a few boxes of cut flowers is about all there is to it. The bottom has fallen out of the shipping trade all of a sudden and this accounts for the immense quantities of asters and other outdoor stock, which accumulate at the commission houses. Carl Schweizer and George & Allan are sending in some very good asters, which seem to have the call at \$1.50 per hundred. Roses are becoming more plentiful but there are too many stork-stemmed ones among them. Edward Ellison is cutting some very good La France, which are about the best roses seen around the city at present, but \$4 per hundred is the best price realized for these. Lily of the valley is to be had in limited quantity.

The premium list for the floral exhibits, to be given by the Fall Festival Association has been sent out. On Thursday, September 18, \$160 is offered in three prizes for table decorations, \$30 for boxes of flowers and \$60 for bridal bouquets. On September 25 \$160 is offered in three prizes for designs, \$30 for baskets of flowers and \$60 for vases of roses.

Julius Baer is handling the few Fitzwygram chrysanthemums coming to this city. Mr. Baer had a very fine lot of choice asters, fully as large as the chrysanthemums, for which he pays \$1.50 and \$2 per hundred, the chrysanthemums costing 75 cents per dozen.

The next meeting of the Florists' Society will be held at President Wm. Murphy's place. Wm. Rogers will read a paper, giving his opinions of and experiences at the Asheville convention.

Hardesty & Company are having their store redecorated and contemplate remodeling the entire interior. They have leased the floor above the store, which they will use for a workshop.

J. A. Peterson says that he is selling a large number of Begonia Gloire de Lorraine and that it pays to advertise when you have something good.

We regret to announce the serious illness of Herman Betz, who has been Mr. Peterson's floral worker and decorator for a number of years.

Visitors: Walter Mott, Wm. Dilger, Martin Renkauf, Phil. Breitmeyer, E. J. Fancourt and Mr. Osternatta. D.

SPRINGFIELD, O.—The Good & Reese Company is pushing work on its new range of greenhouses. Recently the office was moved across the street, into the center of a fine grove to make room for the new houses.

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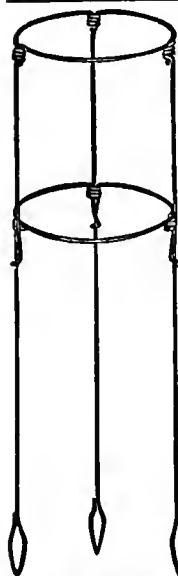
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SOCIAL SEASON AT ITS HEIGHT IN LATE AUGUST.—SOME GOOD DECORATIONS.—COAL AN IMPORTANT QUESTION.

The usual boom in balls and social entertainments is under way and some splendid floral decorations have recently been executed. One by Wadley & Smythe was unique, where the center of the table, twenty square feet, represented a farm-yard scene, filled in with all kinds of vegetables, farm buildings, horses, wagons, farm implements, etc., on the scheme of a "harvest home." This firm also executed the decorations of the McArthur-McCalla wedding and the results brought the highest encomiums from experts in floral decorations.

The Hodgson Company, as in former seasons, has a large trade. This firm decorated for the colonial ball, given by Mrs. Fish, which function, however, gained its fame because no hirsute appendages were allowed.

The topic of the moment is regarding the supply of coal. An unsettled condition of this question for over two weeks may prove damaging to the trade in this section.

Thomas Galvin, the veteran florist and landscape gardener, continues to superintend his large business and sets the younger disciples an excellent example. C. J. M.

Buffalo.

TRADE QUIET.—ASTERS VERY PLENTIFUL BUT GOOD.—PERSONAL AND TRADE DOINGS.

Trade is rather quiet but a flurry was caused last week in the downtown stores by the opening of the Kenilworth track. Every window was "horsey," with yellow, green and white. Palmer, Rebstock, Anderson and Bullock each had a display which was good. Labor day was quiet.

Asters are a glut on the market but some fine ones are coming in from Boettger, of Eggertsville.

S. A. Anderson has the repairs on his greenhouses about completed.

W. F. Kasting is expected home from Europe this week. Bison.

NEW HAVEN, CONN.—The second annual exhibition of the New Haven Horticultural Society will be held at Music Hall on November 11 to 13, 1902. Schedules of prizes are now ready and may be had of the secretary, Thos. Pettit, 316 Orange street.

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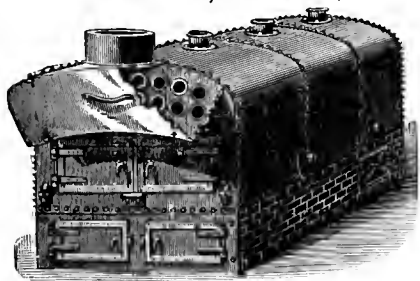
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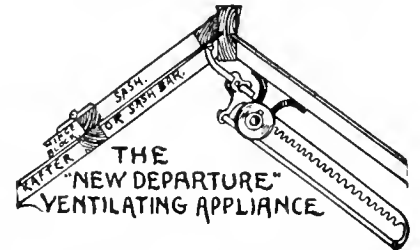
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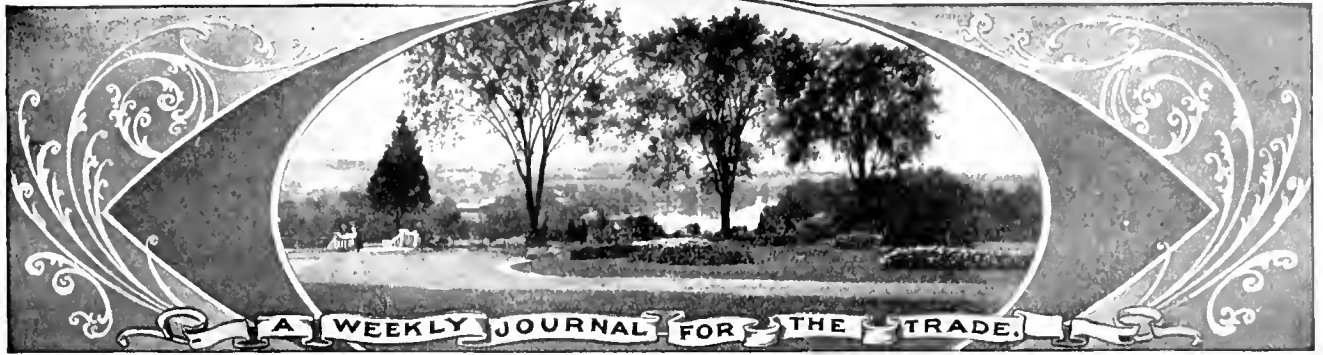
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Vol. XIX.

CHICAGO AND NEW YORK, SEPTEMBER 13, 1902.

No 745.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND
ORNAMENTAL HORTICULTURISTS.

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Annual convention at Brooklyn, N. Y., Feb-
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AMERICAN ROSE SOCIETY.

Annual meeting at call of executive committee,
LEONARD BARRON, 136 Liberty St., New York,
secretary.

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Notes on Aquatics.

The summer of 1902 may be set down as a record breaker, at least for many of us. The month of August, when we usually experience extreme heat, with its consequent results, has passed into history with a temperature record below the normal. While this was most agreeable for man and beast, crops and vegetation in general, it was not altogether right for denizens of the tropics, hence disappointment and partial failure with tender nymphæas in some sections. But 1902 is not a criterion for 1903 and our experience next year may be just the reverse.

On the whole this has been a most satisfactory season and, with the exception of a few of the tender nymphæas, the water lilies have surpassed previous seasons. Hardy nymphæas have simply had an extended season and with the cool nights of August the flowering period has been prolonged into September and even the native varieties in natural ponds are flowering profusely. Nelumbiums were a few days later in opening their first flowers, but they have been profuse and continuous up to the first week of September and many buds are yet in sight and the plants still vigorous.

Of tender nymphæas the day-flowering varieties are all that could be desired and at this date of writing, September 4, numerous fine flowers are in evidence. Nymphaea Mrs. C. W. Ward, a hybrid of *N. gracilis*, has flowers from eight to ten inches in diameter. These are noble flowers, a grand pink in color and standing fourteen to sixteen inches above the water. Other hybrids of *N. gracilis* are equally satisfactory, including *N. Wm. Stone*, dark blue to purple and deep red. This is very floriferous and a single plant at this date has seven expanded flowers and numerous buds in sight. *N. Zanzibaricensis* and its forms are also in prime condition, as is also *N. Capensis*, but these are subjected to bearing a crop of seed and must not be compared with hybrids that produce no seed.

Speaking of hybrids, I cannot omit to mention a new hybrid of *N. coerulea* still in flower. This is *N. Pennsylvania*. The flower is of gigantic proportions, nine to ten inches in diameter, petals one and one-half inches in width. These are numerous as well as large, making a full and perfect flower. The color is blue, a few shades deeper than *N. pulcherrima*, and like the latter, it is ever-blooming. There are others of this class that will be heard of later.

The tropical night-flowering nymphæas are the only ones that have not come up to their usual standard. The temperature of the water during August has frequently been near the 70° mark and occasionally below; nevertheless we have had a number of flowers ten inches in diameter on such varieties as *N. George Huster*, *N. O'Marana* and *N. dentata*, but the plants have not made such vigorous growth, consequently fewer flowers.

Here in the same pond is a marked difference between the day and night-flowering tender nymphæas, the day-flowering varieties surpassing the night-flowering, proving that they require but a normal temperature to grow satisfactorily and that the night-flowering varieties require our usual summer temperature, a difference of about 10°.

The nymphæas referred to above are grown in the victoria pond and doubtless a number of readers of these notes who have not seen our ponds this summer will presume that the victorias have fared even worse than the nymphæas, but this is not the case. Sceldom, if ever, have victorias done better and during August, as in July, we have constantly had fresh flowers and a number of leaves have exceeded five feet in diameter, not including the turned up rim of six and seven inches.

The flowers just now are not so deep in color as in the early part of August, but the flowers are at their best the first evening on opening, when the rich pineapple fragrance may be inhaled hundreds of feet away from the plants. Just now the oldest leaves show the effect of the cool, damp nights, but there is every probability that the plants will continue in fair condition until the end of the month, producing a number of flowers, as there are numerous buds in sight, especially on *V. Trickeri*.

The system of culture has previously been noted in these columns, that is in applying artificial heat for about a month after planting out, which was in the latter end of May and during June. The latter month was the critical stage and plants without artificial heat succumbed, while those with heat made steady progress and in July, when protection and artificial heat were removed, were able to stand a lower temperature with impunity.

Nelumbiums, lotuses in variety, have also been very satisfactory, with fine foliage and an abundance of beautiful flowers, unsurpassed by any other

aquatic plant. As a rule no class of plants gives such a wealth and profusion of flowers during the year as aquatics, not omitting the minor plants, such as *limnanthemums*, *limnocharises*, *sagittarias*, *pontederias* and the many sub-aquatic plants.

Yet apparently we are only beginning to know the value of these plants and their simple methods of culture, but they are steadily gaining in favor and popularity. There is an ever-increasing demand for plants and inquiries as to different varieties, when and how to plant, etc., which attests this fact. There is also an increasing demand for cut flowers. The supply has not been equal to the demand this summer and the choicest varieties have been sought after, also lotus flowers in quantities.

Seedling nymphæas are more or less unsatisfactory and disappointing. Plants are easily raised and with care will flower the first season, but the progeny are variable and one is apt to blame the seedsman. In the first place, it is mostly species that produce seed; but few hybrids produce any. These are mostly tender varieties, such as *N. O'Marana* and *N. Geo. Huster*, but as these are both hybrids of *N. dentata* it is very probable that there will be flowers of all shades of color from white to crimson and perhaps five to ten per cent of good flowers.

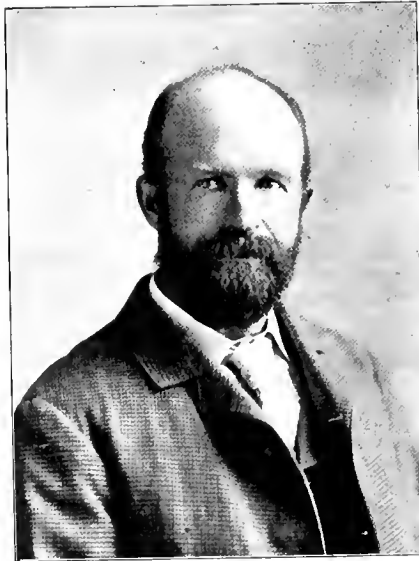
While plants can be readily raised from seed and are comparatively very cheap, it is very uncertain and unreliable in most cases, and any person desiring a certain nymphæa, not a species, will do well to secure a plant. Hybrids, both hardy and tender, that produce seed cause a great deal of trouble and persons raising seedling plants must not be disappointed if the plants are not just like the plants that produced the seed; the chances are that they will not be, especially if they are hybrids.

WM. TRICKER.

Thomas Manton.

Thomas Manton, the newly elected president of the Canadian Horticultural Association, was born in Hendon, near London, England, on September 1, 1851, and gained his first experience in gardening with the late Jas. Wier, at Hampstead, and on his father's place at Highgate. At the age of 21 he directed his movements toward Canada, where he located with R. R. Dobell, the railroad magnate of Quebec. One year at this place seemed sufficient, and he left to become gardener for George Brown, of Brantford, Ont., where he was employed two years, after which he served four years with John Macdonald, when he decided to go into business for himself. In 1882 he started a retail flower store on Yonge street, Toronto, with his brother, where for a few years they had a fine trade in cut flowers and plants. In 1888 he gave up the business and started growing plants at the present place in Eglinton, where they have a fine collection of orchids, ferns and palms. Mr. Manton is a thorough plantsman, and is no doubt the premier of Canada in this respect. He has been the first to take hold of any new introduction in hardy herbaceous or other perennial plants, which constitute a large section of the business, and theirs is the finest collection in this locality. Mr. Manton is an authority on orchids. It is practically the only commercial place in the province where they are grown to any extent. Palms, ferns and violets form the larger part of the miscellaneous stock which is grown under the 12,000

feet of glass at the place. Mr. Manton has been a member of the Toronto Gardeners' and Florists' Association since its start and, beside being president, has always been on the executive committee, where his practical suggestions have always been highly appreciated. The Toronto Horticultural Society has also claimed him as a president. He was chairman of the trade exhibit committee at the S. A. F. convention held at Toronto in 1892, and as a remembrance of his highly appreciated services, was presented with a gold watch by the mem-



THOMAS MANTON.
President Canadian Horticultural Association.

bers of the convention committee, and which he prizes highly. As president of the C. H. A. his influence is sure to work to the everlasting benefit of the organization. H. G. D.

Canadian Convention Notes.

The Hamilton parks were in fine condition for the occasion.

For a smooth tongue and winning way commend us to Wm. Algie.

The proceedings at the various sessions were marked with an earnestness that was most laudable.

Pierson's new fern and King's greenhouse construction were the most interesting of the exhibits to trade visitors.

Credit for the fine exhibition is largely due to the efforts of C. M. Webster, J. O. McCulloch, S. Aylett, T. Lawson and John Fox.

W. Cromwell Gurney was the author of the paper on "Greenhouse Heating," not Edward Gurney, as printed in our issue of September 6.

If the next convention is held at Toronto during the Industrial Exhibition, the visitors will have a hot time scrambling for hotel accommodations.

It seems there would have been a somewhat larger trade exhibition if some arrangements had been made with the customs officials for the free entry and return of exhibits from the United States.

READING, MASS.—The sixth annual exhibit of the Reading Amateur Gardeners' Association was held in Masonic Hall on the afternoon and evening of September 8.

Greenhouse Heating.

BY W. CROMWELL GURNEY.

[Read before the Canadian Horticultural Association at the Hamilton convention, September 3-5, 1902.]

To maintain a summer climate in a greenhouse throughout the long Canadian winter is the problem confronting us. Such a climate must be uniform in moisture, temperature and freshness, and to attain the best results the end in view must not be lost sight of in constructing any part of the house.

Local conditions themselves are most important; the situation of the houses, whether on the south side of a hill, which way they face, whether or not the houses themselves are quite level, all these as well as other points must be considered in each case, and every care taken before even the original drawings are put on paper.

Again, the internal construction of the benches is most important in relation to the results to be attained, and in this connection it may be said that after finally settling on the number of benches desired, by all means make them as permanent and substantial as possible.

The most desirable benches the writer has ever seen were installed in the J. H. Dunlop greenhouses in Toronto. The side walls, of brick, support closely laid horizontal tile pipes cemented together. On these tile pipes was laid the soil. The effect is at once apparent. The air of the house is conducted through the tile pipes to the very center of the beds. As the tile is porous the earth is aerated and kept at a uniform temperature throughout. Such an arrangement would be subject to no depreciation, and if the heating pipes were attached to the brick walls there would be no danger of any sagging in the pipes, which occurs so frequently when pipes are clamped to the sides of wooden benches, and so forth.

Care should be taken to provide for the growth of the industry. New houses will be added in coming years, and they must not shade present houses or be shaded by them. The boiler room and smoke stack should all be on a scale to admit of additional boilers being twinned to the original installation. It can be truthfully said that nothing in a greenhouse is more important than the smoke-stack. If it is too small it will provide poor combustion, and consequently large fuel bills. It will compel the boilers to throw off coal gas and give insufficient heat.

In keeping future expansion in view, it should be remembered that if two or more greenhouses are to stand side by side, and are to be kept at the same temperature, it can be done with much less fuel if the partition between them be taken down, throwing their total cubic capacity into one.

Again, in considering the future, build as substantially as possible. Substitute light iron trusses for heavy, light-obstructing, wooden posts and beams. The iron does not breed pests and does not rot out. Although having no relation to the heating it can do no harm to say a word on selecting a suitable "economic" situation.

Many hundreds of dollars can be wasted if a greenhouse is located so that it is difficult of access for supplies. Consider how far you are from shipping facilities, both express and freight; how far you have to haul your fertilizer, earth, sand, coal, and so forth; how far you have to haul your refuse away, your ashes and impoverished earth. Study your water supply. Is it likely to fail



MEMBERS OF THE CANADIAN HORTICULTURAL ASSOCIATION, AT HAMILTON, ONT., SEPTEMBER 3 TO 5, 1902.

during a bad drought? These questions and many others must all be carefully considered before work is commenced.

There are two modern systems for heating greenhouses, namely, steam and hot water. In the writer's opinion the former system is undesirable compared with the latter, except for very large installations involving many houses heated from a central boiler plant with fireman in constant attendance on the boilers. But for small and moderately large greenhouse installations the hot water system is very much to be preferred for the following reasons.

1st.—Greenhouse men who have tried both systems are almost unanimous in agreeing that better and quicker plant development is possible with the hot water than the steam system, and this is just what we would naturally expect when considering the low temperature of the hot water pipes in comparison with the roasting heat of the steam pipes. The hot water system undoubtedly produces a milder quality of heat.

2nd.—The attention required for a modern hot water boiler in all but zero weather, and with a properly designed system, should not represent more than three visits to the boiler room per day, whereas a steam boiler of the old horizontal return tube type practically requires constant hourly attention, not only for stoking but to keep an eye on the water level, and so forth. A modern water tube steam boiler fitted with automatic damper regulator, and so forth, should receive attention at least every three or four hours.

3rd.—Should the fire be allowed to die out in a steam system all heat would vanish at once from the greenhouse pipes. Under similar circumstances the hot water system could retain sufficient heat in the circulating water to give the operator time to start a fresh fire before much damage could result.

4th.—There is no danger from a well designed or even moderately well designed hot water system, while in a steam system there lurks the danger of allowing the boiler to go dry, with the consequent explosive results. It may be argued that even under such circumstances some water tube boilers are quite non-explosive, and such is the case, but the man who allows his boiler to go dry seems very seldom to be the man who uses a non-explosive water tube boiler.

Having tried to explain the advantages of the hot water system, it remains to describe the particular method of designing and piping such a system to obtain the best results. In the first place, if the apparatus is to be installed by the owner of the greenhouse himself, he should carefully make drawings showing in plan and elevation each pipe and fitting in the installation. This is most important, as a little time spent on such plans will save days of lost time later on.

The amateur steam fitter must equip himself with at least the following tools: Pipe cutters for from 3/4-inch to 2-inch pipe, stocks and dies to thread pipe from 3/4-inch to 2-inch, two Stillson wrenches to handle pipe up to 2-inch, one large monkey wrench, hammer, screw driver, brace and bit, saw and chisel.

To figure the amount of radiation necessary to obtain the required temperature, the following rule has been found to give very satisfactory results, assuming an out-of-door temperature of zero, Fahrenheit: Divide the square feet of glass surface by five for 45° of heat and the result is the square feet of radiation required. For 50° of heat divide by four and one-half, for 55° divide by four, for 60° divide by three and one-half, for 65° divide by three and one-fourth, for 70° divide by three, and in each case the result is the number of square feet of radiation required.

It is always best to select the last named figure intended to provide for 70° as even if a much lower temperature is all that is required, it can readily be obtained by damping down the fire, and so saving coal.

Having divided by three the square feet of glass surface in the house to be heated, we have as a result the square feet of radiation necessary and we must now determine how much pipe is necessary to equal this amount of radiation. Two-inch pipe throughout the whole establishment gives excellent results, as it contains sufficient water to hold the heat a reasonable time and not enough water to make the circulation sluggish.

To obtain the amount of 2-inch pipe that is equivalent to a given area in square feet, divide the given area by .62. For example, let us assume a house is 100 feet long with two slanting roofs each ten feet deep; we would have 2,000 square feet of glass in the roof, and let us say 100 feet of glass in both ends, or in all 2,100 square feet of glass. Divide this amount by three and we obtain 700 square feet as radiating surface. Divide this amount by .62, and we obtain the quantity of 2-inch pipe required, 1,130 feet. To arrange this amount of 2-inch pipe we would put five rows on each side wall of the house, one over-head 2-inch pipe to feed each of these rows, two 2-inch flow pipes close up under the roof.

A useful table giving the surface on a lineal foot of various sized pipes is as follows:

Size of pipe.	Sq. ft. in one lineal foot
1-inch	.31
1 1/4-inch	.38
1 1/2-inch	.50
2-inch	.62
2 1/2-inch	.75
3-inch	.92

Going back to our example, we now have twelve rows of 2-inch pipe each 100 feet long, or 1,200 feet of 2-inch pipe.

The rows of pipe must be so sub-divided that no one 2-inch pipe will have to supply more than about 300 square feet of surface or about 500 feet of 2-inch pipe.

The boiler should be set as low as possible, the lower the better the results. Rising from a flow header of the boiler we take our two 2-inch vertical flow pipes upward till about two feet from the level of the glass above them, thence they run horizontally, rising till at the far end of the greenhouse they are close up to the glass. The sharper they rise the better, but in very low houses where a great rise is impossible, a minimum rise must be provided of one inch in every ten feet, or in a 100-foot house, a total rise of ten inches.

At the highest point of the circuit an air vent is inserted in the pipe by drilling and tapping a 1/8-inch hole, and then the down pipe is run into the branch header. The final joint in each of the 2-inch pipe coils between the two headers is made as follows, with a right and left joint:

Screw together the pipes, one length after another, till close to the boiler end of the house. Cut off pipes till all five are even, or the same length; screw on a right and left elbow to each. Now screw five pieces of pipe into the return header, all the same length, put an ordinary coupling on the end of each, and bring

If any valves are inserted to cut off part of the radiation, they should be put in, say, two of the five pipes in each coil. The valves must be gate valves. If disc valves or globe valves are used failure is almost sure to result.

And now we come to the very important question as to the selection of a boiler. If everything in connection with the apparatus is of the best, and properly installed, an unsuitable or badly constructed boiler will ruin the usefulness of the whole apparatus. It is natural that the writer should be prejudiced, but the grower who keeps the following points in view cannot go far wrong:

1st.—The fire pot must be larger at the bottom than at the top, to prevent lodgment of effete matter and consequent insulation of the fire from the heating surface.

2nd.—The grates must be of such a character that clinkers will not jam and destroy them, and the grate bars must be easily removed from and replaced again in the heater.

3rd.—All heating surfaces must be as close as possible to the fire without interfering with combustion space.

4th.—The heater must be a reasonable height.

5th.—The circulation must be positive within the boiler; that is, the water must

have one course to travel only, and not be allowed to find its way out by any haphazard channel.

6th.—Provision must be made to avoid expansion and contraction cracks. The grower can only find out if such provision is made by inquiry as to whether other people have had such troubles with the heater under consideration.

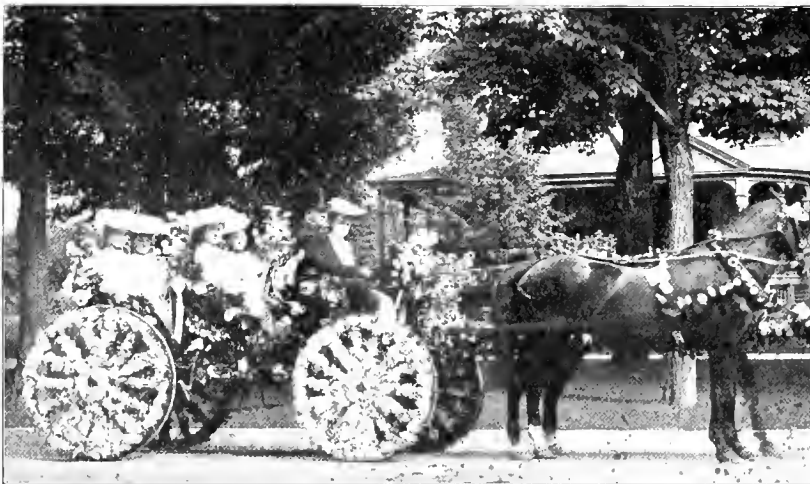
7th.—In selecting the size of boiler add twenty-five per cent to the square feet of heating surface on your complete job, and then turn to the manufacturer's catalogue to find a boiler of that capacity. This twenty-five per cent is necessary, as the cooling effect of glass surface close to the pipes is far more pronounced than were the surface to be heated placed in a warm house.

The following are a few practical suggestions that may be useful on the work: Use lots of red lead in making joints. Keep on screwing up a joint after you are quite sure it is tight. Put your boiler at least so low that its return header is on the level of the ground. Keep the tank well above the highest point on your piping. Be sure that your air vents are at the highest point, not near it, but at it, on each flow pipe. All the fittings and headers on the above job will be tapped right excepting ten right and left elbows and ten right and left nipples. Don't forget to put a drain cock at the lowest point of the apparatus, usually the return header of the boiler. Don't leave the apparatus filled with water on a frosty night, and without any fire. In firing up for the first time use a slow fire and note that all mains get their supply of hot water. If you have any leaks fix them, they very rarely fix themselves. A small leak in the fire box of the boiler will generally take up but very rarely if in the piping.

Decorated Vehicles.

This is the season of the floral parade, now an established feature of the autumn festivities in so many communities, and the general practice nowadays of using natural flowers, instead of the artificial ones so commonly used at the inception of the floral fete, is giving the florists opportunity to use up quantities of outdoor flowers to good advantage and reasonable profit.

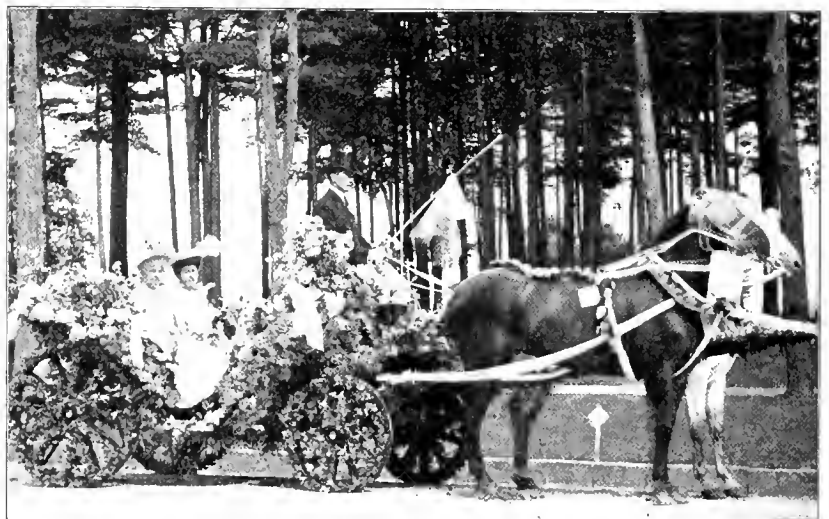
At no place in the country is the floral parade a more firmly established feature of the season than at Saratoga Springs, N. Y., where it makes the florists an



CARRIAGE DECORATED BY JOHN RALPH, SARATOGA SPRINGS, N. Y.

these couplings up close to the above mentioned right and left elbows. Now take a right and left nipple and see how many turns it will enter the right and left elbow before it tightens. Now try the other end in the couplings. Say in the first case it made six revolutions before tightening, and in the latter four, at once screw it the difference, or two revolutions into the elbow before starting the other end into the coupling, and then both ends will screw up tight simultaneously.

Now bring the 2-inch return pipes back to the boiler, dropping steadily. The side wall coils must drop toward the boiler as described in speaking of the flow pipes. The final connections of the returns to the boiler had better be made with unions. From the return header of the boiler run a 1-inch pipe to the expansion tank, which must be placed as high as possible in some place where it will be secure from freezing. An ordinary barrel will do, but a suitable tank with glass and cocks looks better and costs less than \$5 complete.



CARRIAGE DECORATED BY JOHN RALPH, SARATOGA SPRINGS, N. Y.



SWEET PEAS GROWN BY GEORGE BARKER, GARDENER TO A. F. ESTABROOK, SWAMPSCOTT, MASS.

annually increasing amount of business. This season was no exception to the rule of steady improvement in the decoration of the vehicles in the parade, September 4. There were many handsome ones, photographs of two of which, decorated by John Ralph, are reproduced herewith.

The carriage in the lower illustration is covered with fine trusses of hydrangea bloom, with pink asters and pink ribbon, the wheels being covered with pink gladioli. In the other picture hydrangeas are seen on the wheels, laurel and white asters on the body of the vehicle, blue and white ribbon being used.

Luxuriant Sweet Peas.

The accompanying illustration is from a photograph taken in the garden of A. F. Estabrook, Barberry Lodge, Swampscott, Mass. George Barker, the gardener in charge, gives the following as his method of cultivation for sweet peas:

I dig a trench about ten inches deep, put in it a layer of cow manure and then about two inches of soil, made firm by tramping. Upon this I sow the seed, in a single row, the seeds three inches apart. After the plants are above ground soil is gradually pulled up to them until the trench is filled level. For supports I use a trellis five feet high, of chicken wire on posts. The photograph was taken August 29, showing the vines in fine, healthy condition and bearing a good crop of flowers. The varieties are Emily Henderson and No Plus Ultra. The seed was sown March 29. A liberal supply of water is given when needed. In the early part of August a dressing of cow manure was worked into the soil with the spading fork.

Summer Flowers for Florists.

BY WM. HUNT, OF GUELPH, ONT.

[Read before the Canadian Horticultural Association at the Hamilton convention, September 3-5, 1920.]

The commendable and increasing demand on the part of the flower loving public during the last few years, for a greater display of taste in the more natural arrangement of flowers, necessitating their more lavish use in the make-up of designs and floral decorative work in general, makes it imperative on the part of the florists to consider well as to how they can best supply the wants of their customers in this respect.

The grouping of palms and foliage plants, as well as the very general use of large quantities of fern fronds, asparagus, and so forth, for room decorative purposes often requires the use of large quantities of flowering plants and cut flowers to brighten up the density of these masses of green. Bright-colored foliage plants, such as crotons, Pandanus Veitchii, and so forth, are admirable for this work, but they are not always available and cannot be used in many positions even where they are to be had.

Roses and carnations may, of course, usually be obtained, but these cannot always be had at prices that will warrant their use except for the finer points of florists' work. Outdoor flowers can usually be had in summer, but with the failure or partial failure of the sweet pea and aster crops, even these during the hottest weather in summer are often very limited in quantity and poor in quality, and many kinds of outdoor flowers are too common almost to allow of their being used satisfactorily.

It seems to me that the empty benches so commonly seen in many florists'

establishments, could be more profitably used than they are, to supply this demand for a better class of flowers than is often obtainable outdoors during the hot summer months.

Japan lilies, more especially *Lilium speciosum album*, *L. rubrum* and *L. auratum*, as well as other varieties of this class can be and are grown in large quantities, but these sometimes, like our at one time reliable and beautiful Easter lily, have of recent years become more fickle and uncertain in their character, and are at the best too costly, except for the very best class of work.

Although it is impossible to attempt even to fill the place of roses and carnations, as grown at the present day by our florists, or the more chaste and delicate beauty of the lily, there are some plants that I have found most useful as accessories and auxiliaries to these indispensable florists' flowers. I have reference more particularly to begonias.

For many years past I have grown *Begonia Weltoniensis*, *B. MacBetti* and *B. Weltoniensis alba* in as large quantities as desired, and although at least two of these varieties have been known to most of us for over a quarter of a century, they cannot in my opinion be surpassed by any of our newly introduced varieties, taking ease of culture, handling and keeping qualities, as well as profuseness in flowering habit into consideration. By wintering over a few old plants and starting them in April or May and propagating as soon as the cuttings are ready, a fine batch of plants can be had early in August, that will furnish a good supply of either bloom or pot plants, at a time when flowers and flowering pot plants are scarce.

By drying the plants off gradually when they are through flowering, and putting them on a front shelf under the greenhouse benches where the drip does not bother them, or on a back shelf in the greenhouse, or even in a warm potting shed, these begonias will keep splendidly, and occupy no valuable winter space. I have found two-year-old plants profitable, as they can be grown on into 6-inch or 7-inch pots, but after the second season I have not found the keeping qualities as reliable as in younger stock.

Begonia Weltoniensis is a splendid bedder and succeeds well in almost any position, in light soil. Fairly light soil should be used for pot plants of this begonia. Other newer varieties such as *Begonia Vernon*, *Bruanti*, *Erfordii*, *Ingrami* and other summer-flowering types of *Begonia semperflorens* will not compare favorably in my opinion to the two varieties first mentioned except, perhaps, that these latter can be more easily raised from seed than the *Weltoniensis* begonias. The seed, however, should be sown early in the spring, about February, to secure early flowering plants the same season.

The new hybrid type of *Gloire de Lorraine* begonia, although beautiful and floriferous at almost all seasons, can scarcely be considered as a summer begonia. Although several new types and varieties of *Begonia semperflorens* have recently been introduced, at present there is still room for an ideal summer-flowering begonia for florists, a want that may possibly be filled, as begonias are very susceptible to cross fertilization, a fact that many of our leading florists are taking advantage of, as is shown by the introduction of so many types and varieties of this beautiful and useful class of plants. But the ideal begonia is yet to be raised and, like all other classes of beautiful plants, we shall never know when the highest possible point has been reached.

I have been pleased to learn during the last few days that the three varieties of begonias mentioned, *Weltoniensis*, *Weltoniensis alba* and *MacBetti* are again coming into popular favor and in my opinion no florist should be without

And now a word on outdoor flowering plants in summer. Annuals are the prettiest, most varied and, unfortunately I must add, in many cases the most fickle and uncertain class of plants grown. It is gratifying to know, however, that there has during the last few years, more especially on the part of seedsmen and seed growers, been a greater effort made not only to introduce new species, but to improve generally the various strains and types of these useful adjuncts to a florists' establishment.

Time will not permit me to more than touch on the subject of annuals, as it is unnecessary for me to even mention the staple varieties of many of them, such as asters, sweet peas, mignonette, nasturtiums, *Phlox Drummondii*, cosmos, as well as *antirrhinums*, *petunias* and *verbenas*, the last three being now generally acknowledged for all practical purposes as annuals, as all of these are well known to all classes of flower lovers.

But there are a comparatively few new varieties and types that may perhaps not be as generally known and cultivated as those I have mentioned. Take first of all the annual *chrysanthemum*. The beautiful colors and markings, as well as ease of culture, and good keeping qualities well entitle them to the notice of all florists. For table and room decorative work, more especially, these annual *chrysanthemums* will be found to be invaluable. By sowing the seed early in the season, their decided and pretty flowers can be had early in August and in September in abundance.

Other species of plants that will furnish useful material for florists' use are the *malopes* and *lavateras*. These improved types will be found of great service for decorative purposes and for loose cut flowers. *Malope grandiflora alba* and *Malope grandiflora rosea* are the two varieties most useful to florists. *Lavatera rosea splendens*, *L. alba splendens* and *L. trimestris* are good varieties, their large, showy mallow-like flowers being often several inches in diameter and for a convolvulus-shaped flower their keeping qualities are very good, as I have kept the flowers and foliage quite fresh for

gardens by the too general use of masses and rows of yellow flowers, such as *Rudbeckia laciniata*, and the deep-colored, heavy-looking sunflowers. Several of the last named, very much lighter shades, make very aesthetic flowers and are quite worthy of a place in a florists' collection of annuals, even though they have to be called sunflowers.

There is one more annual I would like to mention, *Argemone grandiflora alba*, or Mexican poppy. Although the growth is coarse the abundance of pure white-petaled flowers will especially commend it to florists, as it gives an abundance of bloom during August if sown in the open border in April. This variety has a habit of closing its flowers when on the plant at night and during dull weather, but when cut it remains open constantly. Although the stamens in the center of the flower are yellow it is of such a soft shade that this feature is not as objectionable, as it sometimes is for a florists' flower. For short time work it ought to be of value to florists as large white flowers are so scarce oftentimes before the asters make their appearance.

I should like to have said a few words on perennials but time will not permit except to say that the improvements in this class of plants are equally as noticeable as in annuals and no general florist's establishment is complete without a collection of these useful and inexpensive plants. I have a few specimens of the varieties of plants that I have mentioned, among which will be found *Helianthus cucumerifolius*, *H. decapetalus nanus*, the form and soft lemon yellow color of which well recommend them to the notice of florists as useful summer-flowering varieties.

I would like to mention another class of plants that could be made of more service to florists in summer than they are at the present time. I have reference to hardy climbers, more particularly the clematises. The beautiful colors and shades of those that are now offered, from the pure white of the *Duchess of Edinburgh*, *paniculata* and *Henryi* to the deep lavender color of the *Standishii* or to the intense purple of the more common *Jackmani* will allow of no excuse for florists planting around and about their establishments, as we often see, the common varieties of *ampelopsis* and *clematis*.

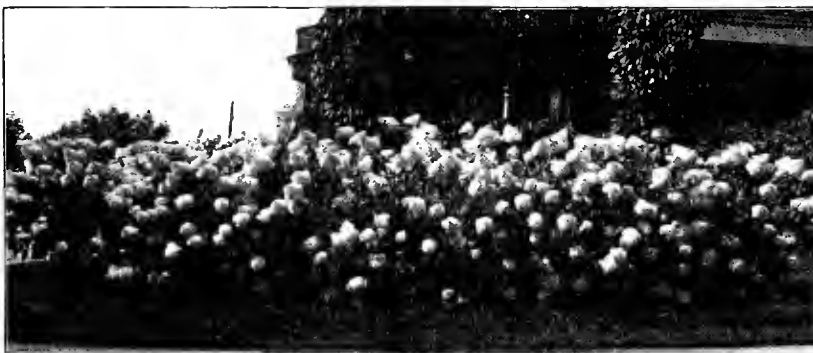
The Hardy Perennial Border.

BY ANDREW ALEXANDER, HAMILTON, ONT.

[Read before the Canadian Horticultural Association at the Hamilton convention, September 3 to 5, 1902.]

The earliest and sunniest recollections I have in connection with flowers hover over the borders and beds of my childhood home, which were filled exclusively with old-fashioned perennials. There were lilies, stately and tall, in large groups, great masses of sweet william, primulas in endless variety, scarlet lychnis, saxifragas, phloxes, peonias, hollyhocks and many others too numerous to mention.

These were all interesting as they one by one opened their blossoms in the floral procession of the year, but to me, there was, and is still, the yearly miracle of their re-awakening, to watch the tips piercing the soil and the varied modes of unfolding their first leaves with such a variety of color, from the tenderest green to deep crimson, which is an added pleasure not derived from ordinary bedding plants. I consider this a strong argument for the cultivation of these hardy flowers.



HYDRANGEAS ON THE LAWN AT A. F. ESTABROOK'S, SWAMPSCOTT, MASS.

them on his greenhouse benches in summer, as their many good qualities for decorative purposes in general still entitle them to a place in the front rank of this numerous and useful class of plants. Many florists who have dropped them from their lists are again taking them up, ample evidence that they are still of service, and that there is nothing yet to surpass them for general usefulness among summer-flowering begonias.

three days under conditions similar to what they would receive as cut flowers for decorative work.

Another class of annuals coming into favor is the annual *rudbeckia*. The beautiful brown and dark crimson markings at the base of the petals of these flowers make them more acceptable than they otherwise would be, taking into consideration the almost objectionable and overdone appearance of many flower

While I do not say that hardy perennials will ever take the place of ordinary bedding plants for the decoration of public or private grounds, or can be used for the striking color effects secured by the geranium or coleus and others, still I assert that anyone, whether possessed of only a small garden or of acres, can have a succession of bloom from early spring to autumn.

We have varieties suited to every situation and to nearly every kind of soil. Not only so, but when once established they stay forever, if we are fairly good to them, increasing in bulk and beauty from year to year. We have them gay as the oriental poppy and showy as the pæonia, while many of them are excellent as cut flowers.

There are single and double flowering pyrethrums, so many beautiful hybrids of which are being introduced. There is the iris family, with its varied additions, all exquisitely beautiful, and the aquilegias in infinite variety, from our own native sort to the Rocky Mountain one with its heavenly blue and immaculate white. The campanulas are all dainty and general favorites. The larkspurs give us stately growth and colors from pure white through every gradation to blue and red. Many of these hardy plants are very fragrant, such as the sweet valerian and many others quite as hardy.

I have no intention of wearying you with lists of names of these hardy plants. The best and most useful list that I have seen is that issued by the Experimental Farm, at Ottawa, naming 100 varieties, compiled by Mr. Macoun, the horticulturist there in 1897.

Just a word about the border itself. Hardy perennials I find thrive best in good soil with plenty of rotted leaves worked into it. The thrift of the plants in such soil is so marked as to warrant them getting it. These plants, many of them, increase so fast and spread so much that they require to be lifted, divided and replanted every three or four years. Some of them, such as the perennial phloxes, so exhaust the soil in their immediate neighborhood that they are better if their position is changed every two years. The pæonias and some others are better not to be moved.

Every fourth year I trench my perennial borders. I proceed as follows: I take out a trench two spades deep and in the bottom put two inches of top soil, on this I put a good coating of fresh manure, tree leaves or the product of a rubbish heap of vegetable matter of any kind, then I throw soil upon this to the depth of a spade and on this I spread some more well rotted manure or humus, filling the trench with soil, and so I proceed until I reach the end of the border. This really means the turning upside down of the whole border to the depth of about eighteen inches and enriched with two layers of manure.

Planting is best done in the early spring. It is better to have good clumps or masses of the best of these perennials than to have little bits of everything you can lay hands on. I would recommend a very liberal planting of the hardy bulbs, not lilies only, but the scilla, the snow-drop, crocus and the narcissus family should be fully represented. I also make a liberal use of many of our native plants.

We sometimes hear the complaint that a perennial border is an unkempt and unsightly affair as compared with the trim beds filled with greenhouse plants. It is if not cared for. Plants needing sup-

port should have it early and all flowers that are fading should be removed, and the soil between the plants kept stirred from time to time.

It would be well if the commissioners of public parks gave this matter some attention and planted borders of these perennials so labeled that the public might see and choose for their own gardens and be instructed as well as interested. I urge the more general cultiva-

tion of hardy plants, first, because it is interesting to watch their development and because there is a touch of home in them, in the coming of the truly hardy varieties of flowers that seem to defy all kinds of abuse and quickly respond to good care, and we watch for them as eagerly as the seasons come and go; second, because the first cost is less than of the tenderer and more aristocratic bedding plants; third, because of the greater variety and the longer flowering period; fourth, because they are less trouble than the more tender sorts and increase from year to year.

named J. F. Huss and golden variegated privet. From H. A. Dreer came two tanks of splendid aquatics in which were thirty varieties of nymphæa, including the new Pennsylvania, a lovely blue shown for the first time. A fine tank of aquatics was contributed also by Oakes Ames.

Mrs. Gardner's group of begonias and saintpaulia is the only display of greenhouse flowering plants outside of the



EXHIBITION OF PACIFIC COAST HORTICULTURAL SOCIETY, AUG. 14 TO 16, 1902.

tion of hardy plants, first, because it is interesting to watch their development and because there is a touch of home in them, in the coming of the truly hardy varieties of flowers that seem to defy all kinds of abuse and quickly respond to good care, and we watch for them as eagerly as the seasons come and go; second, because the first cost is less than of the tenderer and more aristocratic bedding plants; third, because of the greater variety and the longer flowering period; fourth, because they are less trouble than the more tender sorts and increase from year to year.

The Boston Exhibition.

The annual exhibition of the Massachusetts Horticultural Society is in progress as we go to press, open from Thursday till Sunday night. There is the usual display of stately groups of tropical decorative plants in which are specimen ferns, palms, dracenas, begonias and crotons such as are rarely seen outside the most pretentious private establishments. The largest contributors are J. S. Bailey, E. S. Converse, Mrs. J. L. Gardner, K. & J. Farquhar & Co., A. F. Estabrook and W. H. Lincoln.

Special croton exhibits are made by E. J. Mitton, J. S. Bailey and Mrs. Gardner, the former leading with seventy-five superb plants in 6-inch pots, but the crotons show the effect of the cool summer in the lack of their full brilliance in the color of the foliage.

J. E. Rothwell and Lager & Hurrell make fine exhibits of blooming orchids, the latter showing as specialties Cattleya Hardyana and Lælia grandis tenebrosa Summitosa. H. T. Clinkaberry is exhibiting the American seedling Zygopetalum Roeblingianum.

W. A. Manda shows a seedling dracena

orchids. Yamanaka & Company make an attractive showing of Japanese dwarfed plants and curios. The section devoted to garden bloom is radiant with thousands of dahlias, zinnias, asters, marigolds and so forth.

Among the dahlia contributors are such well-known enthusiasts as Burt, Lothrop, Winter, Symonds, Strouthers, Alexander, Winsor and Lawrence. The cactus varieties are shown in increasing proportion and quality. Blue Hill Nursery and Shady Hill Nurseries each make superb displays of hardy herbaceous flowers, the labeling of the former being especially creditable.

There is a fine array of Groff's hybrid gladioli which attracts much admiration and Messrs. E. Johannsen and J. Lawson each stage a pretty arrangement of small plants. Col. Chas. Pfaff, Mrs. H. L. Higginson, Mrs. E. M. Gill and F. J. Rea are also exhibitors in various classes.

As usual John Ash hypnotized all beholders with his magnificent hothouse grapes. The fruit and vegetable section showed the regulation high cultural excellence. As usual, also, the arrangements as to general effect and means of entrance and exit are far from admirable.

Floral Exhibits at Rockford.

The Winnebago County Fair Association held its annual exhibition at Rockford, September 2 to 6, the floricultural department forming an important feature. The display of cut flowers would have done great credit to a more pretentious flower show. I have never seen better in the whole of my experience.

One exhibit contained no less than sixty-eight distinct varieties of petunias. Among the single kinds were varieties closely resembling dipladenias in size and

coloring. Others were like giant pink fringed Chinese primroses. The flowers, with green margins, some fringed, and others smooth, with blotches of deepest rose, crimson and purple, were equally conspicuous. An immense, smooth, round flower five inches in diameter, of the deepest cobalt blue (not purple) reminded one of a giant morning glory.

These were only a few of the distinct single kinds. The double varieties presented everything that seems possible. There were hollyhock shapes, peonia shapes and every known variety of fringing. Those of the green ground, blotched, both plain and fringed, make one think that some of the petunia family are caricaturists. A variety covered with hairs like the Boehmer chrysanthemum, pink and white, probably is the latest departure.

The display of nasturtiums came next. Some forty varieties were shown and made a brilliant and beautiful display. The later introductions must very soon become as well appreciated as the later introductions of sweet peas have been.

Then came the dianthus and perhaps no better or greater variety has been exhibited, the intense claret and ruby-red colors being most remarkable. The phloxes, perennial and Drummondii, were also very good. So were sweet peas, verbenas and pansies, and there were some fine exhibits of vegetables.

Mr. Buckbee is a very active member of the association. His many friends will be pleased to learn that he is surely recovering from the accidental fall he met with last winter. A visit to the greenhouse department found Charley Johnson as modest and unassuming as ever. There are five or six houses of chrysanthemums that are in the finest possible condition. There will be something doing from Rockford in November. Carnations are in equally good condition. The planting from out of doors began July 17 and most of the plants were housed before August 1. There is no stem rot or rust or spider. A 200-foot house of American Beauties and one of the same size of Bridesmaid are far above the average.

JOHN THORPE.

The Toronto Exhibition.

The horticultural display at the Toronto exhibition, in comparison, hardly comes up to last year. The wet and dark weather of the past season was not beneficial to crotons or other highly colored foliage plants, consequently the large groups have not the brightness which usually catches the eye so quickly. In point of number and arrangement nothing is lacking, as each plant is placed to show its own individuality to advantage, and the specimen cycads, kentias and phoenix are plants which would add to any collection. William Wilshire, of Montreal, was judge of this section, and the competition was keen in most classes. His decisions were generally very satisfactory. In the three sections for stove plants in flower George White and Horticultural Gardens took firsts. For caladiums, crotons and dracenas, Exhibition Park, Horticultural Gardens and Central Prison each took one first. In the five sections for ferns Exhibition Park took three, Manton Brothers one and Central Prison one first. In begonias, fuchsias and other soft-wooded stock, George White was most successful. In lilies Grainger Brothers took first. In palms and cycads Central Prison took two, Manton Brothers one and Exhibition Park one first.

In the next section, for best group of plants, most tastefully arranged, Horticultural Gardens came first with a very handsome group, each detail being artistically carried out, and the award was very deserving. Manton Brothers came second and Government House third. For collection of orchids, Exhibition Park took first, Horticultural Gardens second and Manton Brothers third. For best orchid in flower, Exhibition Park was first, Horticultural Gardens second and Government House third. H. G. D.

Society of American Florists.

Some of the state vice-presidents' reports were published in our issue of August 30 and others September 6. The concluding one is presented below:

New Jersey.

BY JOSEPH B. DAVIS, ORANGE, N. J.

Lying, as our state does, in the direct line of communication between two great cities of America, with four lines of railways crossing the entire state, it finds a ready market for its products in both. This has tended to make it an important factor, horticulturally, floriculturally and commercially.

In the elevated and rocky districts comprising the north and north middle coun-

try the growth of *Cattleya labiata* has been considerably retarded.

The influences which have helped this increase of prosperity are due to the superior organization of the commission trade, assisting the shipments from one market to another, and rendering prices of staples less variable; to the trade press in an increased opportunity of reaching distant points; to the growing love of flowers in those communities where so-called nature study forms part of the school curriculum; to the activity of our experimental station in the use of bulletins and public addresses given by its staff, and to the increased attention of current periodical literature to flower cultivation in the house. One indication of this is the appearance of plant room and conservatory in the new houses now building, even at the seashore, where the use of the house is but for a portion of the year.

The increase of local trade can be clearly traced in neighborhoods where there are active horticultural societies and clubs, whose addresses and exhibitions are frequently society features, and very largely to the influence of our public parks, particularly in Essex, Passaic, Hudson and Monmouth counties, though in the first the matter has been overdone and is suffering a reaction at the present time. Any effort made to further the work along these lines by the S. A. F. must tend to materially benefit, individually, and our standing horticulturally.

While there has been a decided falling off in the small grower (that is under 1,000 square feet of glass), except where



CARNATIONS SHOWN AT SAN FRANCISCO, AUGUST 14 TO 16, 1902.

tries, known as the Newark and Orange mountains and the Palisades of the Hudson, are found many of the largest rose-growing establishments in the country, while the broad, sandy plains of the southern part are favorable to the carnation and growing of nursery stock. We have three of the largest orchid raisers in the country, and our three largest nurseries of trees and ornamental plants have a universal reputation. While closely allied to its two near neighbors, whose market is also ours, we yet have much that is characteristic and individual. Our state has furnished a president to the S. A. F. and helped to officer both it and the rose, carnation and chrysanthemum societies.

For her private estates and the skill of her private gardeners she has always been celebrated, and her parks, though recent, will be visited for the great beauty of their natural scenery and remarkable extent of view. One of these parks, it is said, overlooks one-quarter of the population of our country, and the prospect is limited only by human power of vision.

During the past year the output of roses sent from some of its rose houses to the New York market has doubled. The flowers consist of the usual varieties. Its yield of carnations and chrysanthemums has grown and its trade, from latest reports, is steadily increasing. An advance is claimed in improved cultivation of the orchid so as to control the season of bloom, and orders are reported from outside of the state as far as New Orleans and Chicago, one wedding bouquet last winter returning the grower the sum of \$50. During the past rainy season

saved by a local trade, and also a few florists, this has been compensated by the increase in glass area by larger concerns. The incorporation of one stock company with a capital of \$85,000 is to be noted, as also the phenomenal growth of some of our youngest houses in the trade, notably in decorative plants. There is no reason why, with four of the largest houses, three in the eastern and one in the western part of the state, New Jersey should not largely influence the market in the coming year.

An increased demand for young apple and pear trees for fall planting is reported, even to the extent of exhausting the stock of firsts, and a decided increase in herbaceous plants and hardy annuals, particularly the Japanese iris. There are still three active Japanese firms in our state, but the business in Japanese freak products has lost its grip and now the sales are assisted by the "Japanese ball game," with plants as prizes. Introductions of Japanese products of merit by our own trade are meeting with fair sales.

While we have no public botanical garden, and have received only the most meager state encouragement, the appropriation voted for our State Horticultural Society's display at Buffalo being ridiculously inadequate, yet our agricultural experimental station during the past year has prosecuted its investigations still further into plant diseases and has furnished bulletin and address whenever applied for. One house will be devoted to studying remedies for mildew this coming season, and much space to the crossing of ornamental plants. Much of the energy

displayed is due to the activity of an able superintendent. Attention of legislators should be brought to the importance of our horticultural and floricultural interests to the state, and copies of our proceedings should be placed so as to be accessible to them.

Both our private and commercial houses have been schools in the past and have furnished growers all over the country. At the present time in one of our largest rose houses are young men "doing time" from New York, Illinois, Pennsylvania, Massachusetts and Michigan. While many very interesting papers covering a wide range of subjects have been given before our own societies, and also given by Jerseymen before societies in other states, and duly noticed by the trade press, yet only one published book in the past year is to be reported by a Jerseyman, notably "Live Covers for Country Homes," by Prof. Byron M. Halsted.

Many prizes have been taken during the past year. Among others for merit may be mentioned John N. May, J. R. Mitchell, Robert Simpson, E. Waller, H. C. Steinhoff, Dale Estate, Peter Duff and A. J. Weingarten.

Among those who have introduced new flowers are John N. May, of Summit, Rose Mrs. Oliver Ames, and J. M. Horsburgh, of Elizabeth, a new geranium, named Harriet Cleary. Inventions have been made by Theron Parker, of Harrison, of a glazing point, a tomato support and a folding trellis.

A few have passed away, but since the death of William Macmillan none have been followed with more respect to the

Chicago.

TRADE BRISK AND WHOLESALERS BUSY.—SHIPPING DEMAND HEAVY.—BEAUTIES LEAD BUT ALL ROSES WANTED.—CARNATIONS AND ASTERS MOVE WELL.—FLOWER SHOW COMMITTEES.—NEW GROWER HAS FINE STOCK.—VARIOUS DOINGS IN THE TRADE.—PERSONAL AND OTHER NOTES.

This week's business has given indication of what it is hoped the autumn season will be. Shipping trade has been excellent, Tuesday's business being greatly in excess of recent records for that day. Cincinnati required a great deal of stock. Beauties continue to lead the demand and those houses which are having large daily receipts have found their gross sales footing up to a very satisfactory figure, for the Beauties are generally very good, a reasonable proportion of them running to medium and long stems, all with good buds and fine foliage. The cut of tea roses shortened decidedly at the end of last week, and it has not always been easy to fill orders, but supplies are slowly on the increase. In general the roses are very fine for the second week in September, the cool weather seeming to have helped them

Kanst, W. C. Egan and W. A. Peterson; press, P. J. Hauswirth, G. L. Grant and M. Barker; programme, J. C. Vaughan, G. W. Wienhoeber and E. A. Kanst; advertising, E. A. Kanst, C. A. Samuelson and E. E. Piesser; music, W. H. Chadwick, E. G. Uihlein and W. A. Peterson. The Florists' Club will be asked to appoint committees on the acceptance of exhibits.

The first chrysanthemums of the season were some Fitzwygram received September 4, by E. C. Amling. They came from Mrs. E. T. Grave, at Richmond, Ind. In a couple of weeks there will be abundant supplies for all demands, for the big growers report their stock in excellent shape. The season seems to have been very favorable and most of the stock will be of high quality.

Hubert Hansen, of 4016 North Clark street, has put his five 155-foot greenhouses into carnations, having planting now well along to completion. He has hitherto grown vegetables. His plants are said to be the best benched by any of the north side growers. He bought his cuttings of Peter Reinberg in the spring and has grown them on into splendid stock.

The Wilkes Manufacturing Company has secured a block of ground at Shields avenue and Thirty-fifth street and is building an up-to-date foundry covering more than half an acre. They have found business so good this season that it was difficult to fill orders.

P. J. Hauswirth and Mrs. Hauswirth and Anna Kreitling are at Norfolk, Va., this week where Mr. Hauswirth is attending a Red Men's convention. They go thence to New York.

P. S. Peterson & Son are shipping large quantities of peonias. They report this item of their fall business heavier than ever before.

E. E. Piesser, of Kennicotts', has been kept away from business this week by illness in his family.

Edgar Sander's condition does not improve as rapidly as his friends could wish.

Miss Nell M. Sisler, of E. H. Hunt's is at Denver on a vacation trip.

Visitors: Swan Peterson, Gibson City, Ill.; W. W. Adams, with the Gasser Company, Cleveland; Geo. Souster, Elgin, Ill.; J. D. Eisele and Geo. Clark, of H. A. Dreer's, Riverton, N. J.

Detroit.

CLUB INSTALLS NEW OFFICERS AND PLANS SEASON'S CAMPAIGN.—TRADE BRISK AND STOCK IN SHORT SUPPLY.—VISITORS.

Over thirty members attended the club meeting September 3. The chief business transacted was the installation of the newly elected officers for the ensuing year: President, Edmund S. Beard; vice-president, John Dunn; treasurer, B. Schroeter; secretary, J. F. Sullivan. The president appointed a committee to prepare a programme for the season's work and at a meeting Thursday evening sub-committees were appointed to complete the work. The popularity of the retiring president, Geo. A. Rackham, was fully attested by the presentation of a splendid Turkish leather chair. The recipient was completely though most agreeably surprised.

The past ten days was a period of unusual activity in retail circles. American Beauties were very much in demand. The closing of the aster season caused a heavy run on the meagre local supply of roses and carnations and outside markets were daily utilized. The carnation grow-



EXHIBITION OF PACIFIC COAST HORTICULTURAL SOCIETY, SAN FRANCISCO.

grave than Thomas Young, Sr., in May last, at the age of 84 years.

The donation of land by private citizens for public parks should be mentioned. While many have taken place prior, yet during the past month C. W. Anderson, of Upper Montclair, has donated a strip of probably twenty acres to the township.

On the whole the business of the past year marks an advance in glass surface and an increase in production with steady prices. It is impossible to discriminate by name any flower, so much depending upon the skill of the grower, and any healthy plant of acknowledged merit will bear continuously and brings a price. Educational influences are at work, not alone as part of school and high school curriculum for children, but our societies are doing much by furnishing able speakers, our agricultural station by bulletins and speakers, our own society by its report so widely distributed and noticed, and by an intelligent and ever practical trade press. This, with the objective teaching of our public parks and private estates, is ever and ever advancing the importance and excellence of the craft we love so well.

Material assistance is recognized to Messrs. W. J. Stewart, Alexander Wallace, Patrick O'Mara, Prof. Byron D. Halsted, the Universal Horticultural Establishment and Chestnut Hill Nursery.

CEDARHURST, N. Y.—The annual exhibition of the Lawrence and Cedarhurst Horticultural Society will be held here on November 5 and 6.

immensely. There is little mildew seen as yet, although the sudden changes in temperature are sure to inflict it on careless growers. Brides and Bridesmaids are being cut with excellent stems and fine form and color. There are some exceptionally good Kaiserins and a few good Liberty, Marquise Litta and Madam Chatenay. Carnations are also increasing daily in supply and improving in quality. In the past week they have cleaned out at prices proportionate to the quality, and with reasonable satisfaction to the growers. Perhaps the carnations have profited by the decrease in the aster crop, for this flower is no longer in great oversupply, and as the qualities are excellent, sales are very satisfactory, there being a brisk demand for white. There is some excellent lily of the valley, but it moves slowly, except where wanted for an occasional funeral order. Smilax and asparagus, too, move slowly.

There was a meeting of the executive committee of the Horticultural Society on Monday afternoon. It was thought best to divide up the work more than heretofore and the following committees were announced: Finance, W. H. Chadwick, E. G. Uihlein, J. C. Vaughan, E. A.

ers have nearly all housed their plants and a big season's cut is expected although the plants generally are smaller than usual. Increased planting is noticed everywhere.

Visitors: Geo. W. Goldner, New York; M. Reukauf and E. J. Fancourt, Philadelphia; C. W. Ward, Queens, N. Y.; J. L. Clucas, New York. J. F. S.

Boston.

TOUR OF THE DOWN TOWN RETAILERS PROVES THEM PROSPEROUS.—GENERAL VERDICT THAT THE PAST SUMMER WAS THE BEST ON RECORD.—MUCH FUNERAL WORK USES UP LARGE RECEIPTS OF CUT FLOWERS.—EDGELEY THE BEST ROSE.—MORE TROUBLE FOR FORESTERS.—NOTES.

A "swing around the circle" of the down town florists this week found every one of them in the best of humor, satisfied with the summer's showing and innocent of any solicitude as to the approaching fall and winter season. At Newman & Sons' a row of six industrious artists, including both the Messrs. Newman, were rapidly transforming the great heaps of asters, Japan lilies, gladioli and white roses into divers wreaths, crowns and other funeral emblems and a glimpse of the interior of the refrigerator where the completed work was placed gave confirmation to the declaration of Arthur Newman that business was first-rate. This gentleman has recently returned from a six weeks' trip across the continent as far as Seattle. John Newman, who had set out, on his brother's return, for a brief tour, got as far as Chicago, when western water got in its work and sent him hurrying homeward, cheerful and philosophical as ever, notwithstanding. The greenhouses of Newman & Sons are at Winchester, where they have rebuilt one house this season. W. E. Doyle's new store, on the corner of Beacon street and Tremont place, begins to assume a finished and home-like appearance, although some large mirrors and other accessories are yet to be put in. It is a very spacious establishment and is well set off by the groups of splendid palms, among which are a pair of kentias that would be hard to duplicate. These are from the greenhouses at Cambridge. J. H. Keehal, who has been in Mr. Doyle's employ for many years, has been placed in charge of the new store. Further down Beacon street Julius A. Zinn's place was found, as always, a model of neatness. In the interval between regular business calls all were busy on artificial flower work, a large shipment of which was being got ready to send to San Francisco. Mr. Zinn has just put another new and handsome wagon on the road and is happy over the figures on the day-book, which indicate the largest summer business he has ever had. Down at the lower end of Washington street J. W. Newman was found in his new store, busily at work on a big gates-ajar that towered away above his head and which would necessarily enjoy the exclusive occupancy of a barouche at the funeral for which it was being constructed. All together it would seem that "Please omit flowers" has no terrors for the patrons of Boston's down-town florists.

As to the wholesale market, it is characterized by abundance in all lines of seasonable flowers and the frequency of funeral design orders in the local and suburban retail stores furnishes a convenient outlet for the heaping bushels of white material which every morning dumps upon the market. Roses are milled as a rule, although the stock from

regular summer rose houses is, as yet, excellent. Queen of Edgely is easily the finest rose offered here at the present time and Welch Brothers have no difficulty in placing it with scrupulous buyers, who seem to have changed their views as to the desirability of this rose, as its good qualities have become better known.

The recent cutting down of a number of trees in Commonwealth avenue by direction of the park commissioners has set the kettle vigorously a-boiling again in the long-standing feud between the park department and the department of public grounds and the columns of Boston dailies have bristled with "vandal hands," "ruthless destruction," "wholesale slaughter," "bungling wood butchers," "carping critics" and similar backfence compliments of the hot-air order. The main question, however, is simply whether or not the course of the park commission in dealing with tree problems is in accordance with the judgment of the best tree authorities, and this should be easy of demonstration.

Quite a bunch of prominent visitors have appeared in the Hub recently. D. Fuerstenburg and Harry Simpson, from the Floral Exchange, Philadelphia, were here a few days ago; next came Mr. Creighton, representing H. A. Dreer, and W. A. Manda, of South Orange. This week we have L. A. Berckmans, Augusta, Ga.; George Brown, of the Agricultural Department, Washington; Wm. Griffin, Thompson, Conn.; J. B. Kidd, of Wm. Elliott & Sons, and Chas. Loechner, of Suzuki & Iida, New York. The horticultural exhibition at the end of the week will no doubt bring others.

W. W. Edgar and Mrs. Edgar arrived in good spirits on the Commonwealth from Liverpool last week and Ed. Hatch comes on the Ivernia this week in charge of the best steward who ever uncorked a bottle of apollinaris.

New York.

CLUB HOLDS A WELL ATTENDED MEETING.

—O'MARA HOLDS CENTER OF STAGE.—

REPORTS GOOD PROGRESS ON FLOWER

SHOW.—URGES EARLY ENTRIES.—NAR-

RATES INCIDENTS OF CONVENTION TRIP.

—OTHER SPEAKERS.—EXHIBITS.—NOTES.

Forty-one members attended the monthly meeting of the New York Florists' Club at Civic Hall, 128 East Twenty-eighth street, Monday evening, September 8. Alex. Wallace, chairman of the transportation committee, reported that the New Yorkers were well cared for en route to Asheville, congratulated the club on turning out the largest number of delegates from the east, and presented his bill, which was ordered paid and the committee discharged with thanks. Patrick O'Mara, chairman of the exhibition committee, told of a conference with a committee of the National Sculpture Society at which a plan of the exhibition was favorably acted upon, also the matter of a poster. A most harmonious spirit was shown during the conference. Mr. O'Mara urged that those who intend to exhibit make their entries at the earliest possible moment. By invitation of the house committee, Mr. O'Mara entertained the club with his impressions of the Asheville convention. He said that he was one of those who had been pessimistic as to the success of a convention held so far from the beaten track but was agreeably disappointed at the interest shown. He recounted incidents of the trip going, and also referred appreciatively to the reception by the committee of the Board of Trade and gave his

impressions in general of the serious work of the convention. The club accorded Mr. O'Mara a rising vote of thanks. Alex. Wallace, J. Austin Shaw, W. H. Siebrecht and A. H. Langjahr also made a few remarks regarding the trip. The thanks of the club were tendered the Washington Florists' Club for its generous hospitality. Benj. Hammond, from whom an address had been expected, was not present. In the room adjoining the meeting hall there was an excellent exhibition of cannas and dahlias. A. Herrington, F. L. Atkins and Frank McMahon served as judges in the absence of the regular committee. Their report was as follows:

Collection of cannas from A. L. Miller. A very fine collection. The seedling shown compares favorably with standard varieties but is not shown in good condition. Cultural commendation and vote of thanks recommended.

Collection of cactus dahlias shown by W. Duckham. Miss Jeekyll, beautiful red; Marie Service, salmon pink; Cycle, grand red, specially fine; and numerous other varieties, all good. We recommend a certificate of merit.

Dahlias from Chas. Lenker. Germania Giant, very handsome. Vote of thanks.

Five varieties of cannas from Peter Henderson & Company, Gov. Roosevelt, a striking variety, and four new French varieties of interest. Vote of thanks.

Nephrolepis Anna Foster, shown by L. H. Foster. Recommend a certificate of merit as this is a distinct and graceful form.

Various dahlias from H. Beaulieu, Chameleon, a pretty pompon; Asheville seedling, a handsome show flower. Vote of thanks.

The cut flower market is somewhat better this week, the cool weather curtailing the production and, in some things helping the quality. Prices remain about as they were but averaging slightly better in the aggregate, as stock cleans up more satisfactorily in wholesalers' hands. Violets are increasing daily and are fully two weeks ahead of the usual time. The market treats them leniently so far and a top price of 50 cents per hundred is the limit.

Patrick Keenan, of 958 Franklin avenue, Brooklyn, died on September 5, from lockjaw resulting from a thorn wound in the thumb which he got while potting plants two weeks ago.

Cleveland.

ANNUAL OUTING OF THE CRAFT THE MOST SUCCESSFUL ON RECORD.—GAMES AND DINNER FOLLOWED BY SPEECHES.—CLUB MEETING.—PERSONAL AND OTHER NOTES.

The great event of the year, the outing and annual banquet of the Cleveland Florists' Club, came off in grand style on September 4. The entertainment surpassed all previous efforts. Over 150 persons participated. The bowling was a source of great enjoyment to the ladies; about twenty-five competed. Mrs. A. L. Brown captured first prize, a silk umbrella, second prize, a box of handkerchiefs, going to Mrs. Fred. Ponting, while Mrs. H. A. Hart captured the booby. In the gentlemen's class the competition was very keen. There were over forty entries. The first prize, a silk umbrella, went to A. L. Brown; second, a fountain pen, to Isaac Kennedy. The booby went to J. C. Andrews. After satisfying the inner man with a delightful repast, Adam Graham was chosen toastmaster and performed that duty in his inimitable style. Robert George treated the subject of floriculture in a masterly way. Mr. Schmitt praised the ladies for their share in the work. Mr. Steyn spoke on athletics in connection with floriculture. Mrs. Ella Grant Wilson was in a reminiscent mood and recalled the good work done by the pioneers in floriculture in Cleveland. Robt. Kegg told of the good work done by the city in beautifying the parks.

Mrs. Schmitt spoke on behalf of the ladies connected with the market. Other speakers were H. A. Hart, J. C. Andrews, A. L. Brown and Isaac Kennedy. A fish-pond was thoroughly enjoyed by the youngsters, each one receiving at least two prizes. Mr. Naumann's singing of German melodies was a feature.

The club meeting September 8 was very well attended, the special feature being the nomination of officers. The following candidates were named: For president, Gordon Gray; first vice-president, F. C. Borte; second vice-president, A. L. Brown; secretary, Isaac Kennedy; treasurer, H. A. Hart. The following were elected to membership: G. H. Bruehler, Edward Elliott and Henry Eickhoff. It was decided that all members who have been dropped from the club roll may be readmitted as new members, this rule to hold good until January 1, 1903.

Mrs. G. M. Naumann has returned from her trip abroad. Her itinerary included Leipsic, Dresden and the Hartz mountains, her former home. While in Leipsic she purchased of Herr Tolacker two plants of a wonderful new white carnation, called Gloire de Nancy. We are all anxious to see how it turns out. Mrs. Naumann enjoyed her trip very much.

W. W. Adams is back from a two weeks' visit with friends in Peoria, Ills., looking robust.

Albert Wilhelm, of Butte Mont., is home for a visit. He likes the west, but says the climate is hard on an eastern man.

Mrs. Isaac Kennedy and family have returned from the east. ECHO.

Philadelphia.

MARKET QUITE DULL.—ASTERS IN EXTREME OVERSUPPLY.—BEAUTIES PLENTIFUL.—GOOD BUDS PREFERRED TO LONG STEMS.—THE PRICES.—A VISITOR.—DOINGS OF THE WHOLESALERS.—PERSONAL DOINGS OF VARYING INTEREST.

There has been no feature to the market the past week, except that of extreme dullness. Asters were piled up everywhere. Wagon loads were backed up on the street corners and the bunches of flowers were offered at "any old price." Whether the commission merchant or the fakir was back of the scheme is still an open question. The asters were there and had to be moved somehow and the wagon venture was not a bad one. Week before last was high tide with Dumont & Company, who handled 125,000 blooms. This is about the record, for this city at least. Several more Beauty specialists began to cut last Monday and from now on until cold weather sets in there is likely to be enough of this variety to meet the demand. To the growers of this rose I would suggest that they pay more attention to getting perfect buds, rather than length of stem. Prices for Beauties range from \$1 to \$2.50 per dozen, the latter for only gilt-edged stock. Teas bring from \$3 to \$4 per hundred. Carnations fetch \$1 per hundred, with \$1.50 for a few extras. We hear of chrysanthemums in other markets but nothing is in sight here as yet and we hope to see none until after October 1.

George McLean, of Walker & McLean, Youngstown, O., was in the city this week. He reports having had a most satisfactory year. He looks well and says that his partner looks even better. When last seen Harry Bayersdorfer was touching him up for a large order of his last importations.

Repair work in the stores is about finished. Pennock Brothers put in a new

boiler and at the same time erected a furnace out of the old material, in which they hope to burn up the rubbish which accumulates so fast during the busy season.

The question of coal is beginning to worry the growers not a little. It seems now to be bituminous or nothing and quite a number are laying in a supply of the dirty stuff from absolute necessity.

Eugene Bernheimer now has a place in every way fitted for the business. He spent the past week among his carnation growers and reports the outlook for the coming season as most satisfactory.

Robert Craig is home again, after spending a week with W. K. Harris at his Ocean City villa. He is mending slowly and hopes to be all right before the winter sets in.

Wm. J. Moore has moved to his new location, 11 South Sixteenth street, where he has a much larger store and greatly increased facilities.

Wm. Holmes and James Higgins, late of Philadelphia but now with Messrs. Neff and Randolph & McClements, of Pittsburg, are here on a visit.

The wholesale men are still renovating. Ed. Reid is having a large cellar excavated under his store, which will give him much needed room.

Fred. Ehret says that the up-town district will be well cared for, as the outlook was never better with him.

K.

St. Paul.

DONALDSON PLACE AT MINNEAPOLIS A MODEL.—STOCK IN FINE SHAPE.—WELL KEPT GROUNDS.—TRADE IMPROVING.—STOCK NONE TOO PLENTIFUL.—A VARIETY OF PERSONAL AND TRADE DOINGS.

A model establishment is that of the Wm. Donaldson Company, at Minneapolis. Their roses are exceptionally fine. Old stock is being carried over, some for the third year. I think their Liberty are a little the best I have seen and I may change the opinion expressed some time since that Meteor is still the most profitable red rose grown. Their carnations and violets are in fine condition. Chrysanthemums are thrifty but backward. Two new sash houses have been erected this season and are planted to asparagus and smilax in solid beds. The grounds outside are kept neat and attractive, beds of geraniums and cannas with well kept graveled walks adding greatly to the general appearance. This is an example many of our friends might copy to good advantage.

Trade is improving daily and will soon be back to a profitable basis, after the summer vacation. There have been no frosts and the late rains have kept outdoor stock growing nicely, but it is about gone. Roses are increasing in quantity and quality. Some very good Brides and Bridesmaids are being cut from old stock that has been replanted. They come into bloom much quicker than the smaller stock and produce better flowers. Beauties are in good demand but short supply at present. Carnations are more plentiful but are still short of the demand.

L. L. May & Company had a fine exhibit of palms and cut flowers in the main building at the State Fair, in connection with their seed exhibit. It was not entered for competition.

Jos. Heintz, of Jacksonville, Ill., one of the "old timers" in the business, made a visit on his way home from the Pacific coast.

Mildew and black spot are quite preva-

lent on roses owing to the cool, damp nights.

C. W. Scott, of Vaughan's, Chicago, has been here with samples of palms and ferns.

Christ. Hansen has returned from his trip to the Canadian northwest.

W. W. Seekins, of Duluth was here during fair week. FELIX.

Toronto.

GROWERS MAKING MANY IMPROVEMENTS.—ROSES IN CONNECTED HOUSES.—GOOD RESULTS WITH ASTERS.—CATALOGUE TRADE EXPANDING.

John H. Dunlop's new range is nearing completion and makes an imposing appearance. Benching is about finished. Most of the space is devoted to carnations and roses, chrysanthemums being grown in very limited quantity. Mr. Dunlop's method of growing various roses together in blocks of non-partitioned houses is being watched with much interest by the experts of this vicinity.

Grobba & Wandrey have added several acres to their property and will build new barns and sheds this fall. They have a fine new delivery wagon in course of construction. Their stock in general has been unusually good this season and sold well. The crop of Hohenzollern asters in particular has given great satisfaction.

The Steele, Briggs Seed Company has on its trial grounds four greenhouses 18x100 feet and four 12x100 feet, all of which will be extended fifty feet next year to meet the growing demands of their catalogue trade.

Field carnations are bought up close in this vicinity and some of the large growers are having considerable trouble in procuring sufficient stock to fill their benches.

Visitors: A. Zirkmann, representing Sigmund Geller, New York; Wm. Scott, Buffalo, N. Y.; Wm. H. Gammage, London, Ont.; Alfred Murdock, London, Ont.; G. B. Wiegand, Indianapolis, Ind. H. G. D.

Minneapolis.

GOOD FLORAL DISPLAY AT THE ANNUAL STATE FAIR.—THE PREMIUM WINNERS.—TRADE SHOWS LITTLE INCREASE.—VARIOUS NOTES.

The exhibits at the State Fair last week were beyond all doubt the finest ever shown there and included palms, ferns and miscellaneous flowering plants. Mendenhall, E. Nagel, the Minneapolis Floral Company and L. L. May & Company were the leading exhibitors. First prize was captured by the Minneapolis Floral Company, for general arrangement of plants. In the design exhibits Wm. Donaldson & Company secured first prize, E. Nagel second, the Minneapolis Floral Company third, and Mendenhall fourth. L. L. May & Company, of St. Paul, had a beautiful layout of palms, ferns, seeds and so forth.

Business showed a little increase during fair week. Stock in tea roses and Beauties is in fair supply and in good demand. Carnations are good but short in stem. Asters and gladioli are in large supply and sacrifice sales have to be made to move them.

We are more than pleased at Milwaukee's success in securing the convention for next year and surely the Twin City florists will be largely represented.

Wm. Donaldson & Company are cutting some fine tea roses from their young stock. C. F. R.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
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and dealers in wares pertaining to those lines *only*.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

THIS is the time to divide and trans-
plant pæonias.

BE on your guard against the early
frosts which are now due.

SNOWCLAD is a good, free-flowering,
dwarf pompon dahlia with white flowers.

SURPLUSES of field grown carnation
plants are cleaning up nicely, but there
does not seem to be a demand to war-
rant extremely high prices.

JOSEPH BENNETT, of Montreal, the
retiring president of the Canadian Hor-
ticultural Association, gives it as his
belief that so many as 12,000 persons
are employed in the florists' business in
the Dominion of Canada.

THE production of window glass has
begun earlier than usual this year and
there is a lack of harmony among the
powers of the trade which may lead to
a new illustration of the dues which
honest men receive when rogues fall out.

CANADA will invade the United States,
says William Kipling Algie, director-gen-
eral of the Dale Estate, Brampton, and
orator of Ontario. William Kipling Algie
knows. He assures us of at least a carload
of Canadians for Milwaukee and a goodly
delegation for the Chicago chrysanthemum
exhibition. Where Algie sits is the
head of the table.

Greenhouse Building.

Decatur, Ind.—J. A. Ernsherger, one
house.

Clinton, Ia.—Jno. R. Bather, house
25x75.

Bloomfield, Ia.—J. R. Kingsbury, one
house.

Cleveland, O.—Jas. Wilson, three houses.
Dover, Mass.—Davis Farm, range of
steel frame houses.

New York City.—Siebrecht & Son, con-
servatory 130 feet long.

Lenox, Mass.—Mrs. R. C. Winthrop,
house 20x79, violet pit 36 feet long.

Morton, Mass.—Holmes Bros., one
house.

Wilmington, Del.—John J. Kruatle,
one house.

Elmhurst, N. Y.—G. C. Schrader, eight
smilax and fern houses.

Brooklyn, N. Y.—F. Doering, house
15x30.

Philadelphia, Pa.—W. H. Mays, one
house.

South Orange, N. J.—W. A. Manda,
house 30x100, three houses 20x100, two
houses 10x100.

Whitman, Mass.—R. E. Moir, rose
house.

Jamaica Plain, Mass.—J. F. Shea, one
house.

American Carnation Society.

DEPARTMENT OF REGISTRATION.

Thomas Coles, manager of the Little
South Floral Company, South Natick,
Mass., registers The Queen, a white seed-
ling. ALBERT M. HERR, Sec'y.

Chrysanthemum Society of America.

DEPARTMENT OF REGISTRATION.

Nathan Smith & Son, Adrian, Mich.,
register a Japanese chrysanthemum
named F. J. Taggart; color, yellow; form,
incurred. EDWIN LONSDALE, Sec'y.

The Use of Spent Hops.

ED. AM. FLORIST:—Please tell me if
hops are of any use as a fertilizer or to
mix in the soil. We have several brew-
eries here and I would like to know if the
spent hops would help lettuce?

J. G. G.

Spent hops contain a considerable
amount of fertilizing matter, but it is in
a slowly soluble condition and they
should be thoroughly composted before
they are mixed with soil for greenhouse
use. In this condition they have a good
physical effect when the soil is heavy. If
hops can be readily obtained they are
excellent for mulching stock and other
plants that are bedded out during the
summer. Used in this way they lessen
the labor of hoeing and watering and
promote a strong and healthy growth of
the plants. L. R. TAFT.

Piping Two Houses.

ED. AM. FLORIST:—I have two houses
running east and west, connected to shed
on the west ends, with cellar below for
boiler room. House No. 1 is 14x33, ten
feet to ridge, one raised bench on each
side, center bed solid. To be piped to
maintain 60° to 65° when it is 10° to 15°
below zero outside. House No. 2 is 20x33,
ten feet to ridge, connected to No. 1,
three raised benches, to be piped for 50°
to 55°. Pipes to be all under benches.
How many lines of 2-inch pipe will be
required? What would be the best posi-
tion for the expansion tank? Boiler is
Wilks, No. 42. C. C. W.

Pipe both houses the same, using one
2-inch flow and four 2-inch returns on
each side of each house. Connect the
expansion tank to the highest part of
the system and elevate it ten feet if pos-
sible. L. R. TAFT.

Worms in Rose Beds.

ED. AM. FLORIST:—We are bothered
with worms in our rose beds. Are they
a detriment to the plants? Would it
hurt the bushes to sprinkle the ground
with fresh lime and work it in? Would
it hurt the bushes to dig between the
rows? What is the best fertilizer to use
for roses? W. L. P.

Utah.

One can sprinkle lime lightly on the
surface of his rose bed without doing any
damage to the plants, but to exterminate
the earth or angle worms a much better
plan is to slake the lime the same as if for
mortar, then add water and let it stand
till clear before using, giving the whole
soil a good soaking. One application
will usually clear all the worms out, but
if it should not do so, a second dose in
about two weeks will surely finish them.
To make this lime water take one peck
of fresh lime to fifty gallons of water.

I would not advise digging between
the rows as it is very apt to destroy

some of the young feeding roots; as a
rule it is preferable to keep the main body
of soil as firm as possible and only rub
the surface over lightly occasionally to
prevent its forming a green surface from
frequent waterings.

The best fertilizer for roses, all things
considered, is pulverized sheep manure.
If this cannot be obtained readily, then
the next best is chicken manure. In
using this as a mulch mix at least half
soil with it before using, and then only a
very thin coat should be applied, once in
six to eight weeks. For chemical fertili-
zers nitrate of soda and nitrate of potash
are the most useful in equal parts, using
six ounces to fifty gallons of water at
each application, every fifteen to twenty
days. JOHN N. MAY.

Heating Capacity.

ED. AM. FLORIST:—Our greenhouse is
devoted to general purposes and is
28x56, side walls of brick five feet high,
well boarded outside, with 2-inch dead
space between. The comb is twelve and
one-half feet high and with 1,950 square
feet of glass, and the house somewhat
exposed. The office, 12x16 at one end
of the greenhouse, and divided from it by
a wall, is eight and one-half feet high and
is warm. For heating I have the Ideal
boiler, No. 26, set in the office. I then
have one 3-inch pipe passing from the
boiler through the wall, and running
overhead the full length of the green-
house, then dropping by means of 2½-inch
headers from which ten lines of 2-inch
pipes pass back under the benches the full
length of the greenhouse to the boiler.
There are fifty-five feet of 3-inch pipe,
thirty-five feet of the headers, and 550
feet of the 2-inch pipe. I would be glad
to be able to maintain, if necessary, 65°
of heat in zero weather. Can I do it in
your opinion? The expansion tank of
thirty gallons is set overhead in the
greenhouse, across the wall from the
boiler. E. J. P.

The radiation given (432 feet) will not
give a temperature of more than 50° in
zero weather, unless the boiler is pushed.
For economy of fuel and labor the radia-
tion should be at least 750 feet and 800
feet would be more satisfactory. While
one 3-inch flow would answer for 432
feet, two flows of this size will be needed
for 750 feet, and the number of the
returns should be increased to eighteen.
If a temperature of 60° will answer when
the mercury outside drops to zero, sixteen
returns will be satisfactory. As I remem-
ber, the No. 26 Ideal boiler is rated for
about 1200 square feet of radiation.
This will give a safe margin.

Brampton, Ont.

THE CUT FLOWER PRODUCING CENTER OF
THE DOMINION.—GREAT RANGE OF GLASS
GOING UP.—SPLENDID STOCK.

This town is rapidly extending as a
growing center. In addition to the great
establishment of the Dale Estate, Wm.
Fendley and R. Jennings are now increas-
ing their area to meet the constantly
growing demand, and Geo. Harvey is
holding his own. Mr. Jennings put up a
house 24x115 feet early in the season
and now has it filled with excellent
chrysanthemums. He is completing a
violet house 18x115 and, having plenty
of room to develop, he does not expect
to stop building. He grows about 10,000
chrysanthemums, including such varie-
ties as Fitzwygram, white and yellow;
Ivory, white and pink; Bergmann, Glory
of Pacific, Golden Wedding, Timothy

Eaton, Bonnaffon, Whildin, Higinbotham and Mrs. Jerome Jones. Some of the Fitzwygrams were ready for cutting September 5. Some 16,000 carnations are grown and for these Mr. Jennings believes in early planting, from July 15 to August 15, which is certainly not the rule hereabouts. As he is now cutting about 3,000 very good blooms per week, his system would appear to have merit. The varieties he favors are Glacier, Flora Hill, White Cloud, Hoosier Maid, Prosperity, Lawson, Marquis, Morning Glory, Crane, Roosevelt, Wm. Scott, Van Horn, Cerise Queen and Mrs. Bradt. In violets he grows Princess of Wales, Marie Louise and the Farquhar. While a general line of stock is carried, including roses, the foregoing are Mr. Jennings' specialties and he grows them well, especially the chrysanthemums.

At the Dale Estate's place work is going forward rapidly on the magnificent new range of twenty-three houses. There is need for Chicago growers to look to their laurels if that city is to retain supremacy as the cut flower growing center of the world. T. W. Duggan, the urbane manager of the estate, returned August 23 from Europe, where he has sojourned six weeks and incidentally made heavy investments in Roman hyacinths and lily of the valley pips.

St. Louis.

TRADE SHOWS THE STIMULUS OF THE APPROACHING AUTUMN.—GOOD STOCK QUICKLY TAKEN UP.—PERSONAL AND TRADE DOINGS.

The market remains about the same as far as quality is concerned, but the demand is some better. Beauties are very fine and \$2.50 per dozen is received for the best. In the way of roses, Brides and Bridesmaids are in the lead, followed closely by Meteors and a few very fine Perles. Carnations are coming in quite plentifully, with Ethel Crocker and Crane in the lead. A big demand is expected for pink carnations the latter part of the week, as they will be worn in memory of Mr. McKinley. Several large orders have been booked ahead for this color. Asters and bulbous stock are scarce.

John Young is back at his place of business after his eastern trip. Will Young has also returned from New York and Philadelphia. Walter, the eight-year-old son of James Young, is ill with typhoid fever.

The baseball game of last Sunday was given to the Tessons after the fifth innings, as the Bernings threw up the sponge. The final game comes September 21.

H. J. Fuhlbruegge, foreman at Tesson's greenhouses, has been on a successful hunting expedition across the river in Illinois. R. J. M.

OBITUARY.

HENRY M. BOWIE.

Henry McKay Bowie died August 26 at the Providence Hospital, Washington, D. C., from typhoid fever and a complication of diseases. He was sick about three weeks. Mr. Bowie was born in Wilmington, N. C., in 1877, and removed to Washington, D. C., in 1892, to work in the florist business with Otto Bauer, in whose employ he remained about five years. When George C. Shaffer started in business he employed Mr. Bowie at his store. July 21 he went on his vacation, to Ocean City, Md., for three weeks, returning only to go to the hospital. Mr.

Bowie was a favorite in the trade and his loss is felt keenly by Mr. Shaffer. His remains were taken to Wilmington, N. C., for interment. P. G.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By German florist, specialist for palms and ferns. Address R. Lakewood Post Office, N. J.

SITUATION WANTED—Experienced designer and decorator. High class salesman. Sober and industrious. JUDITH A. SCHNAPP, 2220 Indiana Ave., Chicago.

SITUATION WANTED—As plantsman to grow fine pot plants for market or otherwise. Unquestioned ability. Address No. 28, care American Florist.

SITUATION WANTED—14 years' experience, decorator and specialist for fantastic work. Best references from first-class stores in Germany. T. K., Lakewood Post Office, N. J.

SITUATION WANTED—As night fireman with florist; vicinity of Cincinnati preferred. American, age 25; sober and steady. Address J. I. C., care Gould, 498 W. Federal street, Youngstown, Ohio.

SITUATION WANTED—By single, middle aged German florist as rose grower or to take charge; 25 years' experience. Fair salary and permanent place expected. Address S., care American Florist.

SITUATION WANTED—By good all-around man, first-class grower of cut flowers and all kinds of bedding plants. Chicago or near by preferred. Address C. C., care American Florist.

SITUATION WANTED—In store or greenhouses, good decorator and designer, 10 years' experience; age 27; good references. Please state wages in first letter. Address PANSY, care American Florist.

SITUATION WANTED—A responsible situation as designer and salesman in first-class flower store, New England States preferred. Recommendations A. F. W. FREYSTEIDT, 44 Sewall street, Somerville, Mass.

SITUATION WANTED—By first class all-around florist; 18 years' experience; age 32, single. Specialty palms, ferns and pot plants in general. Able to take charge. Address L., care Schiepan, 355 State St., Chicago.

SITUATION WANTED—By single German age 30, as vegetable gardener, competent to take charge or as helper to florist; temperate and industrious. Middle west preferred. Liberty September 30. Please state particulars in first letter. Address V. G., care American Florist.

SITUATION WANTED—As foreman, young Dutchman, 27 years of age, strong and active, 15 years' all-around indoor experience, of which 6 years was engaged as foreman in good wholesale nurseries. Good grower of palms, ferns, chrysanthemums, carnations and roses; also good forcer. Speaks English fluently, besides French and German. Wishes an engagement as above, New York or vicinity preferred. Address A. B. C., care American Florist.

WANTED—A lady florist, must be good sales-lady. Address P. B., care American Florist.

WANTED—At once, assistant rose grower and general greenhouse man. Address C. H. FREY, Lincoln, Neb.

WANTED—To rent, greenhouse business in or vicinity of Buffalo, N. Y. Address MAX REICHLER, Derby, N. Y.

WANTED—A few sections of Carmody boiler at once; not the return flow pattern. Address C. H. FOREMAN, Louisiana, Mo.

WANTED—First-class rose grower, for section of Brides and Maids. Good wages to the right man. Address JOHN MUNO, 51 Wabash avenue, Chicago.

WANTED—2 young men as assistants in greenhouse work. Men with experience in pot plants preferred. Address J. A. PETERSON, McHenry Ave., Cincinnati, O.

WANTED—An assistant florist for general stock; state experience, wages expected with board and room and send references. Address L. L. PULLSBERY, Galesburg, Ill.

WANTED—A man, must be sober and reliable, to grow roses, carnations and mums and cut flowers in general. Address FLORA, care American Florist.

WANTED—Man with practical experience in growing cut flowers and bedding plants. State age, experience and wages wanted. References required. Address R., American Florist.

WANTED—To buy, good retail florist business with about 8,000 feet glass and ground to increase houses. Must be in good condition. CHAS. FURNER, 219 Ashby St., Jefferson City, Mo.

WANTED—At once, good all-around single man to look after 25,000 ft. of glass. Will pay good wages to the right man. Send reference and state wages with bed room without board. Address W. W. COLES, Kokomo, Ind.

WANTED—A first-class carnation and rose grower with \$3,000 to take one-half interest in a plant I wish to establish. Have good location thirty miles from Chicago, Ill. Address H. E. J., care American Florist.

WANTED—A man who understands the growing of vegetables. Permanent place to a good man. Also a boy with some experience in greenhouse work. Address GEO. A. LINFOR, Corner Mercer and Penn Sts., Butler, Pa.

WANTED—Good grower, retail place of 6,000 ft.; state wages expected with board, room and washing furnished; increase if capable; reference with description wanted. Address JULIUS STEINHAUSER, Pittsburg, Kas.

WANTED—Propagator of roses, carnations, etc., must be thoroughly first-class; no others need apply. Also a few growers of roses and carnations for sections. Good wages and steady work. Address LAKEVIEW ROSE GARDENS, Jamestown, N. Y.

WANTED—A working foreman to take charge of 22,000 square feet of glass, where first-class roses and carnations are grown, also one house of poinsettia; also one assistant. State age and wages expected, with board and washing. Apply to JOHN L. WYLAND, De Haven, Pa.

WANTED—To buy a well established and paying retail florist business with two or three greenhouses attached, located in either middle or eastern states. I am a practical all-around florist and not afraid of work. State terms of sale. Address P. S., care E. Sanderson, 211 W. 49th Street, New York City.

FOR SALE—Well established greenhouse business, 12,000 feet of glass; steam heat, 100 miles from Chicago. Address INDIANA, American Florist.

FOR SALE—A great bargain, 3 greenhouses, 6,000 ft. of glass, well stocked with carnations, mums, roses and general bedding stock, in a live growing town in Western Pennsylvania. Address BARGAIN, care American Florist.

FOR SALE—An old established greenhouse business; entire plant rebuilt; steam heat. With all the ground or part; also with or without residence. Situated in Cleveland, O. A bargain. Address O. K., care American Florist.

FOR RENT OR SALE—At Highlands, N. Y., three greenhouses 200 feet long, 4-span, propagating house 100 feet, large potting shed, dwelling and stable; city water; steam heat. Immediate possession. Apply to Geo. R. BRISTON, 206 Broadway, New York City.

Wanted—Young man experienced in pot plants and bedding; also sober night fireman; steam boilers, must have experience with soft coal. Address, with ref. S. J. REUTER, Westerly, R. I.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

For Rent or Sale Greenhouse

(about 7,000 feet of glass), dwelling and stable, Evanston, Ill., two blocks from C & N W station. Good established trade direct from greenhouse. Rent reasonable. Address

1127 CHURCH ST., EVANSTON, ILL.

September Weddings



Will need Lily of the Valley,
Wild Smilax and Decorating Material,
All kinds of Choice Roses,
Beauties especially.

Deamud Has Them.

J. B. Deamud, CHICAGO. 51-53 Wabash Ave.

E. H. Hunt,

WHOLESALE.....

Cut Flowers

THE "OLD RELIABLE,"

76 Wabash Ave., CHICAGO.

Poehlmann Bros. Co.

Wholesale Growers of

and Dealers in **Cut Flowers**

All telegraph and telephone orders given prompt attention. 35-37 GREENHOUSES: Randolph Street, Morton Grove, Ill. CHICAGO, ILL.

The Cincinnati Cut Flower Co.,

437-439 Main St. CINCINNATI, O. **WHOLESALE FLORISTS.**

Consignments Solicited. Special Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.

Michigan Cut Flower Exchange.

Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around. BRONZE GALAX, \$1.00 per thousand.

28 Miami Ave., DETROIT, MICH.

H. G. BERNING Wholesale Florist

1322 Pine St., ST. LOUIS, MO.

Frank M. Ellis, WHOLESALE FLORIST,

1316 Pine Street, ST. LOUIS, MO.

CONSIGNMENTS SOLICITED.

C. A. KUEHN, Wholesale Florist,

1122 PINE STREET.

ST. LOUIS, MO.

A complete line of Wire Designs.

Pittsburg Cut Flower Co., Ltd

WHOLESALE FLORISTS.

Pittsburg, Pa.

RICE BROTHERS WHOLESALE FLORISTS and FLORAL SUPPLIES.

Receivers and Shippers of Fresh Cut Flowers.

Special attention to shipping orders. A complete line of Florists' needs. Send for price list. Prompt returns on all consignments.

128 N. Sixth St. MINNEAPOLIS, MINN.

Please mention The American Florist when writing.

The F. R. WILLIAMS CO. WHOLESALE FLORISTS.

Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.

Telephone Connections.

CLEVELAND, OHIO.

GALAX LEAVES



Ferns, Leucothoe Sprays.

The above furnished to foreign or U. S. trade, goods guaranteed. We solicit wholesale trade.

W. A. DAVIS & CO., LOCK BOX 13. MARION, N. C., U. S. A.

Galax AND Leucothoes.

Selected, Bright and Brilliant. Wholesale Trade Solicited.....

J. L. BANNER & CO., Montezuma, N. C.

Wanted

We wish to make arrangements with a few First-Class Growers for regular consignments of Cut Flowers, especially Roses and Carnations. Can promise good returns.

TEXAS SEED & FLORAL CO. Wholesale Commission Florists, Dallas, Tex.

Bassett & Washburn

76 & 78 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of **Cut Flowers**

GREENHOUSES: HINSDALE, ILL.

Holton & Hunkel Co.
Wholesale Florists,
457 Milwaukee St., MILWAUKEE, WIS.

Wholesale Flower Markets

MILWAUKEE, Sept. 11.

Roses, Beauty, loog, per doz.	2.00
" " med. "	1.00@1.50
" " short "	.50@ .75
" Liberty.....	6.00@ 8.00
" Bride, Bridesmaid.....	4.00
" Meteor.....	4.00
" Golden Gate.....	4.00
" Perle.....	2.00@ 4.00
Carnations.....	1.00@ 2.00
Asters.....	.50@ 1.00
Sweet peas.....	.15
Adiantum.....	.75@ 1.00
Smilax.....	12.00@15.00
Asparagus.....	65.00
Common ferns.....	.25

PITTSBURG, Sept. 11.

Roses, Beauty, specials.....	15.00@20.00
" " extras.....	10.00@12.00
" " No. 1.....	4.00@ 6.00
" " No. 2.....	2.00
" Kaiserin.....	2.00@ 6.00
" Bride, Bridesmaid.....	1.00@ 4.00
" Meteor.....	1.00@ 4.00
" Liberty.....	2.00@ 6.00
Carnations.....	.50@ 1.50
Asters.....	.25@ 1.00
Lily of the valley.....	2.00@ 3.00
Gladioli.....	1.00 @ 3.00
Smilax.....	12.00@15.00
Adiantum.....	.75@ 1.00
Asparagus.....	35.00@40.00

CINCINNATI, Sept. 11.

Roses, Beauty.....	5.00@25.00
" " Bride.....	1.00@ 4.00
" " Bridesmaid.....	1.00@ 4.00
" " Meteor.....	1.00 @ 4.00
" " LaFrance.....	3.00@ 4.00
" " Kaiserin.....	3.00
Carnations.....	.75@ 1.00
Asters.....	.50@ 2.00
Gladioli.....	3.00
Lilies, album and rubrum.....	4.00
Lily of the valley.....	4.00
Asparagus.....	50.00
Smilax.....	12.00@15.00
Adiantum.....	1.00
Common ferns.....	.15

St. Louis, Sept. 11.

Roses, Beauty, medium stem.....	10.00@18.00
" " Beauty, short stem.....	3.00@ 8.00
" " Bride, Bridesmaid.....	2.00@ 4.00
" " Golden Gate, Carnot.....	2.00@ 5.00
" " Meteor.....	2.00@ 4.00
Carnations.....	.75@ 1.50
Asters.....	.75@ 2.00
Tuberose.....	5.00
Lily of the valley.....	4.00
Smilax.....	12.50@15.00
Asparagus Sprengeri.....	1.50
" Plumosus.....	.75@ 1.00

Beauties are unusually good for so early in the season and exceptional value at current rates. We have enough for all.

Tea Roses Crops are increasing in quantity and improving in quality. Brides, Maids and Kaiserins are best.

Carnations It is remarkable the way the supply has increased and qualities improved in the last two weeks. Enough for all.

Greens Smilax, Asparagus Plumosus and Sprengeri are items which are in steady, all-season demand and we have arrangements which insure a practically inexhaustible supply. Let us have your orders.

Wild Smilax We are now ready to supply Wild Smilax for all requirements but as it is yet early to carry it in stock we must have three days' notice. Write or wire.

SEND FOR OUR PRICE LIST, ISSUED WEEKLY.

E. C. AMLING,

32-36 Randolph St. L. Dis. Phones 1977 and 1999 Central, Chicago, Ill.

The Largest, Best Equipped and Most Centrally Located Wholesale Cut Flower House in Chicago.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

KENNICOTT BROS. CO.

Wholesale Cut Flowers and Florists' Supplies.

42-44 Randolph St., CHICAGO.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Avenue, CHICAGO.

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.

800,000 FEET OF GLASS.

Headquarters for American Beauty.

51 Wabash Ave., CHICAGO, ILL.

FRANK GARLAND,

Wholesale Grower of **Cut Flowers**

SPECIAL ATTENTION GIVEN TO HARDY CUT **FERNS** 55-57 WABASH AVENUE, CHICAGO. Telephone Central 3284

It is good business policyto mention the

American Florist

When you write to an advertiser.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Stoses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

Wholesale Flower Markets

CHICAGO, Sept. 12.		
Roses, Beauty, 36-inch stems	30	3.00
" " " "	24	2.50
" " " "	20	2.00
" " " "	15	1.50
" " " "	12	1.00
" " 6 to 8 " " "	per 100	4.00@ 5.00
" Bride, Bridesmaid.....	2.00@	5.00
" Meteor.....	2.00@	5.00
" Perle.....	2.00@	4.00
" Golden Gate.....	2.00@	4.00
Carnations.....	1.00@	1.50
Asters.....	50@	2.00
Gladioli.....	2.00@	3.00
Lily of the valley.....		4.00
Auratum, per doz., 1.00@1.25		
Tuberose.....	3.00@	6.00
Asparagus, per string, .50		
Adiantum.....	.75@	1.00
Common ferns, per 100, 1.00		.15
Galax leaves, per 100, 1.25		.15
Smilax per dozen, 1.25@1.50		

Bentley & Co.

F. F. BENTLEY, Manager.

Wholesale Commission Florists

31-35 Randolph St., CHICAGO.

Consignments solicited.....

LILY OF THE VALLEY.

Extra fine cut Valley every day in the year. Fine cold storage pips. \$1.50 per 100; \$13.00 per 1000.

H. N. BRUNS,

1409-1411 W. Madison St., CHICAGO.

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO

Send for weekly price list and special quotations on 1000 lots.

JOHN MUNO,

Wholesale Grower and Shipper of **Cut Flowers**

Room 221, 51 Wabash Ave., CHICAGO.

TELEPHONE CENTRAL 3568. All telegraph and telephone orders given prompt attention.

Please mention the American Florist when writing.

GEO. REINBERG,

Wholesale Grower of **Cut Flowers**

Choose American Beauties.

We will take care of your orders at reasonable prices. Prompt attention.

51 Wabash Ave., CHICAGO, ILL.

Please mention the American Florist when writing.

Chicago Carnation Co.

Joliet, Illinois.

CUT DAHLIAS

Commencing September 1st will be open from 7:30 A. M. to 6.00 P. M., Saturdays included.

SAMUEL S. PENNOCK, Wholesale Florist,

1612-18 LUDLOW ST., PHILADELPHIA, PA.

GEO. A. SUTHERLAND, 34 Hawley St., BOSTON.

Telephone 1270 Main.

BEST BOSTON FLOWERS. All Supplies.
An entire floor Devoted to Stock and Manufacturing. Distributing Agent for United States for the wonderful



LETTER, unequalled for design work. Script, any color, 3/4c a letter. Block letters, 1 1/2c each. The most elaborate design work to order in a few minutes.

GENERAL AGENTS:
H. BAYERSDORFER & CO., Philadelphia.
REED & KELLER, New York City.

A FULL STOCK OF SEASONABLE FLOWERS.

CITY HALL CUT FLOWER MARKET

WELCH BROS., PROPS.

9 CHAPMAN PLACE, **Boston, Mass.**
15 PROVINCE STREET.

THE NEW YORK CUT FLOWER CO.

55 and 57 West 26th St.,
WHOLESALE FLORISTS,

Daily Reports. Weekly Payments.
TELEPHONES: 2239 Madison Sq. J. A. MILLANG,
203 1/2 Madison Sq. MANAGER.

Cut Gladiolus Spikes

of the HIGHEST QUALITY, in lots of from 100 to 100,000. Pink, scarlet, crimson, white, light, yellow, blue, lavender and heliotrope; in fact, almost every shade imaginable.

Write for prices and particulars, stating your requirements.

ARTHUR COWEE, "Meadowvale Farm," Long Dist 'Phone, BERLIN, N. Y.
U. S. Representative and Grower of GROFF'S HYBRIDS.
Watch this space for bulb advertisement later.

GEORGE SALTFOORD, Wholesale Commission Florist,

46 West 29th Street, **NEW YORK.**

Fair dealing and prompt returns guaranteed.
Correspondence solicited.

ROVATZOS & MOLTZ

Buy and Sell... **FLOWERS** on Close Margin.

Headquarters, 56 West 26th Street,

WHITE, Opposite Cut Flower Exchange,
TELEGRAPH OR TELEPHONE. **NEW YORK CITY.**

N. F. MCCARTHY & CO. Best Quality CUT FLOWERS and Supplies,

Tel. 734 and 64 Main. 84 Hawley St., BOSTON.

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg, 6th Ave. and W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock
Every Morning

DESIRABLE WALL SPACE TO RENT
FOR ADVERTISING.

JOHN DONALDSON, Secretary.

Hardy Ferns...

Everything and anything in Florists' Hardy Supplies at lowest prices. Estimates on large orders on application. Prompt delivery.

ABBOTT FERN CO., 14 Brattle St., BOSTON, MASS.

Wholesale Flower Markets

Boston, Sept. 10.

Roses, Beauty, extra.....	10.00@18.00
" " medium.....	5.00@ 8.00
" " culls.....	.50@ 2.00
" Bride, Bridesmaid, Meteor.....	.75@ 2.00
" extra.....	4.00@ 6.00
" Kaiserin, Carnot.....	3.00@ 5.00
Sweet peas.....	1.50@ .20
Carnations.....	.50@ 1.50
Asters.....	1.50@ .50
Gladiol Shakespeare.....	2.00@ 4.00
Lily of the valley.....	2.00@ 4.00
Lilies, Harrisii.....	3.00@ 5.00
" Japan.....	2.00@ 3.00
Adiantum.....	.75@ 1.00
Asparagus.....	.50
Smilax.....	12.50@18.00

PHILADELPHIA, Sept. 10.

Roses, Tea.....	2.00@ 4.00
" " extra.....	4.00@ 6.00
" Beauty, extra.....	15.00@ 20.00
" " firsts.....	8.00@12.00
" Queen of Edgely, extra.....	20.00@25.00
" " firsts.....	10.00@15.00
Carnations.....	50@ 1.50
Lily of the valley.....	3.00@ 4.00
Asparagus.....	15.00@35.00
Smilax.....	10.00@15.00

BUFFALO, Sept. 11.

Roses, Beauty.....	6.00@25.00
" " Bride, Bridesmaid, Meteor.....	3.00@ 6.00
Carnations.....	1.50@ 2.00
Sweet peas.....	.10@ .35
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.10



HARDY Cut Dagger and Fancy Ferns.

A No. 1 quality \$1 per 1000.
Brilliant Bronze and Green Galax, \$1 per 1000, in 5, 0 0 lots.
Laurel Festooning, 4, 5 and 6c per yard. Orders by mail, telephone or telegraph promptly attended to. Discount on large orders. L. D. telephone 2618 Main.

HENRY M. ROBINSON & CO., 32-36 Court Sq., Boston.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

FANCY OR DAGGER FERNS

FIRST QUALITY 50 CENTS PER 1000.
BRONZE OR GREEN GALAX \$1.00 PER 1000.
LAUREL FESTOONING, just the thing for summer decorations, only 4, 5 and 6c per yd. Discount on ferns and laurel in large quantities.



Millington, Mass.
Tel. office, New Salem.

Galax

Bronze or Green, \$1.00 per 1000.
SOUTHERN SMILAX, best quality, 50 lb. case \$6.00; 35 lb. case \$4.50; 25 lb. case \$3.75. PALM LFAVES, \$1.50 and \$2.00 per 100. FANCY FERNS, \$2.00 per 1000; DAGGER, \$1.50 per 1000. LEUCOTHOE SPRAYS, bronze and green, assorted sizes, \$1.00 per 100. SPHAGNUM MOSS, \$1.50 per bale.

L. J. KRESHOVER, 110-112 W. 27th Street, NEW YORK CITY.
Telephone call, 597 Madison Square

Give Us a Trial. We Can Please You.



Roses, Carnations and all kinds of Seasonable Flowers in stock.

WM. F. KASTING, Wholesale Commission Florist,
481 Washington St., Buffalo, N. Y.
Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

Beauties and Valley Leo. Niessen,

IN QUANTITIES.

WHOLESALE FLORIST,
N. W. Cor. 13th and Filbert Sts., Phila.

On and after Sept. 15th will be open from 7 a. m. till 8 p. m. until further notice

FOR SEASONABLE FLOWERS

SEND TO

JOHN I. RAYNOR, WHOLESALE COMMISSION FLORIST.

Telephone 1998
Madison Square 49 W. 28th St., NEW YORK.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.

Are supplying the most superb stock of SUMMER FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.
SEND FOR QUOTATIONS.

Walter F. Sheridan,
Wholesale Florist,

Telephone 902 Madison Square.

39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square.



MOORE, HENTZ & NASH

Wholesale Commission Florists,

65 and 57 West 26th St., NEW YORK CITY.

Adjoining New York Cut Flower Co. salesroom. Finest Salesroom in the Trade. Inspection Invited. All business, selling or shipping, strictly commission.

WHOLESALE WILLIAM GHORMLEY, COMMISSION
RECEIVER AND SHIPPER OF FRESH CUT FLOWERS. DAILY STOCK OF ALL THE CHOICEST VARIETIES FROM BEST GROWERS WHO SHIP TO NEW YORK.

ORCHIDS, ROSES, CARNATIONS, VALLEY.

Telephone 2200 Madison Square,

57 WEST 28th STREET, NEW YORK CITY.

JOHN YOUNG

Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.

51 West 28th St., NEW YORK.
Tel. 1905 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN NEW YORK CITY FOR

Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

WM. H. GUNTHER,
30 West 29th St., New York.
Telephone 551 Madison Square.

Frank Millang

Open from 6 a. m. to 5. p. m.

Cut Flower Exchange, 55-57 W. 26th St.
Phone 299 Madison Square. NEW YORK.

ESTABLISHED 1872.

JOHN J. PERKINS,
COMMISSION FLORIST,

Solicits Consignments or Shipping Orders. Satisfaction given in both.

Write for Terms. 115 West 30th St., New York.

Bonnot Bros.

WHOLESALE FLORISTS.

55 and 57 W. 26th St. New York.
Cut Flower Exchange,

OPEN 6:00 A. M.

An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.
Traendly & Schenck
NEW YORK CITY,

38 W. 28th Street, Cut Flower Exchange.
New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

NEW YORK, Sept. 10.

Roses, Beauty, select.....	12.00@20.00
" " medium.....	5.00@12.00
" " culls.....	5'@ 2.00
" " Bride, Bridesmaid.....	.25@ 5.00
" " Liberty, Meteor.....	1.00@ 5.00
" " Testout, Kaiserin, Carnot	1.00@ 6.00
Carnations.....	.25@ 1.00
Lily of the valley.....	1.00@ 3.00
Lilies.....	3.00@ 5.00
Asters, per 100 bunches	1.00@ 3.00
" " sprays.....	.25@ .75
Sweet peas, per 100 bunches,	1.00@ 2.00
Cattleyas.....	25.00@ 50.00
Smilax.....	4.00@ 8.00
Adiantum.....	.50
Asparagus.....	35.00@ 50.00
" " Sprenger, doz. bun.	2.00@ 3.00

RELIABLE AT ALL SEASONS.

Best Flowers.

REASONABLE PRICES.

J. K. ALLEN

Telephone 167 Madison Square.

OPEN AT 6 A. M. DAILY.

106 W. 28th St., NEW YORK.

FORD BROS.

Receivers and Shippers of

FRESH FLOWERS,

111 West 30th St., NEW YORK.
Telephone 157 Madison Square.

Julius Lang

53 West 30th Street, NEW YORK.

REPRESENTS THE BEST GROWERS OF

ROSES, CARNATIONS, VALLEY.

TELEPHONE 280 MADISON SQUARE.

ALEX. J. GUTTMAN,

Wholesale Commission Florist,

A full supply daily of the choicest New York and New Jersey FLOWERS.

62 W. 29th Street, NEW YORK CITY.
Telephone 1738 Madison Square.

A. H. LANGJAHR,

Wholesale Commission Florist,

BEST FLOWERS SHIPPED AT LOWEST NEW YORK PRICES.

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TELEPHONE 939 MAIN.

...GEO. M. KELLOGG...

Largest Grower of... Cut Flowers
In the West.

Give us an order and we will please you.

Our Greenhouses at PLEASANT HILL, MO.

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EDW. C. HORAN.

47 WEST 28TH ST.,

Tel. 421
Madison Square,

.....NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wettersfield, Conn., Sec'y and Treas.

A. W. ANNANDALE, of the Steele, Briggs Seed Company, Toronto, returned from Europe August 16.

THE Steele, Briggs Seed Company, Toronto, expects important results from its trials of sugar beets which are now in the third year.

THERE are reports of still further shortages in the California onion seed crop. C. P. Braslan also reports radish light and carrot very short.

D. M. FERRY is a candidate for appointment to the United States Senate to fill the unexpired term of the late Senator McMillan, of Michigan.

VISITED TORONTO: F. R. Pierson, Tarrytown-on-Hudson, N. Y.; R. W. Clucas, of Clucas & Boddington Company, New York; Walter Mott, of Jamestown, N. Y.

H. SIMMERS, of the firm of J. A. Simmers, Toronto, states that the sales of field seeds in July and August were not as heavy as the business of the earlier months of the year warranted.

S. B. DICKS, of Cooper, Taber & Company, London, Eng., is calling upon the trade in Canada, having reached Hamilton September 4, but does not talk very encouragingly of European seed crops this season.

THE Braslan Seed Growers' Company, of San Jose, Cal., has been incorporated with \$75,000 capital stock and the following directors: O. A. Braslan, E. O. Pieper, M. W. Williams, C. P. Braslan and Milton Bernard.

JOHN A. BRUCE and F. C. Bruce, of Hamilton, Ont., returned August 28 from the coronation festivities in England. John A. (now retired) is the founder and F. C. the present head of the firm of John A. Bruce & Company.

Trouble With Pearl Tuberoses.

ED. AM. FLORIST:—With regard to Peter Crovetto's complaint of lack of success with Pearl tuberoses in Italy, I would say that we are growing here at Magnolia, N. C., about 175,000 spikes for flowers and are greatly troubled this season by exactly the same blight your correspondent mentions. We find that it is caused by the heat from the sun. When we have a few cool nights and the sun is not so extremely hot there is a marked difference in the flowers. As autumn approaches they will become fine. H. E. NEWBURY.

Mushroom Spawn Fresh Importation
FERTILE. PRODUCTIVE.
 English in bricks, per 100 lbs., \$8.50 f. o. b. New York, \$7.00 f. o. b. Chicago. Write for prices on quantity.
Vaughan's Seed Store,
 CHICAGO. NEW YORK.

BURPEE'S SEEDS PHILADELPHIA.
 Wholesale Price List for Florists and Market Gardeners.

The Everett B. Clark Co.
 WHOLESALE GROWERS AND DEALERS IN
Garden Seeds

SPECIALTIES:
ONION, Southport Globes, Turnip Seed and Sweet Corn, also Beet, Parsnip, Carrot, Cabbage.

With an experience of thirty-five years in selling and labeling our crops as **STRICTLY NEW ENGLAND GROWN**, the Seedsman can answer all questions without flinching when asked by the market gardener where the seeds were grown.

The Everett B. Clark Co., Milford, Conn.

ESTABLISHED 1802

THORBURN'S SEEDS

FREESIAS, CALLAS, LILIUM HARRISII, ETC., ETC.

if our trade bulb list has not been received, we shall be glad to send it on application.

J.M.THORBURN & CO.
 (Late of 15 John Street)
 36 CORTLANDT STREET, NEW YORK

WM. LARZELERE & CO.
 (Established 1866.)
Custom House Brokers
 Licensed under U. S. Laws.
 Notaries Public authorized to administer Customs declarations.

PHILADELPHIA: 126 South 4th St.
NEW YORK: 136 Water Street.

With correspondents in principal ports of the U. S. and Europe. All matters relating to Customs laws attended to on both Imports and Exports. Information given as to classification and values, and method of shipping goods to and from the United States. Florists can save time and money by consulting us in writing or person at our Philadelphia or New York offices.

Begonia Gloire de Lorraine.
 2 1/2-inch pots, \$1.25 per doz.; \$10.00 per 100.
 Rooted cuttings, \$1.00 per doz.; \$6.00 per 100.
 CASH PLEASE

HENRY EICHHOLZ, Waynesboro, Pa.
 Please mention the American Florist when writing.

2,500 Boston Ferns

Strong, from bench, for 5-in. pots, \$20.00 per 100.
PRIMULA OBCONICA, Grand. Alba, 2-in., \$2 per 100.
 Grand. Rosea, " \$2 per 100.
UMBRELLA PLANTS, 2-in., strong, \$1.50 per 100; \$12.00 per 1000.
ASPARAGUS SPRENGERI, 2-in., \$2 per 100.
ASPARAGUS PLUMOSUS NANUS, 2-in., \$3 per 100.
CHRISTMAS PEPPERS, fit for 4-in., \$1.50 per 100.
POINSETTIA, 3-in., fit for 5-in., \$8 per 100.
VINCA, 2 varieties, field clumps, \$5 per 100.
500,000 GIANT PANSIES, \$3 per 1000.
50,000 Dbl. DAISIES, Snowball, Longfellow, Giant.
5,000 FORGET-ME-NOIS, 2 varieties, \$5 per 1000.
 Contracts taken for growing Double Petunia cuttings and plants, 4) varieties. **CASH.**

BYER BROS., CHAMBERSBURG, PA.

Primroses

CHINESE, single mixed, fine Per 100 \$2.00
FORBESI, "Baby" 2.00
OBCONICA Grandiflora 2.00
Asparagus PLUMOSUS, 2-in. pot 3.00
SPRENGERI 2.00
CINERARIAS, now ready 2.00
PANSY PLANTS, ready Oct. 1, 1000, \$3, .60
NARCISSUS Paper White Grandiflora 1.00
 CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

SWANLEY WHITE VIOLETS, 2 1/2-in Per 100 \$3.00
CALIFORNIA VIOLETS, field clumps 3.00
5,000 SPIRAEA, Anthony Waterer, 2 to 3 ft 7.00
5,000 VINCA MAJOR VARIEGATA 5.00
5,000 SHRUBS AND VINES, see list.
50,000 STANDARD CANNAS, including best pink sorts, \$3.00 up. Cash.
BENJ. CONNELL, West Grove, Pa.

Adiantum Cuneatum.

Per 100
 Clumps for 5-inch pots \$6.00
Umbrella Plants, strong, 4-inch 4.00
Coleus Thyrsoides, for winter-blooming, 2-inch, \$4.00; 3-inch 6.00
 Twenty-five at hundred rate.

J. A. WIBE, Box 125, Downers Grove, Ill.
 Please mention the American Florist when writing.



MASTERPIECE.

MIGNONETTE, TRUE MACHET. Trade pkt., 10c; ¼ oz., 25c; oz., 50c; 2 ozs., 75c; ¼ lb., \$1.25.
CALCEOLARIA HYBRIDA, choicest mixture, pkt. 50c

10 PER CENT discount on flower seed orders amounting to \$2.00 and over for Cash with order.

PANSIES

VAUGHAN'S "INTERNATIONAL"

Received the only reward for Mixed Pansies at the World's Fair. It is to-day better and more complete than ever. It contains the cream of the stock of 10 Pansy specialists. There is no better mixture to existence, as all the florists who saw or used it can tell you. Price per oz., \$10.00; ¼ oz., \$5.00; ½ oz., \$1.50; trade pkt., 50c.

VAUGHAN'S "GIANT MIXTURE."

This mixture is specially made by us from all the separate colors of Giant Tricolor, the Giant Bugnot and Cassier and several special strains which cannot be had any other way. If your trade demands large flowers there is no better mixture. Price, ¼ lb., \$14; oz., \$4; ½ oz., 60c; td. pkt., 25c.

MASTERPIECE--New Giant Curled.

This strain comes nearer to "Double Pansies" than anything ever introduced under that name. In reality the number of petals is the same as that in other Pansy flowers, but they are crimped and curled in such a fashion that the flowers appear double. The flowers are of enormous size, often 3 inches across, and the color variations and combinations are odd and striking. Pkt., 50c; ½ oz., \$1.00.

SWEET PEAS *Blanche Ferry* and *Extra Early Blanche Ferry*, per ¼ lb. 10c; lb., 25c; 5 lbs. for 100.
Earliest of All, pink and white, ¼ lb., 10c; lb., 25c; 5 lbs., \$1.25
Mont Blanc, earliest white, ¼ lb., 20c; lb., 70c.
Lady Grisel Hamilton, best lavender, ¼ lb., 15c; lb., 40c.

FOR COMPLETE LIST SEND FOR CATALOGUE.

"Vaughan's International" Primrose Mixture. Unquestionably the best mixture of Chinese Primroses. It contains the largest variety of the best selling colors. Flowers large, beautifully fringed, borne in large clusters well above the rich green leaves. Pkt. (250 seeds) 50c; 5 pkts. (1250 seeds) \$2.00.

Cineraria **VAUGHAN'S COLUMBIAN MIXTURE.** A mixture of the best English and German strains, unsurpassed. Pkt. (1000 seeds) 50c; 3 pkts. \$1.25.
Cineraria **HYBRIDA**, large flowering, white, blood-red or crimson, double white or best double mixed, each, per trade pkt., 3c.

VAUGHAN'S SEED STORE, 14 Barclay Street, New York. 84-86 Randolph St. Chicago.

H. Wrede, LUNEBURG, GERMANY PANSY SEED.
 155 First Prizes, the highest awards Chicago, Hamburg 97, Paris 1900. 1000 Seeds, finest mixed, 25c. 1 oz. " " \$2.25
 Price List on application. Cash with order.

FAXON'S "WHITE HOUSE" PANSIES.
 The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture. In Trade Packets at \$1.00 each.
M. B. FAXON,
 Lock Box 1528, BOSTON, MASS.
 Correspondence solicited.

BARGAINS IN ROSES.
CLEARING SALE AT VERY LOW PRICES.
Clean Vigorous Plants. 100 1000
 Brides, Kaiserins, 3-inch.....\$1.00 \$35.00
 Golden Gates, Meteors..... 4 00 35.00
 Brides and Maids, 2-inch..... 2 00 20.00
CARNATIONS Splendid, branched plants, well-grown: *Flora Hill*, *Marquis*, *Joost*, *Armazidy*, *Triumph*, *Scott*, \$5.00 per 100; \$40.00 per 1000. *Prosperity*, \$8.00; *Mrs. Bradt*, \$6.00.
W. H. CULLETT & SONS, Lincoln, Ill.

20,000 Healthy Strong Field-Grown Carnation Plants
 All cuttings taken from flowering stems: 15,000 *Lizzie McGowan*, \$3.00 per 100 3,000 sport of *McGowan*, white, more dwarf and robust, \$3.00 per 100. 3,000 *Russell*, good pink, moves easily, \$1.00 per 100.
AARON KEITER, Parker Ford, Pa.

CARNATIONS FOR SALE or EXCHANGE.
McGowan, *Scott*, *Kitty Clover*, *Tidal Wave* and a pink seedling very light in color and much better variety than *Scott* ever was. All plants in fine shape. At \$4.00 per 100, except seedling which is \$6.50. Will exchange for violets, double or single; *Asparagus Plumosus*, or good scarlet Carnation. If anything else to exchange write.
E. WICKERSHAM & CO., POTTSTOWN, PA.

HERRON....
Carnation Grower,
OLEAN, N. Y.

CARNATIONS!

FINE, LARGE, HEALTHY FIELD-GROWN PLANTS.

	Per 100	Per 1000		Per 100	Per 1000
Flora Hill	\$7.00	\$60.00	Marquis	\$5.00	\$40.00
White Cloud	6.00	50.00	Guardian Angel	5.00	45.00
Norway	6.00	50.00	Prosperity	5.00	40.00

WIETOR BROS., 51 Wabash Ave., Chicago.

Field-Grown CARNATIONS
STRONG, HEALTHY PLANTS. *Norway*, *The Marquis*, *Lippincott*, *Joost* and *Genevieve Lord*, \$5.00 per 100. *Wm. Scott*, \$3.50 per 100. Cash with order. Satisfaction guaranteed.
GEO. R. GEIGER, NAZARETH, PA.
FOR SALE
Carnation Plants.
 175 G. H. CRANE.
 375 MRS. F. JOOST.
 Good stock. Apply to
A. LAUB & SONS, Hughsonville, N. Y.

A Number One Carnation Plants.
 200 G. H. Crane at.....4c 400 *Flora Hill* at.....4c
 100 *Bradt* at.....4c 200 *White Cloud* at.....3c
 400 *Marquis*.....3c
 These plants are fine and will please you.
Write KRING BROS., Fairbury, Ill.

Carnations, Geraniums Cannas, Etc.
 Prices quoted upon application.
The Cottage Gardens, Queens, L. I.

2,000 ROSES

Brides and Maids

Beautiful strong plants in 3½-in. pots, 8 to 12-inch tops and in perfect condition. Prompt shipment. Cash please.
J. T. LOVETT, Little Silver, N. J.

FIELD-GROWN CARNATIONS
 400 *Daybreak*, 400 *Triumph*, 400 *Marquis*, at \$5.00 per 100; \$45.00 per 1000 25) at 1000 rates. Cash with order. All other varieties sold.
W. SABRANSKY, KENTON, OHIO.

CARNATIONS

Fine, Strong, Healthy Plants.
Marquis, *Ethel Crocker*, *Wm. Scott*, *Daybreak*, *Peschelow*, *Flora Hill*, at \$4.00 per 100.
LEROY L. LAMBORN, Alliance, O.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.
 CHAS. A. ILGENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.
 Twenty-eighth annual convention, Detroit, Mich., June, 1903.

P. S. PETERSON & SON say that the fall planting of ornamental nursery stock promises to excel all previous records.

WHATEVER fall planting of nursery stock can be accomplished is just so much gained; there is always enough to do in the spring.

THE annual convention of the American League of Civic Improvement will be held at St. Paul September 24 to 26. A diversified and comprehensive programme has been prepared, Prof. Chas. Zueblin, of the University of Chicago is president, and E. G. Rutzahn, of Dayton, O., corresponding secretary.

NEW CASTLE, IND.—Myer Heller and family are at home from Groton, Conn., where they have been spending the summer.

SOUTH SUBBURY, MASS.—Henry N. Eaton made an assignment to W. W. Rawson on September 5, for the benefit of creditors.

BUFFALO, N. Y.—Wm. Scott has been at the Industrial Exhibition, Toronto, this week, officiating as judge in the cut flower classes.

NORTHAMPTON, MASS.—The stock of A. Parks, who failed recently, has been purchased by C. H. Pierce and Mr. Parks will conduct the business for him.

PROVIDENCE, R. I.—Timothy L. O'Connor was married on September 9 to Mrs. Emma T. Baingan, reputed to be one of the wealthiest women in the state.

Asparagus.

50,000 Asparagus Plumosus Nanus, extra strong bright clean plants, 2½-inch, \$3.50 per 100.

Sprengeri, fine strong plants, 2½-inch, \$3.00 per 100.

Boston Ferns, 2½-inch, \$3.00 per 100; 8-inch, 75c each.

25 Fine Rubber Plants, 3 feet, \$1.00 each. The lot for \$20.00.

CASH PLEASE.

A. J. BALDWIN, NEWARK, O.

If it is grown in **Florida**, we supply it.

Florida grown **CYCAS LEAVES**, fresh or prepared; **PALM LEAVES, TRUNKS, CROWNS, SPANISH MOSS, FLORIDA ORCHIDS, "COONTIE"**, etc., etc.

Seminole Palm Co., Haines City, Fla.

Cyclamen Giganteum!

Extra Strong, 3-inch, \$5.00 per 100.
 Cineraria Grandiflora, finest dwarf, \$1.00 per 100; 300 for \$5.00.
 Chinese Primrose, \$2.00 per 100. Cash.

J. W. MILLER, HATTON, PA.

ROBT. CRAIG & SON,
Roses, Palms

and Novelties in Decorative Plants.

Market and 49th Sts., Philadelphia, Pa.

California Privet.

Any Size Desired up to 6 Feet.

Contracts for immediate or future delivery solicited.

Very attractive prices on car load lots, either of a single size or assorted sizes.

J. T. LOVETT, LITTLE SILVER, N. J.

B. & A. SPECIALTIES

ENGLISH MANETTI.....\$12.00 per 1000

FRENCH MANETTI.....\$10.00 per 1000

ASK FOR FALL CATALOGUE NOW READY.

BOBBINK & ATKINS, Rutherford, N. J.

Strawberry Plants.

FROM POTS. Well established young plants of Clyde and Wadfield, (both immense croppers), for planting now and in August. Warranted to produce a full crop of the finest berries next spring. Price 50c per doz.; \$2.00 per 100.
 P. S.—100 planted now will give an ordinary family all they can use.

F. A. BALLER, BLOOMINGTON, ILL.

50,000

AZALEA AMOENA

\$12.50 per 100, \$100.00 per 1000.

10,000 AMPELOPSIS VEITCHI AND WISTARIA SINENSIS, \$1.00 per 100; \$25.00 per 1000.

YUCCA FILAMENTOSA, \$1.50 per 100; \$10.00 per 1000.

Send for trade list of seedlings and ornamental stock.

SAMUEL C. MOON, Morrisville, Pa.

Look at This.

The largest and finest standards of **Hydrangea Paniculata Grandiflora** in the country at reasonable rates. Set did standards of Forsythias and Weeping Lilacs, all in true tree form and carefully staked. Immense blocks of Spiraea Anthony Waterer, S. trilobata, Viburnum toment sum and all the fine shrubs on the market.

HOOPES BRO. & THOMAS,
 Maple Ave. Nurseries, WEST CHESTER, PA.

600,000

CALIFORNIA PRIVET.

1, 2, 3 and 4 YEARS OLD.

1, 2, 3 and 4 FEET.

1, 2, 3 and 4 DOLLARS PER 100.

Write for 1000 Rates and Trade List.

J. H. O'HAGAN, ROSE VIEW NURSERIES, LITTLE SILVER, N. J.

NEW FRUITS.

Golden Mayberry, strong transplants,	100	\$4.00
Iceberg Blackb rry. "	"	4.00
Rathun Blackberry "	"	3.00 25.00
Cumberland Raspberry, "	"	3.50 30.00

The Conard & Jones Co, West Grove, Pa.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

CALIFORNIA SEEDS and PLANTS

Burbank's Shasta Daisy Seed, 25c per 100; \$2 per 1000; \$18 per oz.

Asparagus Sprengeri Seed, \$1.60 per 1000; 5,000 for \$6; 10,000 for \$11.

Pansy Giant Mixed, \$1 per ounce; \$10.00 per lb.

PLANTS.

Burbank's Shasta Daisy, 2-in., \$10 per 100; 3½-inch, \$15 per 100.

Calla Bulbr, 1st size, \$4.00 per 100.

Asparagus Plumosus Nanus, fine 2½-in., \$3 per 100; \$25 per 1000.

3½-inch, extra fine, \$5 per 100; \$40 per 1000. 250 plants at 1000 rate. Express prepaid.

CALIFORNIA GARNATION CO.
 LOOMIS, CAL.

SPECIAL Clearing Sale.

To Move Quick, we will offer the following stock, in first-class condition and true to name. If you have any use for the following, don't miss this opportunity.

15,000 Geraniums. All from 2½ inch pots—Jean Viand \$3.00 per 100; Dutchess of Orleans (the variegated wonder), Beaute Poitevinia, E. G. Hill Alp. Riccard, Mme. Jaulin, Mme Bruant, Athlete, Thos. Meehan, Kelway, Morton, \$1.75 per 10; S. A. Nutt and Frances Perkins, the leading bedders, \$1.51 per 100; \$15.00 per 1000.

25,000 Smilax, extra strong plants from 2½ inch pots (B. C.), \$1.00 per 100; \$8.00 per 1000.

10,000 Asp. Sprengeri, strong plants, from 2½-inch pots, \$1.50 per 100; 2½-inch. (fine), \$2.50 per 100. Cash.

The W. T. Buckley Plant Co., Springfield, Ill.

LAUREL HILL Nurseries,
 F. BRUNTON
 Manager.

Importers and growers of **Choice Hardy Perennials. Native Trees, Shrubs, Specimen Evergreens.** We grow large quantities of **Iris, Paeonias, Tritomas, Phlox, Delphiniums;** stock is perfectly hardy, true to name. Send for Special Catalogue of **New Hardy Alpin Iris**, now in the press. **STOCKBRIDGE, MASS., U. S. A.**

DREER'S PALMS.

Now is the time to secure your supply of Palms for the coming season's trade. All the varieties and sizes here offered are in excellent condition and of good value.



KENTIA.

ARECA LUTESCENS.

2-inch pots, 8 to 10 in. high, 1 plant in pot.....	Doz.	100
3-inch pots, 10 to 12 in. high, 2 plants in pot.....	\$.75	\$ 6.00
4-inch pots, 15 to 18 in. high, 3 plants in pot.....	1.00	8.00
5-inch pots, 18 in. high, 3 plants in pot.....	2.50	20.00
6-inch pots, 24 to 26 in. high, 5 to 6 plants in pot.....	5.00	40.00
6-inch pots, 28 to 30 in. high.....	9.00	75.00
8-inch pots, 30 to 36 in. high, 3 plants in pot.....	12.00	100.00
10-inch pots, 42 to 45 in. high, 3 plants in pot.....	Each Doz.	\$3.00 \$36.00
	5.00	60.00

COCOS WEDDELIANA.

A good lot of 3-inch pots, 10 to 12 inches high, \$2.00 per dozen; \$15.00 per 100.

KENTIA BELMOREANA.

2 1/4-inch pots, 4 leaves, 8 to 10 in. high.....	Doz.	150	1000
3-inch pots, 5 leaves, 12 to 15 in. high.....	\$1.50	\$12.00	\$100.00
4-inch pots, 5 to 6 leaves, 15 to 18 in. high.....	2.50	20.00	180.00
5-inch pots, 6 leaves, 18 to 20 in. high.....	4.50	35.00	300.00
6-inch pots, 6 to 7 leaves, 18 to 20 in. high.....	7.50	60.00	
	9.00	75.00	
6-inch pots, 5 to 6 leaves, 24 in. high.....	Each.	Doz.	
6-inch pots, 6 leaves, 24 to 28 in. high.....	\$1.00	\$12.00	
6-inch pots, 6 leaves, 28 to 30 in. high.....	1.25	15.00	
7-inch pots, 6 leaves, 30 to 36 in. high.....	1.50	18.00	
8-inch pots, 6 to 7 leaves, 36 to 42 in. high.....	2.00	24.00	
	2.50	30.00	

KENTIA FORSTERIANA.

2 1/4-inch pots, 4 leaves 8 to 10 in. high.....	Doz.	100	1000
3-inch pots, 5 leaves, 12 to 15 in. high.....	\$1.50	\$12.00	\$100.00
4-inch pots, 5 to 6 leaves, 15 to 18 in. high.....	2.50	20.00	180.00
	4.50	35.00	300.00
	Each.	Doz.	
6-inch pots, 5 to 6 leaves, 24 to 26 in. high.....	\$1.00	\$12.00	
6-inch pots, 5 to 6 leaves, 30 in. high.....	1.25	15.00	
6-inch pots, 5 to 6 leaves, 30 to 36 in. high.....	1.50	18.00	
7-inch pots, 6 leaves, 30 to 36 in. high.....	2.00	24.00	
8-inch pots, 6 leaves, 42 in. high.....	2.50	30.00	
8-inch pots, 6 leaves, 42 to 48 in. high.....	3.50	42.00	
8-inch pots, 6 leaves, 48 in. high.....	4.00	48.00	
9-inch pots, 6 to 7 leaves, 5 feet in height.....	7.50		

PHOENIX RECLINATA.

2-inch pots.....	Doz.	100
3-inch pots.....	\$.75	\$ 6.00
4-inch pots.....	1.25	10.00
	3.00	25.00

PHOENIX RUPICOLA.

2-inch pots.....	Doz.	100
3-inch pots.....	\$1.00	\$ 8.00
4-inch pots.....	1.50	12.00
	4.00	30.00

PTYCHOSPERMA ALEXANDRAE.

A fine lot of strong 5-inch pots of exceptional value 24 inches high \$3.00 per dozen; \$25.00 per 100.

THE PIERSON FERN, (Nephrolepis Piersoni).

We are now looking orders for spring delivery of this, the most valuable fern introduced in many years, at \$9.00 per dozen; 50 plants at 60c each; 100 plants at 50c each; 5 0 plants at 45c each; 1 000 plants at 40c each.

MADE-UP KENTIAS.

3 plants in a 3-inch pot, 15 in. high.....	Doz.	100
3 to 4 plants in a 7-inch pot, 36 to 40 in. high.....	\$4.50	\$35.00
4 plants in a 9-inch pot, 42 to 48 in. high.....	2.50	each
	5.00	each

LATANIA BORBONICA.

2 1/4-inch pots, 4 to 5 leaves.....	Doz.	100	1000
3-inch pots, 5 to 6 leaves.....	\$.60	\$5.00	\$40.00
4-inch pots, 5 to 6 leaves, 13 in. high.....	1.00	8.00	75.00
6-inch pots, 5 to 6 leaves, 18 to 20 in. high.....	2.50	20.00	
	9.00	75.00	
	Each.	Doz.	
8-inch pots, 6 to 7 leaves, 24 in. high.....	\$1.50	\$18.00	
8-inch pots, 6 to 7 leaves, 30 in. high.....	2.00	24.00	
8-inch pots, 7 to 8 leaves, 36 in. high.....	2.50	30.00	

PHOENIX CANARIENSIS.

6-inch pots, 24 to 26 in. high, bushy, stocky plants.....	Each.	\$1.25
7-inch pots, 26 to 28 in. high, bushy, stocky plants.....		1.75
8-inch pots, 28 to 30 in. high, bushy, stocky plants.....		2.00

For the most complete line of General Florists' Stock see our Quarterly Wholesale List Issued September 1.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA PA.

Pansies Worth Raising.

Seed, 3/4 oz.....\$1.00
Plants, per 1000.....4.00

FERNS...

FOR JARDINIERS.

Assorted from flats, \$1.50 per 100 clumps.
Assorted from pots, \$3.00 per 100 plants.

BOSTON FERNS

From \$15.00 to \$50.00 per 100.

RUBBER PLANTS, \$30.00 per 100.

ASPARAGUS PLUMOSUS

\$5.00 to \$10.00 per 100.

ALL A NO. 1 STOCK.

Sample lots for \$2.00 worth at above rates.
All plants f. o. b. express here.

CASH WITH ORDER.

CHR. SOLTAU,

199 GRANT AVENUE, JERSEY CITY, N. J.

Field-Grown ASPARAGUS SPRENGERI

Nice clumps at \$3.00 and \$5.00 per 100.

C. WINTERICH, DEFIANCE, OHIO.



ARECA LUTESCENS, per doz.—2 1/4-inch, 75c; 3, \$1; 3 1/2, \$2; 4, \$3.
 KENTIA BELMOREANA, per doz.—2 1/4-inch, \$1.50; 3-inch, \$2; 3 1/2-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20; 6-inch, \$18.
 KENTIA FORSTERIANA, per doz.—2 1/4-inch, \$1.50; 3-inch, \$2.00; 3 1/2-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20.
 LATANIA BORBONICA, per doz.—2 1/4-in., 60c; 3, \$1; 6, \$7.20; 7, \$10.
 PANDANUS VEITCHII, per doz.—5-in., \$12; 6 in., \$18; 8-in., \$42.
 PANDANUS UTILIS, 4-in., \$3 per doz.
 NEPHROLEPIS BOSTONIENSIS, per doz.—5-in., \$3; 6-in., \$6; 7-in., \$9; 8-in., \$12; 9-in., \$18; 10-in., \$24.
 ASPARAGUS PLUMOSUS NANUS, per 100—2-in., \$4; 3-in., \$8; 4, \$12.
 ASPARAGUS SPRENGERI, per 100—4-inch, \$12.
 PHOENIX CANARIENSIS, 6-inch, \$6 per doz.
 SEAFORTHIA ELEGANS, 5-inch, \$5 per doz.
 DIACAEANA INDIVISA, 4-in., \$2; 5-in., \$3; 6, \$5; strong, \$8 per doz.
 ADIANUM, 2 in., \$4; 3-in., \$8 per 100. Small ferns for dishes \$3 per 100; \$25 per 1000.
 FERN BALLS, well furnished with leaves, \$3 to \$5 per doz.

The GEO. WITTBOLD CO.

1657 Buckingham Place, Chicago.

ASPARAGUS Plumosus Nanus.

Extra fine 2 1/4 inch better than some 3-inch, \$3.50 per 100; \$30.00 per 1000 Extra fine, 3-inch \$5.00 per 100. Sample of either, size 10c free by mail.

CASH PLEASE. H. TONG, Wholesale Grower, Ashtabula O.

PAEONIAS FOR FALL...

10 distinct, best kinds, \$10.00 per 100.
Poets Narcissus, dbl. & sgl., home grown, \$5 a 1000.
Clematis, large flowering, \$2.50 per doz.; \$16 per 100.

SMILAX

A few hundred fine heavy plants, one year, \$3 per 100.

F. A. BALLER, Bloomington, Ill.

NEW GOOSEBERRY, "VICTORIA."



The best Gooseberry in England and the Champion Berry for the London Market. It is the strongest grower, making shoots 3 ft. 9 in. in a season. Berries larger than Crown Bob or Lancashire Lad, color and flavor similar to Ashton Reds or Warrington, a late bloomer and a sure cropper, it is of a hardy constitution, growing and bearing well in Northumberland. A Victoria three-year-old bush bearing 28½ lbs. of fine large fruit was shown at the Drill Hall, London, in 1900, and got great praise from a large number of leading nurserymen who spoke very highly of it. It is as much in advance of all other Gooseberries as Victoria Plum stands above all other Market Plums.

Extract from the Horticultural Trade Journal, Aug. 14th, 1901.

A week or two ago, when Gooseberries were at their best, we visited the famous Gooseberry Growers, Messrs. Geo. Charlton & Sons, High Church Nurseries, Morpeth. Messrs. Charlton have for many years maintained a reputation at home and abroad for raising and disposing of large quantities of young trees of "Whinham's Industry," and we saw some fine healthy quarters of this favorite and prolific variety in their Nurseries. Whinham's now seems likely to be eclipsed in productiveness by the introduction of "Victoria." Messrs. Charlton & Sons have grown this variety for several years and they are now placing the young stock in commerce; an illustration on one of our pages shows the prolific nature of this variety, and what is shown in the illustration on the two shoots that are reproduced from photographs, we saw on hundreds of branches on the young trees, every shoot was alike, no blanks, each one bearing down with an enormous weight of fine large fruit, truly a most prodigious cropper; the large fruit of a pale red color were thickly set on every branch, and this we understand has been characteristic of the variety from the first. The flavor too is excellent, and all around it seems well suited for market purposes. It is also about seven days earlier than Whinham's.

Testimonial from Mr. R. S. Pal- lester, Commission Agent, and Fruit Salesman, Green Market, Newcastle-on-Tyne, who turns over many hundreds of tons of both London and Northumber- land Gooseberries in the year.

DEAR SIR:—I have very great pleasure in bearing testimony to the excellence of your "Victoria" Gooseberry. Their quality and size are remarkably fine and surpass anything of the kind I have ever had to deal with during the whole of my business experience.

Yours faithfully,
R. S. PALLESTER.

Mr. Pal-
lester has given us £16 per Ton for all the "Victoria" Berries we had to sell this season, when he could buy the best fruit in the Newcastle Market of Whinham's, Crown Bobs, Lancashire Lads and others at £11 per ton.

See top next page for prices.

Prices for our Victoria Gooseberry Trees

4 years, fine selected strong plants..... £16 per 1000; £2 per 100 | 2 years, not disbudded£9 per 1000; £1, 2s per 100
 3 years, fine selected strong plants..... £12 per 1000; £1, 10s per 100 | 2 years, ordinary..... 8 per 1000; 1 per 100
 2 years, fine selected strong plants..... 10 per 1000; 1, 5s per 100

We strongly recommend our 2 yrs. Victoria not disbudded for America as they will be a lighter carriage with a large quantity of very fine Cuttings.

WHINHAM'S INDUSTRY.

We have over 200,000 very fine plants to offer this season.

5 years, extra strong selected£6 per 1000; 14s per 100 | 3 years, early strong selected£4, 10s per 1000; 10s, 6d per 100
 4 years, extra strong selected..... £5 per 1000; 12s per 100 | 2 years, selected£4 per 1000; 10s per 100

CASH. For large orders, packages, packing free. We have raised more Whinham's Industry than any two firms in England and supplied most of the leading nurserymen in England, likewise on the Continent.

GEO. CHARLTON & SONS, High Church Nurseries, Morpeth, England.

CARNATIONS

FIELD-GROWN PLANTS.

	Per doz.	Per 100
CRESSBROOK, extra strong } 1st. \$3.00		\$15.00
early propagated, } 2nd. 2.50		12.00
NORWAY, extra.....	1.50	8.00
PROSPERITY.....	1.10	8.00
GENEVIEVE LORD.....	1.00	7.00
EGYPT.....	1.00	7.00
MERMAID.....	1.00	5.00
GOETHE.....	1.00	5.00
BEAU IDEAL.....	1.00	5.00

The above are all in good shape, ready for immediate shipment. 25 plants of one variety at 100 rate.

CHRYSANTHEMUMS.

We still have some nice thrifty young stock which we offer at \$2.50 per 100, our selection. For list see issue of Aug. 23d.

H. WEBER & SONS, Oakland, Md.

Surplus Stock of Field-Grown

Carnation Plants

Extra strong stock, \$4 per 100; \$35 per 1000.

E. CROCKER,	WM. SCOTT.
ELDORADO,	CERISE QUEEN.
DAYBREAK,	JOOST,
METEOR,	AMERICA.

J. B. HEISS, The Exotic Nurseries, DAYTON, OHIO.

CARNATIONS

Field-Grown Plants, Strong and Healthy.

850 FLORA HILL.....	\$5.00 per 100
500 GLACIER.....	5.00 "
250 ETHEL CROCKER.....	4.00 "
87 GUARDIAN ANGEL.....	5.00 "
100 MORNING GLORY.....	5.00 "
75 GOMEZ.....	4.00 "
100 MELBA.....	4.00 "
100 JAMES DEAN.....	4.00 "
100 MRS. CHAPMAN.....	4.00 "
50 ELDORADO.....	4.00 "

Grown on high soil, perfectly healthy.

CENTRAL MICHIGAN NURSERY, Kalamazoo, Mich.

CARNATIONS

LARGE, HEALTHY PLANTS.

225 W. Cloud, 125 F. Hill, 125 Lord, 250 Joost, 25 America, 25 Daybreak, \$5.00 per 100. The whole lot for \$30.00. We also have some of our RUBY KING to spare, a brilliant cerise, always in bloom, at \$6.00 per 100.

LAMPRECHT BROS., Ashland, Ohio.

100,000 Field-Grown CARNATION PLANTS

Plants now are in first-class condition. We have no stem rot.

QUEEN LOUISE.	PROSPERITY.	BUTTERCUP.	BON HOMME.
COV. ROOSEVELT.	COUDENOUGH.	IRENE.	NORWAY.
	\$7.00 per hundred.		
MRS. B. LIPPINCOTT.	MARQUIS.	VICTOR.	DAYBREAK.
GENEVIEVE LORD.	ELDORADO.	PORTIA.	C. A. DANA.
	\$5.00 per hundred.		

J. L. DILLON, - - - BLOOMSBURG, PA.

WANTED

2,000 or more Lawson Field-Grown

CARNATIONS

Send sample and price to

The NUNNALLY CO. ATLANTA, GA.

Miss Louise Faber

The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet to 6 inches to 4 feet. Flowers are of a beautiful pink, similar to a well colored Bridesmaid rose and average 2 1/2 inches. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for Jan. delivery.

FICK & FABER, SAN MATEO, CAL.

New Scarlet "ORIOLE" Carnation...

Strong and healthy field plants, \$12.00 per hundred; \$100 per thousand.

JOHN B. GOETZ, Saginaw, W. S., Mich.

All The Best CARNATIONS

Orders booked now for fall delivery.

SEND FOR PRICES.

Rotted cuttings and young plants all out.

GEO. HANCOCK & SON, GRAND HAVEN, MICH.

FIELD-GROWN Carnation Plants.

Strong and Perfectly Healthy.

	Per 100
Marquis.....	\$6.00
Norway.....	6.00
Genevieve Lord.....	6.00
White Cloud.....	5.00
Joost.....	5.00

S. J. REUTER, WESTERLY, R. I.

Field-Grown CARNATIONS

Fine, Strong, Healthy Plants.

	Per 100	Per 1000
PROSPERITY.....	\$4.00	\$35.00
GENEVIEVE LORD.....	4.00	35.00

PETER REINBERG, 51 Wabash Ave., Chicago.

FIELD GROWN CARNATION PLANTS.

Maceo, Gomez, Flora Hill, Joost, Progress, G. Lord and Marquis, \$5.00 per 100; \$40.00 per 1000. Samples by mail 10 cents.

The Albert H. Brown Co., Westboro, Mass.

Carnations...

Bradt, Norway, Morning Glory, Flora Hill, White Cloud, Crane, Marquis, G. Lord, Mme. Chapman, Glacier and Daybreak. Write for sizes and prices.

VIOLETS Imperial, M. Louise, Swanley White from 3-in., \$3.75 per 100; \$35 per 1000. L. Campbell, \$3.50 per 100, \$30 per 1000.

CRABB & HUNTER, GRAND RAPIDS, MICH.

Cincinnati.

TRADE GOOD AND STOCK MOVING BRISKLY. —ROSES OF IMPROVED QUALITY.—CLUB MEETING NEXT WEEK.—NOTES.

Business is good and a nice lot of flowers are coming in. Asters are very good and \$2 per hundred is realized for the best. Roses are coming better owing to the cool weather, while carnations are plentiful but poor in quality. There is a good demand for lily of the valley, with supply equal to demand. Adiantum cuneatum was never better. Smilax is scarce.

The Florists' Society meets at Wm. Murphy's place on Friday, September 19. Be at the end of the Elberon avenue car line and conveyances will take you to Murphyville. This will give those interested an opportunity to get a line on the new carnations and hear what Wm. Rodgers has to say about Asheville.

Robt. Greenlaw, representing N. F. McCarthy & Company, Boston, was in the city Monday.

Wm. Mann, of the Cincinnati Cut Flower Company, is on the sick list.

D.

LANSING, MICH.—J. A. Bissinger has just completed another greenhouse, 10x110 feet.

We have the largest stock of
ARAUCARIA EXCELSA
 in the country. May importation, raised from top cuttings only.

- 5-inch pots, 3 tiers, 10 inches and above.....\$.50
 - 5½-inch pots, 12 to 14 inches..... .60 to .75
 - 6-inch pots, 15 to 18 inches..... .75 to 1.00
 - Specimen..... 1.25
 - KENTIA FORSTERIANA** and **BELMOREANA**, 5½ to 6-in. pots, 25 to 30 inches high. .75
 - FIGUS ELASTICA**, 5½ to 6-in., 18 to 24 inches high, from \$4.00 to \$5.00 per doz.
 - BOSTON FERNS**, 6 inch pots..... .40
- Cash with order please. To save express mention if pots to be taken off.

GODFREY ASCHMANN,
 WHOLESALE GROWER AND IMPORTER
 OF POT PLANTS,
 1012 Ontario Street, PHILADELPHIA, PA.

BULBS, Etc.

- ROMAN HYACINTHS**, 12 to 15, \$2.75 per 100; \$24.00 per 1000.
- GRANDIFLORA NARCISSUS**, best quality, \$9.00 per 1000.
- INDIA RUBBER PLANTS**, 15 to 18 inches, \$4.20 per doz.
- GLASS**—18 boxes, 16x16, single strength, A, new, \$3.00 per box. 50 boxes, 18x20, double strength, \$4.65 per box.
- 3-inch, 2-inch and 1-inch pipe, new and second-hand, for sale. CASH.

F. WALKER & CO.,
 644 Fourth Ave. Louisville, Ky.

SPECIALTIES

ROSES, from 3-inch pots. **In Best**
CARNATIONS, for all delivery, **Varieties**
CHRYSANTHEMUMS,
SMILAX, VIOLETS.
 Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.

BEGONIA GLOIRE DE LORRAINE,
Begonia Light Pink Lorraine,
 For July and Later Delivery,
 \$15.00 per 100; \$140.00 per 1000.
Edwin Lonsdale, Wyndmoor, near Chestnut Hill, Pa.

Cyclamen Persicum Giganteum.

We offer new crop seed recently received from the most noted European specialist. We know this strain, and can safely say it is as near perfection as any offered. We can supply it in four colors and mixture, viz.:

	Per 100 Per 1000
	seeds seeds
PURE WHITE	\$.75 \$6.00
BLOOD RED .....	.75 6.00
ROSE .....	.75 6.00
WHITE, with Carmine Eye ..	.75 6.00
FINEST MIXED .....	.60 5.00

We can also furnish **Strong Plants** of the same strain in 3-inch pots:

Separate Colors, \$1.25 per dozen; \$9.00 per 100.

Mixed Colors, \$1.00 per dozen; \$8.00 per 100.

HENRY A. DREER
 PHILADELPHIA, PA.



MURPHY'S WHITE.

A commercial white Carnation, vigorous and healthy grower, early, free and continuous bloomer; stem and calyx its strongest points; a white flower and very fragrant; an enormous producer both as a summer and winter bloomer. Price within reach of all. Will be distributed beginning January 15, 1903. Facilities for rooting 300,000 cuttings. You will want it, so place your order at once.

100, \$5.00; 1,000, \$50.00;
 5,000, \$45.00 per 1000; 10,000, \$40.00 per 1000.
 I am headquarters for Estelle cuttings, \$4.00 per 100; \$30.00 per 1000. Correspondence solicited.

WM. MURPHY, Wholesale Carnation Grower,
 STA. F. CINCINNATI, O.

All Strong, Healthy, Field-Grown CARNATION Plants

At \$4 per 100; \$35 per 1000.
 500 CRANE 75 JUBILEE
 100 MARQUIS 450 DAYBREAK
 420 JOOST 50 CHICAGO
 300 MACEO.

JOSEPH LABO, JOLIET, ILL.

CARNATIONS!

Extra strong field-grown plants. 6.50 Ethel Crocker \$4 per 100; \$33 per 1000; \$160 for the lot. Sample by express, 25c. Cash with order.

PETER BROWN, LANCASTER, PA.

Field-Grown Carnations.

Fine, strong, healthy plants of Mrs. Lawson, Prosperity, Mrs. Bradt, Queen Louise, Marquis, Genevieve Lord, Ethel Crocker, Joost, Daybreak, Wm. Scott, Jubilee, Crane, America, Gomez, Maceo, Eldorado, at \$5.00 per 100, to close them out. CASH WITH ORDER. Also a few hundred **MAIDS** and **BRIDES**, 3½-inch pots, \$4.00 per 100.
M. J. LYNCH, Poughkeepsie, N. Y.

VIOLET Plants

Strong healthy field-grown plants of Lady Campbell and California, \$5 per 100; \$45 per 1000. Special rates on large lots.
RICHARD LANGLE, WHITE PLAINS, N. Y.

Field-Grown CARNATIONS

Ethel Crocker..... per 100 \$4.00
 Daybreak " 4.00
 Argyle..... " 4.00
 Hill..... " 4.00

HOLLYHOCKS for fall planting, Chater's and Allegheny strains, strong, field-grown plants..... \$5.00 per 100
CALLA BULBS, extra large size... \$7.50 per 100

Wagner Park Conservatories,
 SIDNEY, OHIO.

FIELD-GROWN Carnations
 Fine, Strong, Healthy Plants.

Per 100 Per 1000

MRS. LAWSON.....\$8.00
 MRS. BRADT..... 7.00
 ETHEL CROCKER..... 5.00 \$45.00
 QUEEN LOUISE..... 7.00 60.00
 FLORA HILL..... 5.00 45.00
 PEACHBLOW..... 5.00 40.00
 UNCLE WALTER..... 5.00

Asparagus Plumosus, 2¼-in. 4.00 35.00
W. T. & F. P. BUZZ, New Castle, Pa.

A 1 Carnation Plants

Crane, Marquis, Flora Hill..... 5 cents
 Jubilee, Daybreak, Victor..... 4 cents
 The weather here has been favorable and the plants are fine.

FRANK BERRY, Stillwater, Minn.

3,000 Dbl. Pæonias
 Dark Rose, \$8 per 100; \$70 per 1000.

3,000 CRIMSON RAMBLERS
 \$8.00 to \$12.00 per 100.

Chas. Lenker, Freeport, L. I., N. Y.

ROSE PLANTS.

CLEARANCE SALE—Brides and Meteors, \$2.50 per 100; \$19.00 per 1000.
 Reputed three times. Elegant stock. Never offered better plants. Unknown parties cash with order.

BRANT & NOE, FOREST GLEN, CHICAGO.

PALMS, FERNS, ETC.

ARAUCARIA EXCELSA.

Size Pots.	Height.	Whorls.	Each.
5-inch	12 inches	3 to 4	\$.75
5-inch	15 "	3 to 4	1.00
7-inch	22 to 24 "	4 to 5	1.50

ARAUCARIA EXCELSA GLAUCA.

Size Pots.	Height.	Whorls.	Each.
5-inch	12 inches	3 to 4	\$1.00
5-inch	14 "	3 to 4	1.25
7-inch	26 "	5 to 6	3.00

ARAUCARIA ROBUSTA COMPACTA.

Size Pots.	Height.	Whorls.	Each.
5-inch	10 inches	2 to 3	\$1.25
6-inch	14 "	3	1.75
7-inch	22 "	4	3.00

PANDANUS UTILIS.

Size Pots.	Height.	Each.	Doz.	Per 100
6-inch	20 to 22 inches	\$.75	\$ 8.00	
7-inch	24 to 26 "	1.00	12.00	

FICUS ELASTICA—RUBBER TREE. PERFECT, SHAPELY PLANTS.

Size Pots.	Height.	Each.	Doz.	Per 100
5-inch	12 to 14 inches	\$.50	\$ 5.00	\$ 40.00
5-inch	15 to 18 "	.60	6.00	

KENTIA BELMOREANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	6	18 to 21 inches	\$.75	\$ 7.50
5-inch	5 to 6	22 to 24 "	1.10	12.00
6-inch	6 to 7	28 to 30 "	1.50	18.00
7-inch	6 to 7	30 to 32 "	2.00	24.00
8-inch	6 to 7	36 "	2.50	
8-inch	6 to 7	38 to 41 "	3.50	

LATANIA BORBONICA.

Size Pots.	Height.	Each.	Doz.	Per 100
5-inch	4 to 5 character leaves	20 inches	\$.40	\$ 4.00 \$ 35.00
6-inch	7 "	20 to 24 inches	.75	9.00
7-inch	8 to 9 "	25 to 28 "	1.25	15.00
8-inch	8 "	40 to 48 inches	3.00	

BOSTON FERNS.

Large stock of all sizes pot-grown plants. Write for prices.

KENTIA FORSTERIANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	5 to 6	20 to 24 inches	\$.75	\$ 9.00
5-inch	5 to 6	26 to 28 "	1.00	12.00
5-inch	5 to 6	30 "	1.25	15.00
6-inch	5 to 6	32 to 36 "	1.50	18.00
7-inch	6	36 to 38 "	2.00	24.00
7-inch	6	4 to 42 "	2.50	
8-inch	6	44 to 46 "	3.50	
8-inch	6	48 to 50 "	4.00	

CYCAS REVOLUTA.

We can supply fine plants, well rooted, with fine, perfect crowns, in sizes from 3 to 10 lb. stems, at an average price of 40c per lb.

PHOENIX CANARIENSIS.

Size Pots.	Height.	Each.
7-inch	24 to 26 inches, stocky plants	\$1.50
9-inch	4 feet, stocky plants	3.00

ASPARAGUS PLUMOSUS NANUS.

We have a very large stock of all sizes.
 2 1/2-inch pots per doz., \$.75 per 100, \$ 5.00
 3-inch pots " " 1.00 " 8.00
 4-inch pots " " 2.00 " 16.00
 5-inch pots, very fine, " 4.00 " 30.00
 6-inch pots, " 6.00 " 50.00

ASPARAGUS SPRENGERI.

2 1/2-inch pots, per doz., \$1.50 per 100, \$ 3.50 per 1000, \$ 30.00
 4-inch pots, per doz., \$1.50 " 12.00
 5-inch pots, " 2.50 " "
 6-inch pots, " 5.00 " "

CELESTIAL PEPPER, OR CHRISTMAS CHERRY.

One of the best plants for Thanksgiving and Christmas sales. We have a large stock of well grown plants.
 3-inch pots, strong, per doz., \$.75 per 100, \$ 6.00
 4-inch pots " " 1.25 " 10.00

FIELD-GROWN CARNATIONS,

Norway..... Per 100 \$ 6.00
 G. H. Crane..... 6.00
 Estelle..... 8.00

VAUGHAN'S SEED STORE,

84-86 RANDOLPH ST., CHICAGO. 14 BARCLAY STREET, NEW YORK.
 GREENHOUSES, WESTERN SPRINGS ILL.

GRAND RAPIDS VIOLETS

Field-grown Lady Campbell and Swanley White at \$4.00 per 100. \$35.00 per 1000. Sample 10c. Cash with order.

ELI CROSS, GRAND RAPIDS, MICH.

Orders booked now—delivery in September—for my Nephrolepis Fern

"ANNA FOSTER"

Small plants, \$25.00 per 100; larger plants, prices on application
 BOSTON FERN now ready at \$25 and \$50 per 100.
 L. H. FOSTER, 45 King St., Dorchester, Mass.

Smilax!

Strong Plants, 2 1/2-inch pots ready for benching, \$1.00 per 100; \$10.00 per 1000.
 JOHN BROD, NILES CENTER, ILL.

SPECIAL ROUND-TRIP EXCURSION RATES TO NEW YORK

via Nickel Plate Road. Tickets on sale October 3rd to 6th inclusive, good leaving New York not later than October 14th. Address John Y. Calahan, General Agent, 113 Adams St., Chicago, for reservation of sleeping car space and other information. 50

VIOLETS.

Very fine, large clumps.

600 MARIE LOUISE..... } \$5 per 100
 300 CALIFORNIA..... }
 100 PRINCESS OF WALES }

Well worth the money.

GEO. SOUSTER, ELGIN, ILL.

MARIE LOUISE VIOLETS

CLEAN HEALTHY PLANTS,
 \$2.00 per 100; \$20.00 per 1000.

JOHN B RUDY, ELMIRA, N. Y.

Princess of Wales and Lady Campbell

VIOLET PLANTS.

Strong field-grown clumps from sand struck Cuttings. Ready September 1, \$5.00 per 100; \$40.00 per 1000; Samples 10 cents.

The Albert H. Brown Co., Westboro, Mass.

VIOLETS.

Large field-grown clumps, L. H. Campbell, Imperial, Princess of Wales and California, \$5.00 per 100; \$45.00 per 1000.
 Christmas Pepper, 3 1/4-inch, ready for 6-inch, \$3.00 per 100.
 Parsley, large field-grown clumps, 40c per 100; \$2.50 per 1000.
 Smilax, 2 1/2-inch, large bushy plants, \$1 per 100.
 J. C. SCHMIDT, BRISTOL, PA.

ASPARAGUS SPRENGERI

These plants have short tops and extra strong roots. Are cheaper and give quicker returns than pot grown stock. \$4.00, \$6.00 and \$8.00 per 100, according to size.

Asparagus Plumosus Nanus

Fine stock for bench planting. From 2 1/4-inch pots, \$4.00 per 100.

BEGONIA REX Best named varieties. Special price to make room, from 2 1/2-inch pots, \$4.00 per 100.

CAREX JAP VARIEGATA A very useful decorative grass, from 2 1/4-inch pots, \$2.50 per 100.

CYPERUS ALTERNIFOLIUS Bushy, outdoor grown plants in 3-in. pots, extra strong, ready for a shift, \$4.00 per 100.

DOUBLE SWEET ALYSSUM Do not forget this useful flower. Strong, bushy plants from 3-inch pots, \$4.00 per 100.

VIOLETS Princess of Wales, large field clumps, free from disease. Plant now, \$5.00 per 100; 2nd size, \$3.00 per 100. California, field-grown, 2nd size, \$3.00 per 100. Lady Campbell, pot-grown plants of this variety give better results than field-grown stock. Extra strong, from 3-inch pots, \$3.50 per 100.

PRIMROSES (Chinese.) After several years of careful tests, we are now able to offer stock from the finest imported seed. Can guarantee satisfaction. From 3-in. pots, in white, light pink, scarlet and blue, \$5.00 per 100.

Nathan Smith & Son, ADRIAN, MICH.

Please mention the American Florist when writing.

Columbus, O.

WEEK OF STATE FAIR BROUGHT INCREASE IN BUSINESS.—EXHIBITION SHOWS AN IMPROVEMENT.—VARIOUS NOTES.

Ohio State Fair week brought a little trade out of the ordinary, some of the business houses finding advantage in the thousands of visitors by making their stores attractive by decorating. This of course could not help but benefit our local trade some. The display at the fair was ahead of former years, which is largely due to Jno. D. Inlay, of Zanesville, who is a member of the State Horticultural Board. If Mr. Inlay is continued as a member of this board I think the State Fair will be marked with an improvement from this on. Mr. and Mrs. Charles, as usual, took most of the premiums, which was but a fair reward for their effort.

The Fifth Avenue Floral Company is cutting some fine asters of the Semple strain, which they are having no difficulty in disposing of. This firm is also completing two more rose houses, of which this winter's crop has already been spoken for. Some good carnations are now coming in, but most of them are rather lacking in stem. CARL.

ALLEGHENY, PA.—E. C. Ludwig reports trade good, much funeral work and several wedding decorations last week.

AT IT AGAIN

What everybody has been waiting for

Plant Auction Sales

Have commenced.

Every Tuesday and Friday at 9:30 A. M

Fill your houses with good stock and you fix the price.

N. F. McCarthy & Co.

84 Hawley St., Boston Mass

We have good customers for your surplus, too.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.

PALMS.

KENTIA BELMOREANA, 2½-inch pots, \$8.00 per 100.
 " " 3-inch pots, \$15.00 per 100
 " " 24 to 28 in., fine bushy plants, \$1.25 each; \$15.00 per doz.
 " " 30 to 32 in., perfect condition, \$1.75 each; \$20.00 per doz.
ARECA LUTESCENS, 3-inch pots, (3 plants in pot), \$12.00 per 100.
 " " 6-inch pots, (3 plants in pot), 24 inches high, \$70.00 per 100.
CYCAS REVOLUTA, at 60c, \$1.00, \$1.25, \$1.50 and \$2.00 each.

FERNS from 2¼-inch pots.

PTERIS Adiantoides, **Pteris Cretica Albo-Lineata**, **Pteris Alexandræ**, **Pteris Ouvrardi**, **Pteris Serrulata**, each, \$2.50 per 100.
ONYCHIUM JAPONICUM, \$3.00 per 100.
ADIANTUM PUBESCENS, \$3.00 per 100.
 Good assortment of **FERNS**, our selection of varieties, \$20.00 per 1000.

ASPARAGUS.

PLUMOSUS 2½-inch pots, \$4.00 per 100; 3-inch pots, \$6.00 per 100.
SPRENGERI, 2-inch pots, \$2.50 per 100; 2½-inch pots, \$3.00 per 100.
DRACÆVA GODSEFFIANA, 3-inch pots, \$1.50 per dozen.
MARANTA MASSANGANA, 2½-inch pots, \$3.00 per 100.

XXX PRIMROSES.

IMPROVED CHINESE. Ready for 3 inch pots. Well known as the finest large-flowering fringed varieties grown, single or double, \$2.00 per 100; \$18.00 per 1000. Cash. Extras added liberally.

The Home of Primroses. JOHN F. RUPP, SHIREMANSTOWN, PA.

PRIMULAS,

CHINESE PRIMROSES,

Fine plants in assorted colors, \$2.00 per 100.

Asparagus Plumosus, 2-inch pots at \$3.00 per 100; \$25.00 per 1000.

Phrynum Variegatum, out of 4-inch pots, at \$15 per 100.

Umbrella Plants, out of 4-inch pots, at \$4 per 100.

Areca Lutescens, fine stocky plants, out of 7-inch pots at only 75c each. Cash with order.

THE LIVINGSTON SEED CO.
 COLUMBUS, OHIO.

Calif'nia

ASPARAGUS PLUMOSUS,

Extra fine 2½-inch stock, \$3.50 per 100; \$30.00 per 1000. 3-inch, \$4.00 per 100; \$35.00 per 1000.

EXPRESS PREPAID.

Pansy Seed, 1902 Giant of California.
 \$1.00 per ounce. ¼ ounce at same rate.

FIELD-CROWN CARNATIONS,
QUEEN LOUISE.....\$7.00 per 100
MERMAID.....6.00 per 100

LOOMIS FLORAL CO., Loomis, Cal.

ASSORTED FERNS

Best varieties only, well grown, \$3.00 per 100; \$25.00 per 1000.

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Smilax Fine strong Smilax worth planting.
 \$1.25 per 100.

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A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

KENTIA Belmoreana and Forsteriana, extra clean and well grown plants, 2½, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

REX BEGONIA, 2 and 3-inch, \$4 and \$6 per 100.
BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.

FERN, Cordata Compacta, 2 and 3-inch, \$4 and \$10 per 100

ASPARAGUS Plumosus, 2-inch \$5; 3-inch, \$8. Sprengeri, 2 inch \$3; 3 inch, \$5, per 100.

DRACAENA INDIVISA, 4, 5-in., \$10, \$25 per 100.
ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100.

SMILAX, Vinca Var., 2 inch, \$1.00 per 100.
CAMPBELL VIOLETS, 3-inch, \$4.00 per 100.

Chinese Primrose, 2-in. \$3; 3-inch, \$5 per 100.
FIELD-GROWN CARNATIONS Portia, Peachblow, Ethel Crocker \$4 per 100; Prosperity, \$5 per 100.

Cash or C. O. D.

GEO. M. EMMANS, NEWTON, N. J.

Let us know your wants in
Smilax, Asparagus Plumosus Sprengeri, Boston Ferns, Etc.

We are headquarters in West for these goods.

Write GEO. A. KUHL, PEKIN, ILL.
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FOR SALE CHEAP!

3,000 FIELD-CROWN CARNATIONS.
900 FIELD-CROWN GERANIUMS.
150 VINCA VARIEGATA.
 Plants all in first-class condition and will sell cheap to close out. Address

CARL E. TAUBE, Opera House Flower Store
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Market People Handle Water Hyacinths

The best selling novelty to-day; will grow in any kind of dish or in fish globes. 5,000 nice large plants at \$1.00 per doz. or \$5.00 per 100. Cash with order. Gus. Knoch, Woodmere, Mich

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CHICAGO, ILLS., September 13th, 1902.

TO FLORISTS ONLY:

We promise to send free, for six months, weekly editions of our Florists' Bulletin, to the following address:

Name _____

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If you are **interested** in the Chicago Market on Cut Flowers, Seeds, Bulbs, Plants and Florists' Supplies, fill in your name and address in the above blank, tear out and mail to

McKELLAR & WINTERSON CO.

We will **INTEREST** you weekly.

45 Wabash Ave., CHICAGO, ILLS.

Miniature Baby Greenhouse



FOR CROWING SMALL PLANTS.

TWO SIZES. No. 1. 11 1/4 x 12 3/4 and 11 inches high.
No. 2. 15 x 16 1/4 and 15 1/4 inches high.
Are folded up in compact package of about one cubic foot; weight about 18 pounds.

SMALL OR NO. 1 SIZE.	LARGE OR NO. 2 SIZE.
1 house..... \$ 4.50	1 house..... \$ 6.50
2 houses..... 8.50	2 houses..... 12.50
4 houses..... 16.50	4 houses..... 24.00
6 houses..... 24.00	6 houses..... 34.50

SIEBRECHT & SON, NEW ROCHELLE, N. Y.



Invalid Appliance Co.,
MANUFACTURERS OF
COLUMBIA PLANT TUBS

"The kind that never fall apart."
If your seedman doesn't handle them, order of us direct.

FACTORY AND OFFICE:
150-160 VEDDER ST., CHICAGO.
TELEPHONE NORTH 985.

Orchids!



Arrived in fine condition: **CATTLEYA TRIANE.** The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

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S. S. SKIDELSKY,

708 North 16th St., Philadelphia, Pa.

CHEAP LIST

HARDY HERBACEOUS PLANTS

The plants are fine and in perfect condition, and I offer them at the following prices only because I have them in great surplus. A rare opportunity for parks and those about to make large plantings on private estates. **1000 rates on any will be quoted if desired.**

	Per 100	Per 100
ACHILLEA MILLEFOLIUM ROSEUM	\$3.00	
AS ILBE JAPONICA (clumps).....	3.50	
BOCCONIA CORDATA (Japonica).....	3.50	
COREOPSIS GRANDIFLORA (Golden Wave)...	3.00	
FUNKIA OVATA (Blue Day Lily).....	3.00	
EULALIA GRACILLIMA UNIVITTATA	3.00	
EULALIA JAPONICA VARIEGATA (Var'ed grass) 3.00		
EULALIA ZEBRINA (Zebra Grass).....	4.00	
HELIANTHUS MAXIMILIANI (Late Sunflower)...	2.50	
HELIANTHUS MOLLIS (Downy Sunflower) ...	2.50	
HEMEROCALLIS FLAVA (Lemon Day Lily) ...	3.50	
HEMEROCALLIS FULVA (Tawny Day Lily) ...	2.50	
HEMEROCALLIS DUMORTIERII (Gold. day lily) 3.00		
HEMEROCALLIS THUNBERGII (Jap. Day Lily) 3.50		
IRIS , German, 8-choice named sorts, 1 yr. roots 2.00		
IRIS , Japan, 20 " " strong roots 3.50		
PAEONIAS , named, 20 Kelway's divided roots 7.50		
PAEONIAS , named, 20 of Kelway's choicest sorts, 1 year roots.....	\$9.00	
PARDANTHUS SIVENSIS (Blackberry Lily)...	2.00	
PENTSTEM N BARBAIUS TORREYI	3.50	
PHLOX DECUSSATA , choice named sorts, mix. 3.50		
PHLOX SUBULATA ALBA (white Moss Pink) ..	2.00	
POLYGONUM AMPLEXICAULE OXYPHYLLUM (Mountain Fleece).....	3.50	
RANUNCULUS A'RIS fl. pl. (Dbl. Buttercup) 3.00		
RUBBECKIA LACINIATA , Golden Glow field pl'ts 1.00		
" " strong clumps 5.00		
RUBBECKIA MAXIMA (Great Cone Flower) ...	5.00	
RUBBECKIA SUBTOMENTOSA (Black-Eyed Susan).....	3.00	
SFDUM MAXIMUM (Great Stone Crop).....	3.00	
SEDUM MAXIMOWICZII (Russian Stone Crop) 3.50		
TANACETUM VULGARE CRISPUM (Fern-leaved Tansy).....	2.50	

No charge for packing. Prompt shipment. 1000 rates very low.

J. T. LOVETT, LITTLE SILVER, N. J.

SPECIAL This Week

20,000 CYCLAMEN PERSICUM SPLENDENS CIGANTEUM,
finest strain in the world, now ready for immediate shipment, extra well grown plants, well budded from 3-inch pots, \$6.00 per 100; \$50.00 per 1000. From 2 1/2-inch pots, \$4 per 100; \$30 per 1000. 250 plants at 1000 rate. Satisfaction guaranteed.

PAUL MADER, East Stroudsburg, Pa.

ONE FARE FOR ROUND TRIP

to Boston and return, via Nickel Plate Road, October 7th to 11th, account meeting of Brotherhood of St. Andrews. By depositing tickets at Boston and paying fee of 50c, extended return limit of November 12th may be obtained. Through vestibuled sleeping cars and first-class service in every respect. Cheap rates to all New England points. Write John Y. Calahan, 113 Adams St., Chicago, for particulars.

GERANIUM BARGAIN

Two-inch pot plants some of them had to be topped but they will all make good plants and are certainly a bargain at \$1.50 per 100.

20,000 Rooted Cuttings

Ready now, fine strong cuttings, all correctly labeled, at \$1.50 per 100 or \$12.50 per 1000. Jean Viaud and M. de Castellane, \$2.50 per 100 or \$20.00 per 1000.

PANSIES

The kind that make money for you when they come into bloom, per 100 by mail, 75c; per 1000 by express, \$4.00.

BONE MEAL

Best for Carnations, Roses and general use, \$3.50 per 200 lb. bag; \$32.50 per ton.

ALBERT M. HERR, Lancaster, Pa.

Springfield, Mass.

FINE WEATHER AND GOOD STOCK MAKE BUSINESS BRISK.—NOTES OF DOINGS OF THE GROWERS.

The weather has been ideal the past two weeks, although we had a slight frost September 6, early for this locality. Everyone is busy getting tender stock housed. Trade has been good in funeral work. Asters have sold well. Roses are fair for the time of year. Carnations are badly needed and from the stock that is housed we can look forward to a good supply. Chrysanthemums are in fine shape and pushing their buds in sight. A few Boston ferns are being sold but it is early yet for potted plants. The coal question is our worst trouble just now. There is no coal to be had now and when there is the price will be away up.

L. Morgan, of Longmeadow, has three houses of carnations and chrysanthemums in grand shape. His carnation Ruth Morgan and a white seedling are extra fine.

M. Aitken has completed two houses 10x50 for azaleas. Chrysanthemums, cyclamens, primulas and so forth look well.

H. Grout has housed his carnations. The stock is a little small but he is an old hand at the game and will be on time.

Mr. Beals, of Eastern avenue, is on hand with a fine stock of chrysanthemums, carnations and potted plants.

L. D. Robinson is busy getting ground ready to put up one house 20x125. He reports business good.

A. Buckleton, who grows nothing but carnations, has put in a fine lot of stock. A. B.

SOMETHING ENTIRELY NEW.

A Florists' Plate Book.

150 Plates and nearly 300 varieties for \$3.50 or three for \$10.00.

You can't do business without it. **VR & DENBURG & CO., Rochester, N. Y.**

LEADING Florists' Supply House M. RICE & CO.

Importers and Manufacturers, 918 Filbert Street, PHILADELPHIA, PA. Catalogue for the asking.

A. HERRMANN,

Cape Flowers, all colors, Cycas Leaves, Metal Designs, and All Florists' Supplies.

Send for Prices. 404-412 East 34th St. NEW YORK.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25. Manufactured by **W. J. COWEE, BERLIN, N. Y.** Sample Free. For sale by dealers.

HEADQUARTERS FOR HORTICULTURAL SUPPLIES Of Every Description.

When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

DUNNE & CO., 54 W. 30th St., New York. Telephone Call, 1700 Madison Square.

Please mention the American Florist when writing.

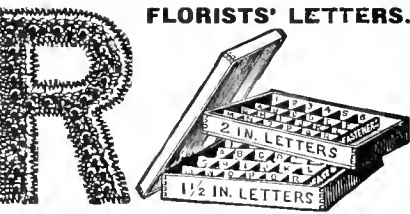
ESTABLISHED 1866 **EMIL STEFFENS** SUCC. TO R. STEFFENS. AND STEFFENS BROS. MANUFACTURER OF **FLORISTS' WIRE DESIGNS & SUPPLIES** 335 EAST 21ST ST. NEW YORK CITY.

TO KILL ALL Greenhouse Bugs USE "NICOTICIDE"

Clean and harmless as Fumigant or Spr., Ask your seedsman for it or write to

The Tobacco Warehousing and Trading Co., 1000 Magnolia Ave., Louisville, Ky.

Boston Florist Letter Co. MANUFACTURERS OF **FLORISTS' LETTERS.**



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00. Script Letters \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager, 84 Hawley St., BOSTON, MASS.

Please mention the American Florist when writing.

TIN FOIL

Plain, Fancy, Printed & Mounted, Manufactured by **The Conley Foil Co.** 521 to 541 West 25th St., NEW YORK.

KIFT'S Patent ADJUSTABLE VASE HOLDER


No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$2.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nickelled, with three clasps for 5 to 6-inch pots, each \$1.75.

KIFT'S PATENT Rubber Capped FLOWER TUBES, 1 1/4-inch diameter, per 100, \$3.50. **JOSEPH KIFT & SON,** 1725 Chestnut St., Phila., Pa. Please mention the American Florist when writing.

NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

The Model Extension Carnation Support.



Flushing, Long Island, Dec. 14th, 1901. Mr. THERON N. PARKER, Brooklyn, N. Y. Dear Sir:—I have used your Wire Carnation Support the last two years in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time. Very truly, A. L. THORNE. La Fayette, Ind., July 8th, 1902. Mr. THERON N. PARKER, Harrison, N. J. Dear Sir:—After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season. We were much pleased with the simplicity, strength and neat appearance of the support. Yours truly, F. DORNER & SONS Co.

Write for Circular and Price List. **CALVANIZED STEEL ROSE STAKES.** The Parker-Bruen Mfg. Co. Inc. 208 Jersey St., Harrison, N. J.

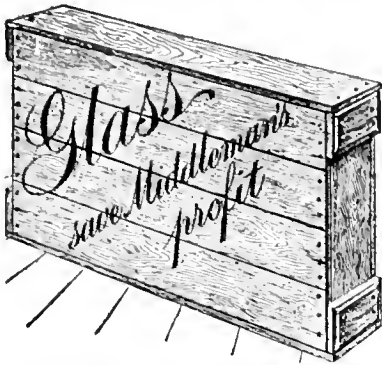
There's Business All Summer

If you will only work it up. Don't let your stock run down. Be sure to have everything on hand that a customer may call for. You will find every requisite listed and priced within the covers of our new Illustrated Catalogue. Free to Applicants in the trade only.

H. BAYERSDORFER & CO., Manufacturers and Importers, 50-56 N. Fourth St., Phila., Pa.

ONE FARE FOR ROUND TRIP

or \$8.50 to Cleveland, O., and return, via Nickel Plate Road, September 26th and 27th, with extended return limit of October 28th by depositing tickets in Cleveland. First-class equipment and service. Three daily trains. Chicago Passenger Station, Harrison St. and 5th Ave. Write John Y. Calahan, General Agent, 113 Adams St., Chicago, for particulars. 46



"Most perfect results obtained under FRENCH GLASS."

Established 1847.

SEMON BACHE & CO.

7, 9, 11 Laight Street,
NEW YORK.

FRENCH GLASS

Direct shipment from abroad.

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
170 Fulton St.,
NEW YORK

Bargains FOR Florists.

We are headquarters for a general assortment of the necessary material and supplies that you are looking for. If you are about to improve or construct, consult us.

In connection with the dismantling of the Pan-American Exposition, we have for sale:

20,000,000 FEET of fine seasoned lumber, practically new, consisting of all sizes of joists, timbers, dressed and matched boards and flooring; also sash and doors.
50,000 FEET of roofing glass.

PIPE.

We are headquarters for pipe. We offer you:

100,000 FEET of 2 to 4 inch wrought iron, lap welded casing. We can furnish this material in three ways: Either with sleeve or jacket couplings, screwed ends and threaded couplings or with expanded cast iron flanges with bolts and nuts.

1,000,000 FEET of standard black wrought iron pipe, size $\frac{3}{8}$ to 12-inch. It is second-hand but has new threads and couplings and is in first-class condition.

1,000 TONS of galvanized wire 9, 10, 11, 12, 13, 14 and 15 gauge.

50,000 FEET of 2, 3 and 4-inch cast-iron soiled pipe and fittings.

100,000 FEET of garden hose, $\frac{3}{4}$ and 1-in.

75,000 FEET of cotton rubber-lined fire hose, (rubber-lined in and outside), ranging in sizes 1 to 2 $\frac{1}{2}$ -inch.

VALVES and fittings of every kind.

BOX COILS for heating purposes.

RADIATORS, new and second-hand.

We also offer the following bargains in

Heating Boilers

50 CAST-IRON sectional heaters, capacity from 450 to 5,000 feet.

100 2 Standard Kroeschell hot water heating boiler.

FOUR 36x10 Horizontal Tubular.

FOUR 36x12 Horizontal Tubular.

FIVE 42x10 Horizontal Tubular.

FIVE 42x12 Horizontal Tubular.

SIX 48x 4 Horizontal Tubular.

TWO 54x16 Horizontal Tubular.

FOUR 60x16 Horizontal Tubular complete with all fittings.

PUMPS of all Descriptions.

A carload of shovels and spades that we are selling at \$5.00 per dozen.

We carry a complete stock of hardware and farm implements, besides plumbing material of every kind.

Write for Catalogue No. 47.

Chicago House Wrecking Co.,
W. 35th and IRON STS., CHICAGO, ILL.

Nikoteen Aphid Pink It Burns

The most convenient way of applying an insecticide ever yet devised. No pans required - No heating of irons - No trouble - Cannot injure the most sensitive blooms - Very effective. Price 60¢ per box of 12 rolls. All dealers sell it!

Skabcura Dip Co.
St. Louis - Chicago.

Sigmund Geller

Importer and Manufacturer of
FLORISTS' SUPPLIES

Looking for Fall Novelties?
LOTS OF THEM ON EXHIBITION.
108 W. 28th Street, New York.

\$23.30 TO NEW YORK AND RETURN

via Nickel Plate Road, on October 3, 4, 5 and 6, with return limit leaving New York October 14, 1902. Three trains daily, at convenient hours. Vestibuled sleeping cars. American Club Meals, ranging in price from 35¢ to \$1.00, served in dining-cars on Nickel Plate Road; also meals a la carte. Chicago depot, Harrison St. and 5th Ave. City ticket office 111 Adams St. Phone Central 2057. Write John Y. Calahan, General Agent, 113 Adams St., Chicago for particulars. 51

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The....
AMERICAN FLORIST

When you write to an advertiser.

We have an overstock of some sizes of greenhouse glass. Write for prices.

Cleveland Window Glass Co
Cleveland O

Sprague Smith Co.

PLATE AND WINDOW GLASS

Greenhouse Glass a Specialty
705 Randolph Street, CHICAGO

The Florists' Hail Asso'n Pays Losses Promptly.

Reserve fund \$10,000. For particulars address
JOHN G. ESLER SADDLE RIVER, N. J.

SIEBERT'S ZINC NEVER RUST GALVANIZING POINTS

Two sizes $\frac{3}{8}$ and $\frac{1}{2}$ 40c a lb. by mail, 16¢ extra. 7 lbs. for \$2.50; 15 lbs. for \$5.00, by express.

Over 6,000 lbs. now in use. For sale by seedsmen or
CHAS. T. SIEBERT, S'a B. Pittsburg, Pa

THE Regan Printing House NURSERY SEED FLORISTS' CATALOGUES

87-91 Plymouth Place,
CHICAGO

St. Joseph, Mo.

AUTUMN TRADE ALREADY UNDER WAY.—
ROSES NEITHER GOOD NOR PLENTIFUL.—
PERSONAL NOTES.

Florists about town are preparing for the fall trade, which has already begun to some extent. There has been considerable design work for the last month. There is a plenty of small stock for funeral work, but a scarcity of good Bride and Bridesmaid roses, which are very small.

L. J. Stuppy has been rebuilding his range of rose houses this summer and has placed in position a large steam boiler. Ed. Wiseman has taken charge of the rose houses.

Fred. Krum has returned from Excelsior Springs, where he spent a couple of weeks recuperating.

Mr. and Mrs. J. N. Kidd are in Colorado. Mr. Kidd's health is poorly this summer.

MANSFIELD, MASS.—The Hamilton greenhouse, on Warren avenue, has been purchased by Charles Chase.



MODEL EXTENSION CARNATION SUPPORT

Made with two or three circles. Endorsed by all the Leading Carnation growers as the best support on the market.

Pat. July 27, '97, May 17, '98

Prompt Shipment Guaranteed.

IGOE BROS.

226 North 9th St.,
BROOKLYN, N. Y.



PURE, DRIED SHEEP MANURE

In ton or carload lots for immediate delivery. Address

MONTANA FERTILIZER CO.

Box No. 153.

Elgin, Ill.

WE NOW OFFER

"Chemicals"

for making LIQUID COMPOST.
Dry powders all soluble in water. Composts cost less than 1/50 per gal. Correspondence invited.

EASTERN CHEMICAL COMPANY,
620 Atlantic Ave., Boston.

FLOWER POTS ALL KINDS.

STANDARD POTS SPECIALTY

List and SAMPLES FREE.

SWANN'S POTTERY MFG CO.,
P. O. Box 78 MINNEAPOLIS, MINN.

FOR SOMETHING NEW AND NICE

"Cluster of Roses Stationery"

for Florists, is the latest. Both plain and in colors. Samples free by

DAN'L B. LONG, Publisher, BUFFALO, N. Y.

AWARDED THE ONLY FIRST CLASS CERTIFICATE OF MERIT BY THE SOCIETY OF AMERICAN FLORISTS AT BOSTON MASS AUG. 21ST 1890 FOR STANDARD FLOWER POTS.



WHILLDIN POTTERY CO.

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Traveling Representative,

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108 Third Ave., NEWARK, N. J.

RED POTS

SAMPLE POT AND PRICE LIST ON APPLICATION.

C. C. POLLWORTH CO., MILWAUKEE, WIS

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST,
28th and M Streets, WASHINGTON, D. C.



GEO. KELLER & SON,

MANUFACTURERS OF

FLOWER POTS.

Before buying write for prices.
361-363 Herndon Street,
near Wrightwood Ave.,
CHICAGO, ILL.

THOSE RED POTS

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'Y,

HARRY BALSLEY, Rep. DETROIT, MICH.,
490 Howard St.

HOME VISITORS' LOW RATE EXCURSION

Sentiment inspired by patriotism has—and it is to be hoped always will afford—a one-cent-a-mile rate to enable the "Boys in Blue" to assemble in reunion at least once a year, from all points of the compass. Such a rate is authorized from all points east of Chicago to Washington for this purpose in October, 1902. Such a rate has been afforded once a year since the first reunion of the veterans of the war of '64. This especially low rate has become popular, not only for the purpose for which it was established, but for other purposes, chief among which we recognize the opportunity thus afforded to visit friends, at or convenient to, the place of reunion, because of the low rate, and because of the favorable opportunity by reason of the liberal extension of time limit for return.

On dates authorizing sale of Grand Army Excursion Tickets to Washington, for the Reunion of 1902, are also authorized similar reduction in rates, from all points west of Chicago, with time limits the same as on such tickets to Washington, excursion tickets to any point in the territory of the Central Passenger Association, on or reached by the Nickel Plate Road. For full information call on your most convenient interline ticket agent by mail, wire, phone—or in person, on

JOHN Y. CALAHAN,
General Agent Nickel Plate Road,
No. 113 Adams St., Chicago, Ill.



STANDARD FLOWER POTS!

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in., in crate, \$4.88		120 7-in., in crate, \$4.20	
1500 2 1/2 " " 5.25		60 8 " " 3.00	
1500 2 3/4 " " 6.00		HAND MADE.	
1000 3 " " 5.00		48 9-in., in crate, \$3.60	
800 3 1/2 " " 5.80		24 11 " " 4.80	
500 4 " " 4.50		24 12 " " 4.80	
320 5 " " 4.51		12 14 " " 4.80	
144 6 " " 3.16		6 16 " " 4.50	

Send pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS POTTERY, Fort Edward N. Y.
Or **AUGUST ROLKER & SONS,** New York Agents,
31 Barclay Street, New York City

Please mention the American Florist when writing.

KELLER BROS.

213-15-17-19-21-23 Pearl St.,
NORRISTOWN, PA.

Manufacturers of Standard Flower Pots, red in color, equal to the best on the market; are 16 miles from Philadelphia, best of railroad connections. We give special attention to mail orders and make special sizes to order in quantities. A postal will bring prices and discounts

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A. F. KOHR, 1521-23 N. LEAVITT ST.,
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FOR PRICES OF

Standard Pots

which for strength and porosity combined are the best on the market

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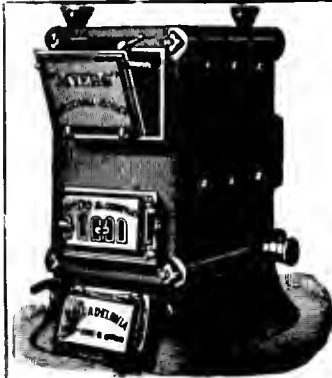
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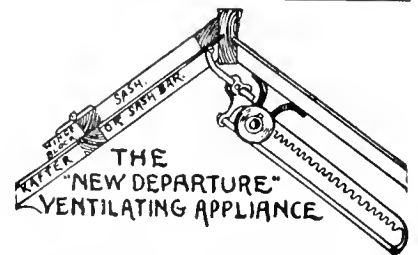
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RICHMOND, IND.

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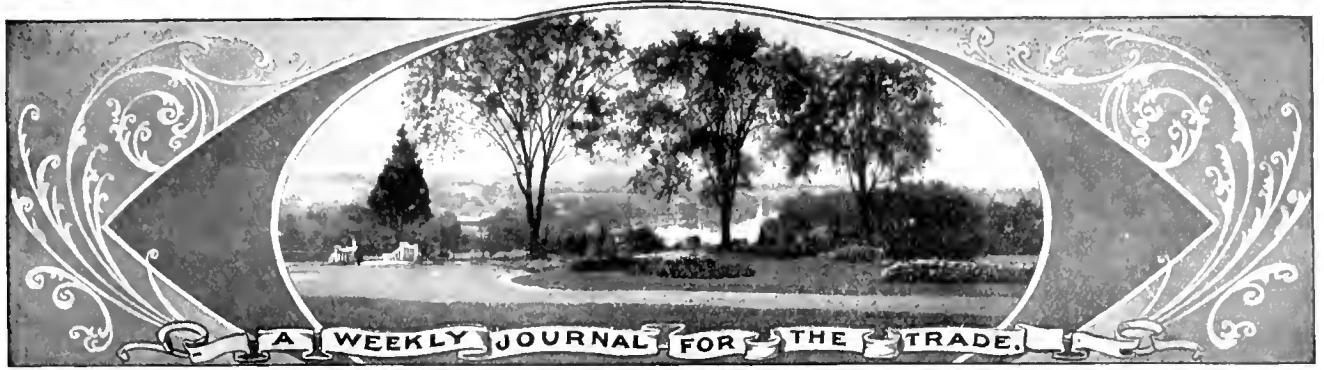
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Vol. XIX.

CHICAGO AND NEW YORK, SEPTEMBER 20, 1902.

No. 746.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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OFFICERS—ELECT—JOHN BURTON, president; C. C. FOLLWORTH, vice-president; secretary and treasurer as before. Nineteenth annual meeting at Milwaukee, Wis., August, 1903.

THE AMERICAN CARNATION SOCIETY.

Annual convention at Brooklyn, N. Y., February, 1903. ALBERT M. HERR, Lancaster, Pa., secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual convention at Chicago, Ill., November 11-15, 1902. EDWIN LONSDALE, Chestnut Hill, Pa., secretary.

AMERICAN ROSE SOCIETY.

Annual meeting at call of executive committee, LEONARD BARRON, 136 Liberty St., New York, secretary.

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CHRYSANTHEMUMS.

NEW AMERICAN VARIETIES.

Having planted most of the novelties, the new American varieties disseminated this year, the following brief notes may be useful for comparison at this date, September 15:

Adrian—Planted May 20; six and one-half feet; only few buds taken; remainder ready September 20; fine large foliage; easy to manage.

Bentley—Planted with preceding, four and one-half feet; nice, clean growth; most buds taken; very promising.

C. Holst—Planted same date; four and one-half feet; growth good; foliage ample; does not appear to be extra early, as terminal buds have just been taken; may require crown to come early.

Edgar Sanders—Planted same date; six feet; very clean growths; buds partly taken, balance ready soon.

Harry A. Fee—Planted same date; three feet; foliage good; buds just taken.

Honesty—Planted June 1; three feet; very short jointed, with exceedingly large foliage; one of the best looking of this year's introductions; buds all taken September 5.

Kansas City Star—Planted June 1; four feet; growth and foliage all that could be desired; most of the buds to come in a few days.

Marian Newell—Planted June 15; four feet; growth good; buds just taken.

Mrs. F. J. Taggart—Planted June 15; three and one-half feet; foliage and habit excellent; few crowns taken but they make little progress; terminals ready September 20, which make best flowers.

Mrs. Wm. Fraser—Planted June 15; five feet; buds taken September 10; growth strong; rather too long-jointed for the commercial grower.

Opah—Planted July 15; three feet; most buds taken by August 20; now showing color; appears to show more pink than formerly.

Oresco—Planted June 1; four feet; buds all taken September 10.

Polar Queen—Planted June 15; two and one-half feet; foliage heavy; few crowns taken, but like Eaton and Appleton, generally comes more double from terminals; ready September 30.

Pride of Elstowe—Planted June 15; three and one-half feet; mostly crowns taken, few terminals to follow. This variety badly affected with rust when received, which has ruined the foliage of most of the plants; may outgrow this, as did Golden Wedding, and become one of the standard sorts.

Prosperity—Planted May 20; three and one-half feet; very heavy foliage; exceedingly promising; buds just taken.

Did not receive Miss Jane Morgan, hence can give no comments.

ELMER D. SMITH.

SEASONABLE TREATMENT.

Nearly all varieties are setting their buds now and should be "taken" without delay, as soon as they appear. Select the center bud to make the flower, rubbing out all side buds and growths. After setting the bud the plants will commence to throw out suckers from the roots in all directions, which must be removed to keep all the strength possible in the plants. Any side shoots which may have been overlooked will also push out rapidly, drawing vigor from the plants. Extra watching will therefore be necessary to keep these down.

Sometimes when the beds have been mulched, the mulch after a while will become baked and hard, which prevents the water soaking evenly into the soil. Should this be the case go over the beds and loosen the surface of the mulch, being careful not to go deep enough to disturb the young roots that have formed in it.

Attend to the tying to prevent the stems from getting crooked and to insure a free circulation of air. Again, by keeping them tied up as needed, the plants attain a vigorous, sturdy habit not possible when this has been neglected. If there is any time that chrysanthemums need fresh air more than another, it is just now. They seem to fairly revel in the bright sunlight and cool atmosphere that we get at this season. Leave plenty of ventilation on at night, it will add lustre to the foliage, strength to the stems and insure a well formed bud.

After taking the buds the next important part in looking after chrysanthemums is to be very careful with the watering and, while they must not suffer for want of water, with a mulch on the beds, together with the extra shade from the heavy foliage, it is an easy matter to get the soil too wet. This must be avoided or the plants will receive a big check.

After the buds begin to swell applications of liquid manure may be given once a week. To start with we use about a bushel of manure to a barrel of forty-eight gallons of water, changing the manure at each watering. It is well to bear in mind that if the right texture, strength and vigor are not in the plants at present it cannot be put there by overdoses of liquid manure during the next

few weeks. It would more likely be just the reverse. Also, if you are satisfied that you have got all that is possible out of your plants up to the present date, and if this be the case they will surely show it by their strong, stiff stems and luxuriant foliage, do a little thinking as to what your plants have taken out of the soil or you may overdo the liquid fertilizer. C. W. JOHNSON.

SPECIMEN PLANTS.

Chrysanthemums are making rapid growth. From this time onward success depends very much upon the judicious use of fertilizers, either in liquid form or as a top dressing. Some plants will take liquid manure in liberal amounts; others are quickly surfeited.

Overfeeding shows itself in yellowed, stunted foliage. When this occurs we use only clear water and let them get as dry as we can with safety. Air gets into the soil and sweetens it. Too much feeding has a tendency to make the growth soft; but usually there is time enough to harden and ripen it if discontinued at the end of this month.

It is all a matter of experience and careful feeding may continue until the buds show color. It is, however, worthy of note that pink and red varieties, including bronzes, show a lack of color and also burn easily because of too long continued feeding.

We vary our ingredients. For a week we use barnyard drainings. There is nothing better when the strength is known. An over-dose will make the plants wilt badly, but usually they come out without any serious injury, by letting up for a few days. Clay's fertilizer is an excellent manure and perfectly safe to use, either as a liquid or as a top dressing, mixed with a little loam. Bowker's greenhouse chemicals may also be used with good results, and it varies the diet.

Soot water at times and weak lime water will sweeten the soil. The drainage must, however, be kept free, and this is difficult sometimes at the end of the season, when the pots are filled with roots. Punching holes through the ball to the drainage will generally relieve water-logged plants, but we have had to drill holes along the sides.

Any outdoor-grown plants should be taken up at once. If left later it will be difficult to get them into shape and they also suffer a loss of foliage if grown very large. I have recommended, in previous notes, a few stakes to keep the branches off the ground, and if this has been done, they will come up in good condition.

Outdoor grown plants, if lifted in time, and staked into presentable shape at once often make finer specimens than those grown in pots throughout the season, and, it has often happened that poor plants, especially of new varieties, which did not look promising enough at the time they should go into large pots, when planted out made good specimens. Chestnut Hill is one I have in mind now, and Pink Ivory behaves in the same way.

It will be a good plan, even though we defer staking until a week or two before exhibition time, to regulate the shoots occasionally, bringing into the center all strong shoots and carrying to the sides all weaker ones, where there is better light.

It is too late to make a good plant of a poor one. Room will be needed and poor plants should be thrown away, at least put into a pit, out of the way, if wanted for stock. This we find neces-

sary to do every season, and such gives us, at least, flowers for cutting.

Disbudding will be in order soon. Usually we limit the shoots to one bloom, but if it appears there will be spaces not well filled we allow three blooms to develop. Garza and other anemones and pompons we do not disbud.

Our plants for decorative purposes have been growing along in their own way. We would just as soon have them unshapely. They fit better into any decorative scheme, either together, when some are left to stand alone, or stand out, or when we use foliage plants. Dwarf varieties such as Midge, Mizpah and its varieties, Golden Ball and some of the dwarf pompons we grow in considerable quantity. They come in splen-



VICTOR V. MORRIS.
President Salt Lake Florists' Society.

didly for edging or color massing. We do very little disbudding, except in the case of a few of the large-blooming varieties, which are used for contrast only.

Red spider is an insidious pest, and we must spray frequently, and as long as we can. T. D. HATFIELD.

Victor V. Morris.

The president of the newly organized Salt Lake Florists' Society is Victor V. Morris. He is 29 years of age and a native of Salt Lake City, descending from a pioneer family, his grandfather and great-grandfather having borne prominent parts in the founding of the city. For more than five years Mr. Morris has been identified with the retail flower trade. He was for several years manager for the B. C. Morris Floral Company but he has recently assumed the direction of the retail stores of the Salt Lake Floral Company, which, organized a year or two ago with ample capital, is building up a large plant for the production of cut flowers. It is one of the most progressive concerns in the west and the accession of Mr. Morris to its forces is a matter of congratulation for both. He is both popular and energetic and under his guidance success lies ahead of the new society; indeed, at its second meeting eleven names were added to the original list of members and the organization now embraces practically all those in the trade. Mr. Morris is also

a leading spirit in Lodge No. 85, Benevolent and Protective Order of Elks.

Decorations in Floral Parade.

One of the most interesting features of the celebration of the semi-centennial of the town of Swampscott, Mass., on July 21, was the floral parade. We present herewith reproductions of photographs of two vehicles decorated by Julius A. Zinn, of Boston, one of which (Mr. Traiser's) was the winner of the first prize silver cup. The flowers used on this were all white, lilies, carnations, lily of the valley, and so forth, and the carriage and livery were blue. The other carriage, belonging to J. I. Taylor, was all in lavender and purple sweet peas, with a few Fair Maid carnations with bows of pink ribbon. No artificial flowers of any kind were employed.

Seasonable Plant Notes.

Cool nights have been the rule rather than the exception throughout the summer of 1902 in the eastern part of this country, and temperatures of 50° to 55° have been by no means uncommon, even during July and August. Such conditions have been very favorable for lawn grass, these low temperatures having been accompanied by abundant rains during most of the season, but are not quite so conducive to the rapid growth of plants under glass, and also necessitate considerable care in the watering of freshly potted and unestablished plants, the root growth of palms, for example, being less rapid under such conditions than it is when the prevailing weather is clear and bright and the night temperature seldom below 65°.

A sufficiently moist atmosphere is required for the successful culture of such plants, but this does not mean that the foliage should be reeking with condensed moisture in the morning, and the only way to avoid such a condition of the plants is by giving a fair amount of ventilation during the night. One does not like to begin firing early in the season, and especially so just now with the great uncertainty that prevails in the coal market, but it is usually more profitable to use a few tons of coal in this way than to give a houseful of valuable plants a severe check by overdoing the economical plan. It is safe practice to follow the plan of the successful rose grower in starting a little fire when he finds that the mildew is getting ahead and that the foliage of his roses is hung with heavy dewdrops in the morning, a condition that so often portends an attack of the insidious black spot and other tribulations.

The time is also at hand for the removal of tender plants that have been outdoors for the summer to the protecting shelter of the greenhouse, and it is well to remember that such stock does not need to be cooped up to any great extent after it is brought indoors, but on the contrary should have plenty of light and fresh air. Take into consideration the fact that these plants have been enjoying unrestricted ventilation, and if kept too close when under glass are likely to start a weak and thin growth, and thus lose some of the advantages that have been gained by their former outdoor life.

This suggestion will apply to poinsettias, Ficus elastica, stevias, solanums and other stock of a somewhat tender nature that may have been growing in the open or in cold frames, and which,



PRIZE WINNER IN COACHING PARADE AT SWAMPSCOTT, MASS.

(Decorated by Julius A. Zinn, Boston.)

while being improved in habit and condition by an open air sojourn, are likely to suffer to some extent when left out too late in the season, the poinsettias especially being liable to injury if allowed to stay out too late in the season. Such plants as azaleas, metrosideros, acacias, sweet bays and araucarias may be allowed to remain outdoors for some time yet, unless there should be danger of actual frost, these being cold house plants and remaining in better condition in the open air as long as possible.

Mignonette is a favorite flower with a great many people and usually is fairly profitable when well grown. It is at this season that the foundation is laid for the winter and spring crop of this modest but fragrant flower. A good depth of well manured soil and a low temperature, combined with full light and plenty of air, are among the essentials for successful mignonette culture, and the middle of August is considered by most growers the best time to sow the seed.

A solid bed is preferable to bench culture for mignonette, from the fact that the roots of this plant prefer to be kept cool. Although some good spikes have often been grown in rather antiquated structures, yet a good light house with provision for abundant ventilation will give the grower much advantage in the race. New soil is best and that of a rather turfy character is most favored, the best fertilizer being cow manure, though the latter is better adapted for use when not too fresh. It may be used in quite liberal proportions, one part of manure to five or six of soil, according to the quality of the latter, not being too much. A sprinkling of bone dust will also be found helpful, the whole compost to be thoroughly mixed as it is brought in.

The easiest method of sowing the seed is in shallow drills across the bed, making the drills about one foot apart and sowing the seeds rather thinly, but pressing the soil down quite firmly over the seeds. After the seedlings are up enough to allow of selection, they should be thinned out to about six inches apart in the row, and the surface of the soil kept stirred up with a small rake or weeder,

the soil being given water enough to keep it thoroughly moist without becoming sodden.

It is about this stage of the proceedings that troubles may begin, and one of the first to appear is usually a small green caterpillar similar to the cabbage worm, and also resembling the latter in having a most voracious appetite. These worms may usually be conquered by hand picking or by a light application of Paris green, but continual watchfulness is required, for it is really surprising how much injury may be done in a couple of days if these pests get a start.

A measure of prevention is sometimes adopted in the form of a cover of fine netting over the open ventilators of the

house, in order to keep out the small yellow butterfly that is the parent of the worm in question.

Greenfly is also quite partial to mignonette, but this insect may be kept in check by frequent applications of tobacco dust. The best night temperature for the growth of the plant in question is 45° to 48°, for while the flower spikes do not develop quite as rapidly under such conditions as when grown in a higher temperature, yet the quality is much better, and a longer succession of good bloom will be had under the cool treatment suggested.

Mignonette in pots is also in demand in the winter and spring, and in this case the same soil and general treatment will be required, several seeds being sown in a 4-inch or 5-inch pot, preferably the latter, and the seedlings being thinned out to three to a pot. As the plants gain size they will need a neat stake and a tie of green silkline to keep them in shape, and toward spring it may be found necessary to give the plants a watering with liquid manure about once a week to keep them in an active condition, but if well grown these pots of mignonette will usually find a ready market.

As to varieties, there are several from which to make a choice, but for pot growing a good strain of the old Miles' Spiral is very satisfactory, while for cutting either Machet or Allen's Defiance is very satisfactory, and will produce immense spikes when well grown.

Pansies for winter flowering may be grown in the same house with the mignonette if it is not desired to occupy the entire house with the one crop, the same conditions applying very well to the pansies. If one desires to use pansies to any great extent in funeral work it will be the best plan to sow named sorts in solid colors, in order to get a good supply of any particular color, but if the demand for that purpose is limited then any good strain of large-flowered exhibition pansies will answer.



DECORATED BY JULIUS A. ZINN FOR THE COACHING PARADE AT SWAMPSCOTT, MASS., JULY 21.

But pansies for winter blooming should have been sown some two months ago, and should now be large enough for transplanting to their permanent places, the pansies differing from the mignonette in the fact that the former may be transplanted at any time, while the mignonette is much more satisfactory when sown in the position in which it is to remain.

W. H. TAPLIN.

ROSES.

SEASONABLE TREATMENT.

The young stock should now be well along and no doubt much of it is ready to let go for a few early flowers. But do not make the mistake of letting every bud come, as this is very apt to weaken the plants. All of the weak and short stems should be cut back, and by cutting back quite short the next break is very apt to come stronger. It is also a good plan to leave only the strong breaks on the top of the plant and to pinch back those which come from near the base until there is a strong and stocky base to each plant. It is much better to watch each house carefully and pinch back all of the smaller plants until they have reached the proper size, permitting to bloom only those which are strong enough.

The weather has already started in quite cool and it is not safe to try and do without heat at night. The extra cost for heat will be fully repaid by having stock free from mildew and black spot.

Unless Liberty is doing exceptionally well it will be wise to keep it cut back some time yet. In order to get good, strong stems later on it is necessary to keep them in check long enough to have a large, strong plant.

Golden Gate and Ivory are very strong growers and are not liable to be bothered with mildew or spot, but they are apt to make too much brush and blind wood and there are no bad results to be feared by trimming this out.

If you have any old houses which are being carried over through another winter they will need a liberal amount of nourishment now. After they have been dried off they should be started gradually until the new eyes have started and then a top dressing should be applied. To get the best results it is best to tie them down and thereby induce the lower eyes and those along the old wood to start, as these usually make good, strong shoots.

Do not let the soil become weak and destitute of nourishment, as by keeping the plants in a growing condition you will find it much easier to keep off the black spot and mildew. R. I.

Hardy Perennial Phloxes.

[A paper by John G. Gardner, read before the Pennsylvania Horticultural Society, Philadelphia, September 16, 1902.]

The word phlox is Greek for flame, alluding to the general brilliancy of the flowers of the natural order polemoniaceae, a genus comprising about thirty species, chiefly North American, annuals and perennials, and it is on the latter I wish to address you. I will mention two types of phloxes which in the past have been divided into two sections, early and late-flowering, termed respectively *P. suffruticosa* and *P. decussata*, but at present, with so many seedlings, it is difficult to judge of the parentage and the general characters of growth are lost.

Undoubtedly the early flowering phloxes come from *suffruticosa* and the late flowering from *P. paniculata* and *P.*

maculata. In my opinion the types of the latter are the most beautiful for the garden and when planted in masses, with panicles one to two feet long, in so many forms, as densely filled with bloom as hydrangeas, and the great profusion of flowers of fine form and substance, they are a sight to behold.

The perennial phloxes are one of the most important classes of hardy plants we have to-day for the garden, the culture is so simple, as they grow in any good garden soil, blooming from May until frost, a feature not often found in hardy plants.

The perennial phloxes have a bright future and improved forms are appearing annually. We may confidently look forward to a great extension of their use as their merits become better known among the general public.

The general use of the hardy phlox has been for effect in grouping and massing in the hardy border and for cut blooms, but in the near future they will be used for bedding and massing upon the open lawn. My attention was first called to bedding the perennial phlox on the open lawn by a letter from A. E. Wohlert, of Altoona, Pa., three years ago, and his graphic account of the beauty of them took me to Altoona the second week in September.

I can safely say I was well paid, for my visit was a pleasant surprise. Mr. Wohlert had a circular bed planted with Lothair, salmon red, and bordered with Independence, while sectional beds were formed of *Etna*, bright red, and *Fiancee*, white. I must say the beds were beautiful indeed, one mass of bloom, the height ranging from one and one-half to two feet.

Mr. Wohlert assured me that they had been in bloom since the middle of July and that he planted two-year-old roots propagated from cuttings. He pinched them back the first week in May and again the first week in June, to make them branch out, and used good rich loam and watered liberally. From that time my love for the perennial phloxes became strong and at present we are great friends.

A few named varieties which have pleased me in my work, will, I have no doubt, be interesting to you.

Whites—*Fiancee*, *Independence*, *Queen*, *Snowflake*.

Whites with pink disk—*Mme. Fonnier*, *Richard Wallace*, *Mrs. James Young*.

Pinks—*William Robinson*, *Le Siecle*, *Carran de Ache*, *Lothair*.

Crimson—*Epopee*.

Reds—*Etna*, *Mme. P. Langier*, *Oberon*, *Coquelicot*.

I have made these selections not chiefly on account of large individual flowers, but mainly for density of bloom, branching habit and good growth.

The types of *suffruticosa* make beautiful pot plants for home and greenhouse decorations. Last spring I had them in bloom early in March.

The best method of propagation I have found is to lift from open ground two-year-old clumps in January and put them in the greenhouse, taking cuttings in February, which will root freely in about twenty days. Then pot in 2½-inch pots and when well rooted shift into 4-inch and 5-inch pots. Keep well pinched to make them branch and plant outside end of April. Phloxes when well handled in this way in a temperature of 60° will grow very rapidly and make good, strong, branched plants and will bloom splendidly in July, August and September.

I am pleased to say that I have some very promising seedlings which I raised the past three years from crosses of *suffruticosa* and the *paniculata* and *maculata* forms. This season I have been making trials to cross *divaricata* with the above sorts, hoping to see seedlings that will flower outside early in May. I am also using *Drummondii* to get, if possible, the beautiful colored flowers of the Texas varieties. I hope to report upon this subject later.

WITH THE GROWERS.

VAUGHAN'S, WESTERN SPRINGS, ILL.

At Vaughan's Greenhouses, Western Springs, at the time of my visit everything pretended the advent of cool nights. Plants were being hurriedly housed and precautions taken against the invasion of the frost king. In looking over the chrysanthemums it seems as though a good many of the specimen plants will be near perfection. The cuts are also looking well. There is a yellow that is due for a high place.

Begonia Gloire de Lorraine is in fine condition and is growing as freely as watercress does in a sunny stream in May.

There are a few novelties at Western Springs that must make their mark. First is an *acalypha* with large, acuminate leaves eight inches long by four to five inches wide at the broadest part. The color is a deep green ground regularly marbled with deep primrose blotches, uniformly spread over the surface. It stands heat and sun here outdoors and is one of the few sterling foliage plants recently added to our gardens. It is equally good indoors.

A pure yellow *canna*, with no markings of any kind, with good-sized flowers, compact and rather dwarf habit, is a gem and one of the most desirable among the many kinds that have a good standing. It is appropriately named *Buttercup*. Another good *canna* is *King Humbert*. It is a great advance on *Egandale*.

There are at Western Springs about two acres of phloxes and they are truly magnificent. When I was at Queens, some eighteen years ago, I ventured to push herbaceous phloxes. How hard I worked for them, and I have not let up yet. It's just beginning to dawn on many people that there is merit in this, the peer of all August flowering plants. If paeonias deserve a special committee, I am sure phloxes can go them one better. Mr. Wilson says that he felt, until two years ago, that there was no reward, but a 10,000 sale this spring has cheered him up and he is going in for 50,000 for next spring. The collection contains over eighty varieties and there is not a bad one among them. Cut these down to forty and they are grand, and if you want twenty-four you can have all gems.

The most marked improvements in the *decussata* section during the past ten years are in the width and depth of the panicles, the size and texture of the flowers and the sturdy dwarfness of the plants, together with the elaboration of all of the colors. There are no plants that have the same fiery red flowers, except perhaps *Saccolabium curvifolium*. There are no flowers that have the same soft blending of pink shades with marbled centers and there are no flowers that have as wide contrasts as the white forms, having purple and crimson eyes, to say nothing of the darker and more intermediate shades. No frost hurts them, no wind breaks them and they



PRIZE FLORAL DESIGN AT TORONTO INDUSTRIAL EXPOSITION.

J. J. Simmons, artist.

appreciate all the care given them. So much for herbaceous phloxes.

JOHN THORPE

St. Louis World's Fair.

The contract for grading the sites of the Palaces of Agriculture and Horticulture at the World's Fair has been let. The work will require the handling of 252,000 cubic yards of earth, carrying it an average distance of 500 feet. The Agriculture building, according to revised plans, will be 600x1600 feet, covering an area of nearly a million square feet, or more than twenty-two acres. In this great building will be displayed the agricultural exhibits of the states of the Union and nations of the world. The location of the building is

near the central part of the exposition grounds and its immense size, upon the elevated site which has been allotted to it, will make it perhaps the most prominent of the fifteen great exhibit palaces.

The Palace of Horticulture will stand directly south of the Palace of Agriculture and will be 400x800 feet, having an area of 320,000 square feet, or seven and a half acres. One room in this building 400 feet square will be devoted to fruits and fruit products, another room 200x200 to a conservatory with plant display and still another room 200x200 feet to the accessories of horticulture, such as implements and appliances for the cultivation and handling of fruits and plants. The elevation of these palaces is such as to afford opportunity for terraced gar-

dens and other beautiful landscape effects, while the outdoor exhibits of agriculture and horticulture will be very extensive and interesting both to the general visitor and the practical grower or expert. Frederic W. Taylor is the chief of the department of agriculture and acting chief of horticulture.

The plans for both these great palaces are now being prepared in the department of works, under Isaac S. Taylor, the director of the department, and it is the expectation that they will surpass in beauty and arrangement the similar palaces at any former exposition.

Hybridizing.

BY GEORGE BOLLES, TORONTO.

[Read before the Canadian Horticultural Association at the Hamilton convention, September 3 to 5, 1901.]

I have been asked to write a short paper on hybridizing and am pleased to do anything I can to help this branch of the profession. I cannot tell anything new to some of you, for although I have worked hard at this branch for a good many years, I don't know it all by a long way.

I have a list of eighty-seven varieties of chrysanthemums that I grew twenty-five years ago. Looking over their names I cannot trace any of them to-day; they are gone and many more with them. As far as I can remember they were nearly or quite as large in bloom as we have to-day, but we now have far better stems.

To have any success in raising seedlings you must grow plants for that purpose, as the highly fed single-stemmed bench or pot-grown plants are in most cases all petals. But grown in rather poor soil you can get pollen from most varieties, and the seed bearing plants would be better, that is, after being fertilized and kept in a house where the atmosphere is drier than the ordinary chrysanthemum house.

I always fertilize the full-petaled flowers, that is, such varieties as Viviani-Morel with Perrin, rather than Perrin with Morel. By working that way I have had very few single seedlings, the other way many.

Don't be in too great a hurry to cut the seed heads off. Leave them to get ripe. Some will not be ready before the end of January. Lay them on paper for a few days to dry, rub out and sow at once. Sow each sort in a pot by itself and label it, and when the seedlings appear (they may take three weeks or more) transplant when large enough, putting one in each small pot, using a light soil both for the seed and also for the small plants.

I always root the tops of the seedlings and grow them on the bench with the old varieties, keeping the stock plants in pots. The seedlings must be extra good to beat those already on the market, and it may take years, but go ahead and have a try. There's room on top yet.

In crossing carnations one must be careful to seed the most vigorous and healthy growers. In varieties that do not seed the seedlings will resemble the male parent. Take Scott for instance. I have had seedlings you could not tell from the parent. The same with the chrysanthemums.

Better work among your own seedlings, selecting the best each year. Keep no weak stems, even if the flower is good. The carnation of to-day is, I think, near perfection, but some want a better stem.

I would like to see some one try his hand with asters. There are some fine varieties, I admit, but they could be

improved by crossing and selecting and growing each variety by itself, pulling out all poor plants and flowers that show a big center. Without going to the trouble of crossing you can by saving seed from the double flowers improve your strain. I know that for a fact, but colored flowers will come among the white, at least that has been my experience. By making a specialty of any flower and being careful you will some day get something good.

Winter Flowering House Plants.

BY C. A. SMITH, LA BINE, QUE.

[Read before the Canadian Horticultural Association at the Hamilton convention, September 3 to 5, 1902.]

Geraniums of the single varieties make splendid plants for winter flowering. Cuttings should be taken about the first week in March, inserted in the propagating bed, and when well rooted potted into 2½-inch pots. Repot into 4-inch when these are well filled with roots. After the 4-inch size is well filled with roots repot into 6-inch or 7-inch according to the size of plant wanted. After all danger from frost is over, they should be placed outdoors in the full sun and kept well pinched back, also keeping all the blooms pinched off until about three weeks before they are wanted to flower. Then they should be given manure water once a week right through the winter.

Poinsettias, both double and single, are fine winter plants. Cuttings rooted in May and carried to one stem, flowered in 6-inch pots, make splendid bracts. I have had some ten inches across. They are best kept on the dry side at all times, for if they once get sodden they will surely lose their bottom leaves. They should be kept in the greenhouse at all times. A few old plants put out in the garden in June will give cuttings which can be rooted in sand in August, putting four or five plants in a 6-inch pot. They will flower when from ten to fifteen inches high. Given a little manure water they will last all through the winter. The soil used should be good coarse loam and well rotted cow manure with a liberal supply of sand.

Euphorbia jacquiniæflora makes one of the best plants for winter, as it lasts in any ordinary greenhouse for three or four months. Cuttings should be struck in May and when well rooted potted into 2½-inch pots, using loam and leaf mould and a little peat and sand well mixed. Put three or four into the pots and shade for a few days. When well rooted, repot into 5-inch pots using the same soil as for the first potting. Keep in the greenhouse all summer and when the pots are well filled with roots feed liberally with weak manure water. The result of this treatment will be sprays of bloom from fifteen inches to two feet long.

Primulas and cinerarias make good winter plants. Seed should be sown in April or May, pricked out into 2½-inch pots and placed outdoors in a frame. Keep slightly shaded and repot into the next size when necessary, using good coarse and rather rich soil. When the plants are well rooted in their flowering pots, they may be left out in frames until there is danger of frost, and fed once a week with manure water. A second sowing may be made in July, which will make good plants flowered in 5-inch pots. They will come into bloom during February and March.

Begonias of the different tuberous-rooted varieties are very useful. They can be rooted in sand and, when well

rooted, potted into 3-inch pots, using loam, leaf mould and cow manure. Repot when necessary until the flowering size is reached, when they should be fed liberally right through the winter. The Gloire de Lorraine makes splendid plants, either for pots or baskets. They should be kept in the house all summer and well shaded.

Cyclamens are fine plants for winter. Seed should be sown in January and placed in the warmest part of the greenhouse until the plants have made two leaves. Then they should be pricked out in shallow boxes, using three parts leaf mould and one part loam and sand. Leave until April, then pot them, using two parts loam and one part cow manure, one part leaf mould and plenty of sand. Keep the plants out in the frames as long as possible but shelter from heavy rains and midday sun. Water liberally with manure water when the buds appear.

Salvia Scarlet Dragon makes fine little plants for winter if cuttings are rooted in August, potted in good rich soil, and flowered in 5-inch or 6-inch pots. Alysums also flower well if taken up from the beds and potted about the first week in September, cutting the plants back very hard.

Browallias and gesnerias are very useful. The blue of the browallia is a color we are very short of in the winter, while the gesnerias make perfect plants till about Christmas, when they should be gradually dried off. Of course there are lots of other plants too numerous to mention, such as azaleas, cannas, fuchsias, callas and the different kinds of bulbs which make good plants for winter and are very easy of culture.

Tarrytown Horticultural Society.

At the last meeting of the Tarrytown Horticultural Society, President Wm. Scott in the chair, N. H. Diamond and Mr. Stranall were elected to active membership, Homer Hitchcock was proposed for active membership and H. Walter Webb and H. C. Graef were elected to honorary membership. Francis Gibson exhibited a vase of gladioli and some very fine asters. A very interesting and instructive essay on bulb forcing was read by Joseph Bradley, of Hastings, and was ably discussed by Messrs. Pearson, Moody, Bradley, Cockburn, McFarlane and Gibson, after which Mr. Bradley was tendered a vote of thanks.

H. J. R.

Roman Hyacinths and Lachenalias.

The *Gardeners' Magazine*, London, recommends *Lachenalia pendula* as a good combination planted with Roman hyacinths. The very soft red of the lachenalia harmonizes rather than contrasts with the pure white of the hyacinths. Sutton & Sons make favorable comment on the same point in their latest bulb catalogue and remark that many other exquisite companionships of a similar nature will occur to those who possess taste in grouping colors effectively. All of which is very true but the trouble with most gardeners is that they do not possess "taste in grouping colors effectively." A course of Schuyler Matthews or Chevreul would be of great advantage to even those who have some natural good taste and to those who have not it would enable them to refrain from the horrible nightmares in the way of combination which one frequently comes across both indoors and outside.

G. C. W.

Spraying With Paris Green.

At the recent meeting of the Canadian Horticultural Association at Hamilton, Roderick Cameron, superintendent of Queen Victoria Park, Niagara Falls, Ont., said:

"Perhaps some of you noticed that the trees, particularly the plums, along the trolley line from Hamilton to Grimsby had lost their foliage. This, in my opinion, is caused through spraying with Paris green. (Prof. Hutt gave it as his opinion that it was caused by fungus.) There are many things burned by spraying with Paris green. A little experience that I have had in this line I believe would be worth thousands of dollars to this country.

"Paris green, if it is properly used, will not harm any plant, whatever the plant may be. You can make the plant green with it and it will not burn the leaf if it is used in the right way. Take about a pound of Paris green and put it in a small can, and put enough water into the Paris green to make a soft paste. Take as much of it as will make the water as green as you want it, and spray any plants, after the sun goes down. If the sun comes out after that plant is sprayed it will certainly burn. But if put on after the sun has gone down it will not injure the tenderest plant.

"No plant is more quickly injured than the egg plant, the leaves of which are very tender. I have made the leaves of this plant so green that they were like Paris green themselves and not a burn resulted."

Philadelphia.

MARKET PEOPLE HOLD A VERY SUCCESSFUL MEETING.—PROJECT FULLY LAUNCHED.—QUARTERS LEASED AND CHARTER APPLIED FOR.—THE DIRECTORS.—LOCATION CHOSEN OUTSIDE THE WHOLESALE FLOWER CENTER.—TRADE SHOWS AN IMPROVEMENT.—STOCK IN FULL SUPPLY.

The meeting to further the cut flower market project held Thursday evening, September 11, in Horticultural Hall, was a success from every standpoint. There was a large attendance, something over fifty persons being present, and all showed the greatest interest in the proceedings. As is usual in such gatherings, a number of subjects were discussed which properly belong to committees and much talk without purpose was indulged in. A number of smaller growers seemed to have an idea that they would not be on the same footing as the larger ones, for the reason that as the stock has been subscribed for by some in amounts of fifty shares, while others have only from one to five shares, that three or four of the larger holders could get together and carry out any project they pleased. It was explained, however, that although there is a capital stock of 1,000 shares only 750 are to be issued, of which 619 have been subscribed up to the present in the names of over thirty-five persons. This seemed to set at rest this objection, but there still remained the commission man, each one of whom looked as large as the side of a house to the small grower. Several of the wholesale men were in the audience and their manly bosoms must have filled with pride when they discovered the importance of their position. Some would not hear of their admission at all; they were to be barred out unconditionally. Others thought that they might be admitted subject to such restrictions as may be found neces-



PRIZE BRIDAL BOUQUET AT TORONTO INDUSTRIAL EXPOSITION.

(J. Simmons, artist.)

sary. Finally the matter was dropped without action. The committee on site reported favoring the Potts building on Cherry street above Twelfth. The second floor contains 5,000 square feet and the third 9,000. The latter is lighted on three sides and has two freight and one passenger elevator. There is also an abundance of water and in every way it is very well fitted for the flower market. In the election of temporary trustees which followed, the following gentlemen were chosen: Joseph Heacock, W. K. Harris, Edwin Lonsdale, John Welsh Young, W. P. Craig, John Westcott and H. G. Tull. At a meeting of the directors on Saturday Edwin Lonsdale was elected president, David Rust secretary, and Joseph Heacock treasurer. Charles

Meehan has been offered the position of superintendent and is likely to accept. I believe the directors have made an admirable selection, as Mr. Meehan is thoroughly well fitted in every way for the position. On Monday last the directors visited the Cherry street building and signed the lease. It is thought that it will be nearly November 1 before the market will be open for business. Application for a charter has been made.

I cannot but feel, now that the market is about to be opened, that the question of location should have had more careful consideration. The wholesale flower center of the city is Sixteenth street above Chestnut; within one block of this point there are six establishments. This center

must be the most convenient for all parties concerned. Twelfth and Cherry streets is almost five blocks from this center and this fact should have stood in the way of its acceptance. At least half of the flowers that come to this market are handled by commission merchants who have found it to their advantage to get together as closely as possible and it seems as if it would be good policy for the growers to join them and make this neighborhood even a better center and one that will be most attractive to buyers. In New York the wholesale trade has become so centralized that a journey of two city blocks, or about equal the distance of one of ours, covers the whole district. No one who hopes to do business would now think of locating out of this center.

Things are looking a trifle brighter. The retail business is picking up a little, but there is much to be hoped for. Flowers are plentiful, almost all reasonable items being in full supply. Beauties are advancing a trifle, probably to make up for their improved appearance, as they are finer each week. In fact I do not remember such good quality at this season before. Prices range from \$1 to \$2.50 per dozen. Kaiserin and Carnot sell as high as \$6 per hundred. Brides and Bridesmaids bring from \$2 to \$4. Liberty commands \$4 to \$8. The Floral Exchange is cutting some nice blooms of Queen of Edgely, most of which go to Boston. W. K. Peacock, of Atco, N. J., is sending in his usual fine supply of dahlias. His acres of this showy fall flower are a great sight and well worthy a visit. Mr. Peacock gets wonderful results from his dahlias and is certainly the greatest expert in this country. Asters are holding out well but have commenced to deteriorate, the flowers being smaller and the stems weaker. There are no chrysanthemums in sight as yet.

Robert Crawford has been giving his beautiful store its annual touch-up. This time it is a new wood carpet floor and a new mosaic top on the counters, in addition to a new mirror or two. K.

Chicago,

BUSINESS MOVING ALONG NICELY.—ALL GOOD STOCK FINDING READY SALE.—SHIPPING BUSINESS BRISK.—STEADY CALL FOR BEAUTIES AND FUNERAL FLOWERS.—WITH THE NEW ROSES.—CLUB MEETING.—VARIOUS NOTES OF LOCAL DOINGS.—PERSONAL AND TRADE JOTTINGS.

There has been no complaint as to business this week, the principal difficulty being in filling orders. There has been a very steady shipping demand, and local trade is beginning to show increased activity. There has been a heavy call for high grade funeral flowers, the obsequies of W. S. Stratton, a western mining king, resulting in some of the heaviest orders of the season for shipment to Colorado Springs on Tuesday. Violets in quantity were ordered for this occasion, but it was not possible to supply them, nor could all the lily of the valley wanted be supplied. The production of valley for this market is now largely in the hands of two growers, H. N. Bruns and August Jurgens, and it makes them a very nice thing, although there are several smaller growers participating. The call for Beauties is a feature of the rose market. The supply shows some diminution and the increased demand makes a shortage; orders received late in the day frequently go unfilled. All through the market the Beauties are of exceptional quality, the weather having been exceedingly favorable. The accelerated demand and some-

what decreased receipts has produced a shortage of good tea roses. There is not so large a proportion of the stock coming short-stemmed, but there is a home for everything of quality now received in this market. Kaiserin is easily the best of the roses, some of the best stock being held for \$8 and \$10 per hundred. Carnot, Chatenay and other specialties go well. Receipts of carnations have not shortened to any great degree, but a wider market has resulted in cleaning up each day's receipts at an early hour. The qualities are generally very good and increased quantities could be handled to advantage. There are still thousands of asters in the market. Qualities are still fine and they are selling very satisfactorily. Chrysanthemums are not yet in evidence but can be supplied on advance orders. The season of early autumn weddings has made a good demand for valley and greens, asparagus and smilax moving nicely.

George Reinberg is beginning to cut from his plants of Balduin rose. The blooms take well as a novelty, but no matter how conclusively the Florists' Club of Philadelphia may have determined the correct name of the variety, the local retailers persist in labeling their vases of it "Helen Gould;" they think it a much better name for advertising purposes.

There was no club meeting Wednesday evening. Thirteen members presented themselves, which may account for the fact that through error no meeting room had been reserved and Handel Hall was full that night.

Weiland & Risch are getting very fine blooms on their new yellow rose, Souvenir de Pierre Notting. They think so highly of it that they will work up stock and largely increase their planting for next year.

E. E. Piester says that while trade is good for September, it is not up to last year at this date, which was exceptionally heavy at Kennicotts. Receipts were considerably heavier a year ago.

John Poehlmann is now able to come down to the store every day with the aid of a crutch and a cane. He says he has discovered that it takes much longer to mend a knee than to sprain it.

When Benthey & Company have finished their alterations they will have practically doubled their facilities without having enlarged their floor space in the least.

McKellar & Winterson are finding a daily market for about 250 bunches of euphorbia at a "quarter" a bunch. Retailers find it useful in many ways.

Peter Reinberg and a party of friends have been at Larchwood, Iowa, this week. There has been great excitement among the wild fowl.

Clare & Scharrath, dealers in Florida natural products, have removed their Indianapolis office to Chicago, at 633 Washington street.

Klehms were heavy losers by the wet season. Hundreds of thousands of valley pips perished and the loss of lilacs for forcing was great.

H. S. Harmon is again on duty at E. H. Hunt's after a week's illness and a trip to his old home at South Bend.

John Potts has gone to Jamestown, N. Y., to do the propagating for the Lakeview Rose Gardens.

J. A. Budlong has completed his range of carnation houses and has the place all in shape for winter.

P. J. Hauswirth and family reached home Wednesday evening from their trip east.

Adiantums are a feature of several retailers' show windows.

Visitors: E. C. Keck, Washington, Ia.; J. A. Evans, Richmond, Ind.

New York.

TRADE IMBUED WITH OPTIMISTIC VIEWS.—GOOD SEASON ASSUREDLY AT HAND.—HOME COMING OF THE TRADE TOURISTS.—VACATION SEASON AT AN END.—VARIOUS NOTES OF LOCAL INTEREST.

An optimistic feeling seems to pervade all departments of the trade this fall, which is more pronounced as the weeks pass. General business in the cut flower line has apparently started up earlier than for some years past. This may reasonably be attributed to the cool season, which has sent people back to the city with an ambition to "get a move on" generally. All the retail stores report a satisfactory activity and this condition has a cheering effect on the wholesale markets where, although rapidly increasing production has more than kept pace with the augmented demand and prevented any advance in values, the feeling is well-rooted that a season of prosperity is about to start in.

The home-comings from foreign shores and domestic summer resorts are at present quite an item in the daily record of metropolitan horticultural happenings. Last week saw the arrival of August Khotert, A. Gilchrist and wife, of Toronto; L. C. Bobbink, of Bobbink & Atkins and John Scott. George Stump arrived Tuesday on the Kronprinz Wilhelm, that vessel beating the best transatlantic record on this trip. Alfred Dimmock is due to arrive on the Lucania on Saturday and in his company is F. Sander, Jr., who is making his first visit to America. Mr. Krawell, of Speelman & Sons, arrived on the Rhinedam last Saturday. From the Catskills came C. H. Joosten, after a long summer vacation, and J. M. Keller, who has been enjoying the bracing mountain air at the Keller cottage in Elka Park. A. L. Thorne, who had gone last week with Mrs. Thorne, to Rangeley, Me., was obliged to turn back on account of illness.

James McHutchison arrived home from Europe on the Maltke, September 16. Mr. McHutchison and Daniel W. Wittpenn have formed a partnership, as McHutchison & Company, to represent European plant, bulb, seed and nursery houses in America and to act as custom house brokers and forwarders, with offices at 218 Fulton street, New York. Mr. McHutchison took on several good concerns while abroad. He will travel, as heretofore, Mr. Wittpenn devoting his energies to the office work. Both gentlemen have lately been with Aug. Khotert.

Ford Brothers are having extensive alterations made in their store on West Thirtieth street. The removal of partition walls and a stairway will give them a large additional floor area and when it is completed they will have one of the most desirable stores in the wholesale section.

The Babcock funeral here this week has made an active demand for choice material. Alex. McComell made a number of elaborate designs for this occasion, among which was a superb wreath for the New York Mutual Life Insurance Company, costing \$150.

A. Wadley made his first appearance in the city since the tunnel accident, on Thursday of last week and received the glad congratulations of many friends.

Moore, Hentz & Nash are having good success in handling the Queen of Edgely

rose in this market for the Floral Exchange Company, of Philadelphia.

A new store on the corner of Forty-ninth street and Sixth avenue bears the name of Hansen.

Visitors: Phil. Hauswirth, wife and Miss Kreitling, of Chicago; G. H. Hale, Seabright, N. J.

Boston.

AWARDS AT THE RECENT HORTICULTURAL EXHIBITION.—MANY NOVELTIES RECOGNIZED.—THE PRINCIPAL PRIZE WINNERS.—HIGH PRICES FOR MARKET STALLS.—NEW MARKETS CONTEMPLATED.

At the horticultural exhibition which closed on Sunday night last, the following special awards were made: To E. J. Mitton, for display of crotons, a silver gilt medal. To W. A. Manda, for Ligustrum ovalifolium aureum, a silver medal; for rose American Beauty × Jersey Beauty, honorable mention. To Col. Chas. Pfaff, for Dracena Lantuginosa, a certificate of merit. To H. A. Dreer, for Nymphaea Mrs. C. W. Ward, a certificate of merit. To A. Cowee, for Groff's hybrid gladioli, honorable mention. To M. H. Walsh for seedling perennial phlox, honorable mention. To J. E. Rothwell, for Cypripedium Fairy Queen, honorable mention. To J. S. Bailey for Alocasia Waveriana, honorable mention. The majority of the first prizes for palms, greenhouse plants, crotons, lycopods, and so forth, were won by J. S. Bailey. Mrs. J. L. Gardner, E. S. Converse, A. F. Estabrook and E. J. Mitton were also winners of valuable premiums in the various classes. All the classes for dahlias were filled and every prize in this section awarded. W. C. Winter, J. K. Alexander, Mrs. J. B. Lawrence, W. G. Winsor and W. H. Symonds were awarded the prizes for general display, in the order named. These were also prominent winners in the special dahlia classes, as were also H. F. Burt and W. P. Lothrop. Prizes or gratuities were awarded to all the exhibitors mentioned in our general report of last week. In addition to the displays there recorded mention should be made of a fine show of dipladenias made by George McWilliam and Lilium Wallacei superbum by Mrs. H. L. Higginson. Many classes heretofore well represented in these annual shows, such as conifers in pots and tubs, caladiums, specimen ferns, nepenthes, cycads and greenhouse flowering plants were missing this year.

At the annual auction sale of stalls at the Co-operative Market the highest prices on record were realized and there were a large number of disappointed stall-holders who talk of locating in new markets, of which two are now contemplated, one on Province court, the other on Milk street.

James M. Tuohy has opened a new store at 192 Washington street.

Newport, R. I.

TRADE CONTINUES VERY BRISK.—SOCIAL SEASON NOT YET WANING.—GOOD DISPLAYS.—PERSONAL AND TRADE NOTES.

The combination of continuous well social functions and a horse show resulted in lively trade, cut flowers having been in large demand. Wadley & Smythe's show window in the Casino was artistically decorated with bright and well blended "horsey" colors, a large floral horseshoe studded with Beauties, forming a striking center.

W. G. Postings is a new man among us, but old in experience. He is gardener for Winthrop Chanler.

J. C. McLeish, florist and street commissioner, while watching a boat race on Labor day met with injury by a fall from a barrel upon which he was standing.

Hodgson's display of rare aquatics, giant palms, large boxwoods and so forth, proves one of the handsomest sights on Bellevue avenue.

Gardenias seemed to be the favorite outing flower with the ladies during the season.

Harry Westley has resigned as gardener for I. T. Burden, after five years' efficient service. C. J. M.

St. Louis.

CLUB HOLDS GOOD MEETING.—AN ENTERTAINMENT FUND FORMED.—NEW PRESIDENT DINES THE CLUB.—MARKET SHOWS IMPROVEMENT.—VARIOUS NOTES.

The last meeting of the St. Louis Florists' Club, September 11, was well attended. The picnic committee reported a balance above expenses. The sum was set aside as the nucleus for an entertainment fund. F. B. Call, of Clayton, was elected to membership. President Meinhardt asked the three ex-presidents, Fillmore, Halstead and Ammann, to escort President-elect J. W. Dunford to the chair, which he then vacated. Mr. Dunford was presented with the gavel by Dr. Halstead and made a short speech. Otto Koening asked the club for its endorsement as superintendent of floriculture at the World's Fair, under F. W. Taylor, which was given. Thomas Carrol, the first man to start carnation growing as a specialty in this section, was present. He has lost his sight. George Windler gave a very interesting talk on his trip to Asheville, and Wm. Trilow, of Vaughan's, Chicago, talked entertainingly on the things seen on his travels. Just before the meeting adjourned Mr. Dunford extended an invitation to all present to come down to the hotel with him to have a crust of bread and a glass of water, which proved to be a bountiful supper.

The wholesale market is much stronger this week and stock has improved slightly in quality. Liberty and Meteor lead in roses. American Beauties are fairly plentiful. Carnations are selling well. Sunday saw a shortage of pink. The Transit Street Railway furnished each of its 3,000 motormen and conductors with a pink carnation on Saturday morning and this was a good advertisement for the sale on Sunday morning, which was immense. A few early Fitzwygram chrysanthemums were on the market this week. Lily of the valley is very fine but slow sale at present.

The St. Louis County Fair last week was very successful. The premium winners in floral classes were Mrs. Ernest Knochs, Mrs. John Blank and M. Eisenhardt.

G. A. Whitman was married to Miss Frances M. Klein about a month ago, but has kept it quiet until this week. He is in the employ of H. G. Berning. R. J. M.

Columbus, O.

FROST FAILS TO TOUCH THE BEDDING STOCK.—GOOD ROSES.—COMPLAINT AT PRICE OF ROMANS.—MUCH FUNERAL WORK.

For two nights in succession we have been visited by a heavy frost but owing to favorable atmospheric conditions there was no harm done to bedding plants, and if the general rule is carried out we may now look for favorable weather for the next two weeks. There

are some beautiful beds of cannas edged with salvia now at their best in this locality.

C. A. Roth is receiving a fine cut of roses, which he claims is just a small portion of what he expects to handle later in the season. Mr. Roth, like many others, complains of the short stems on the carnations.

Many are the complaints about the high price of Romans this season and not a few will increase their order for Paper Whites and decrease that for Romans another season if the high price still prevails.

Sherman Stephens was very busy with funeral work last week. CARL.

Omaha.

STATE FAIR AT LINCOLN A GREATER SUCCESS THAN EVER.—GOOD FLORAL DISPLAYS.—SOCIETY RE-ELECTS OFFICERS.—TRADE GOOD.—NOTES.

September 3 the State Horticultural Society held its annual fair at Lincoln. The florists were well represented. Frey & Frey, of Lincoln, made a remarkable display of greenhouse plants and took first premium on same. B. Floth and L. Henderson, of Omaha, made very creditable displays of plants, as did C. Greene, of Fremont, and J. W. Hesser, of Plattsmouth. The cut flowers and floral designs this year were better than ever and honors evenly divided. Those displaying cut flowers were Chapin Brothers and Frey & Frey, of Lincoln, C. Greene, of Fremont, and Hess & Swoboda and L. Henderson, of Omaha.

September 11 the Nebraska Florists' Society held its annual election in the city hall at Omaha. J. J. Hess was re-elected president, S. R. Faulkner for vice-president, L. Henderson secretary and Geo. Swoboda treasurer. J. Bates, E. Ellsworth and G. Swenson were elected trustees.

Business has been good and stock in normal supply. McKinley memorial day rushed the sale of carnations, which brought Christmas prices, selling Sunday morning for 10 cents each, and the demand was greater than the supply.

Lloyd Vaughan, of Hunt's, Chicago, passed through the city the other day on his way to the Pacific coast.

It is with regret that I have to announce the death of Mrs. H. Petersen, after an illness of several months.

Mr. and Mrs. Arnold and daughter have returned from their vacation trip. L. Henderson has remodeled his store and has more space than formerly. GRIPPE.

Lowell, Mass.

VERY LITTLE DOING.—ASTERS IN GREAT OVER-SUPPLY.—NOTES OF PERSONAL AND OTHER HAPPENINGS.

Business is not very brisk but now and then comes a funeral order to break the monotony. Semple's asters are now in all their glory, and are being shipped to town in tremendous supply. With so many people raising them the price realized by the grower in some cases hardly pays for the picking. Think of buying choice Semples for \$4 per thousand and Comets for \$2.50! No wonder some of the growers are worried with the coal problem staring them in the face, not knowing where they are going to get their winter's supply. Labor day, which is a great holiday in this city, did not create as much business as was expected. The supply of carnations is steadily increasing but receipts are soon snapped up at 35 cents per dozen.

The floral exhibits at the Middlesex fair were not all that might have been asked. Burt, Marshall, McManamon and Haynes made displays but the showing would have been larger with better premiums. A feature was a parade of vehicles decorated with products of the soil. Burt and Griffiths had their delivery wagons in line.

Geo. Foster, at Wamesit, has just finished a 100-foot house for violets. With this addition to his facilities he ought to give good account of himself this winter.

George W. Patten has returned from Salt Lake City, where he went to attend the Elk's convention. Afterward he went on to San Francisco.

It seems that the Boston fern is to be more popular than ever, if one can judge from the large number of people looking for them at present.

John J. McManamon is at home after spending several weeks in the White Mountains.

C. L. Marshall is now in his new store on Central street.

A. C. Tingley is laid up with rheumatic fever. A. M.

New Bedford, Mass.

SEASON GOOD BUT TRADE DULL IN LATE SUMMER.—STOCK IN FINE SHAPE.—CARNATIONS A LEADING CROP.—VARIOUS NOTES OF DOINGS OF THE GROWERS.

The florists here, growers and retailers, have had a very good business the past year, although it is quiet enough now. There are no new houses being built this season. Material is too high. But the majority of the florists are improving their places. R. H. Woodhouse has torn down his palm house and rebuilt it, and has also built a fine new office. He keeps a fine stock of decorative plants and does a good deal of decorating for swell weddings. He had a job that amounted to \$100 the past week.

The season has been very favorable for growing stock. The principal crop here is carnations, and they have made a very good growth and are quite free from stem rot. We grow for white mostly the McGowan, although the Queen Louise and Flora Hill are also favorites. H. A. Jahn has a seedling white that is immense. He is growing a house of it and it will be heard from later. Daybreak is giving out and Morning Glory is being tried in its place. Joost is a favorite and the Lawson is being largely grown.

S. S. Peckham, who lives three miles out in the country, is boring a well for water. He is down 150 feet without finding anything to speak of and the drill is stuck fast, so he cannot get it out. He has commenced another hole and if he does not find water, is in hopes to find fuel oil or coal. That coal question is causing us a good deal of anxiety just now.

At the north end H. V. Sowle has about 8,000 feet of glass. His trade is mostly funeral work and he raises his own flowers.

W. L. G. Brown has torn down two old houses and is making them over into one.

Richard Nofitz is making a specialty of bulb forcing this winter. A. B. H.

LEWISTON, ME.—The display of plants and flowers at the State Fair last week was the best on record. Among the finest exhibits were those of L. C. Goddard, of Woodfords, Mrs. Lucy A. Chandler, of Freeport, and Ernest Saunders, of Lewiston.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
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ing only to the back pages.

The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines only.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

MRS. LAWSON is the shortest item in
the list of field-grown carnation plants.

THE cool, wet weather appears to have
been a potent factor in the production of
excellent dahlias and sweet peas in many
sections this season.

FOR those who failed to make early
contracts, the price of coal promises to
take a considerable part of the profits of
a very prosperous season.

THE business world sees in the great
grain crops of the west promise of an
unprecedentedly profitable season. In
many lines manufacturers claim that
the present affords no question of a
market, that the problem is entirely one
of production.

A GENERAL plan for an organization to
be known as the Plant and Animal
Breeders' Association has been formu-
lated by a committee of the Association
of American Agricultural Colleges and
Experiment Stations. The committee
consists of W. M. Hays, Thomas F. Hunt,
H. J. Webber, L. H. Bailey and C. F.
Curtis. The original plan was for a con-
ference of those interested in the problems
of heredity, but the interest seems to
warrant the formation of a permanent
association.

Greenhouse Building.

Winchester, Mass.—J. Newman & Sons,
one house.

Elgin, Ill.—Geo. Souster, house 12x134.
Springfield, O.—Springfield Floral Com-
pany, one house.

Lansing, Mich.—J. A. Bissinger, house
10x110.

Springfield, Mass.—L. D. Robinson,
house 20x125.

Medway, Mass.—H. F. Cooper, one
house.

Do Business Every Day.

Every day may be and should be a day
good to the business man who adver-
tises. There are degrees in the yield of
the days as they come and pass, but each
and every one of them may be made
profitable. This holds with peculiar
force as to advertising. People buy
every selling day in the year. There are
seasons when they buy more than at
other seasons, but buying is going on all
of the time. The wise merchant seeks to
get his full share of the trade, whether it
be little or much. He should know and
recall the old maxim, "Out of sight, out
of mind." He must persist in advertising
all of the time if he would secure the share
he properly covets.—*Printers' Ink.*

Sell the Surpluses.

ED. AM. FLORIST:—Please do not again
print our 1-inch advertisement for carnation
plants. One insertion sold them all,
in fact brought orders for several times
our surplus. A. LAUB & SONS.
Hugbunville, N. Y.

Latest Facts About Roses.

ED. AM. FLORIST:—I noted when too
late that my stenographer in copying my
paper, "Latest Facts About Roses," read
before the Canadian Horticultural Associa-
tion, made two important omissions,
which I would like you to correct. In
speaking about Manetti stocks, the sen-
tence "When the buds begin to swell,"
etc., should read: "When they are started
at the root and the buds begin to swell,
they are ready for use."

Again, about the care of the frame, the
sentence "Keeping closed for about seven
or eight days, then giving one inch or two
of air," etc., should read: "Keeping
closed for about seven or eight days, giv-
ing it no air, unless too much moisture
should gather, when you should give not
more than one inch of an opening, just
enough to cause a slight circulation of
air to carry off part of the moisture,
closing again in the course of twenty
minutes or half an hour. After the first
seven or eight days give one inch or two
of air for two or three days, then keep
increasing it for the next twelve or fifteen
days." EDWARD DALE.

To Make Ficuses Bushy.

ED. AM. FLORIST:—Can you give us
information through the columns of your
paper on the method employed by suc-
cessful growers in branching small rubber
trees to make them bushy? It is said
some certain method of cutting, topping,
wounding, or a method without wound-
ing at all, will bring out shoots at fairly
definite points. We have a system
intensely unscientific and the branches
respond or fail to respond accordingly.
Kindly set out for us a generally accepted
method and oblige. C. B.

Give them the highest possible cultiva-
tion and nature will do the rest by exert-
ing her energies at every leaf axil, or bud,
of the main stem. Summer is the only
time of the year in which a rubber can be
grown to make branches without top-
ping. Light, heat and moisture, in the
proper proportions, are the most essential
elements for the successful growth of all
plants, and the rubber requires all of
these three in plenty. As nature in sum-
mer gives a liberal supply of the former
two, light and heat, the latter can be
easily furnished mechanically. The rub-
ber is a gross feeder and delights in a
rich soil. There is, perhaps, more than
one treatment to make natural branched
rubbers, but the following is the one most
in use. About the middle of May in our
locality (Philadelphia) make a hotbed
about twelve to fifteen inches deep out-
side in open ground, with horse manure.
One-fourth to one-third brewers' spent
hops mixed with the manure is good, but
not absolutely necessary. On top of this
place from four to six inches of good soil,
the same as one would use for chrysan-
themums. In this hotbed plant the rub-
bers fifteen inches apart. Shade them for
a week or two during the middle of the
day, when the sun shines; then expose
them to all the sunshine that a kind
Providence will give them and give plenty
of water when nature refuses her supply
in her natural way. If these directions

are carried out by the middle of Septem-
ber you will have a nice lot of sturdy
plants with few to many branches.
About this time lift and pot them and
place them in a warm house, slightly
shaded, water well and sprinkle the
foliage twice a day for a week or two.

WM. K. HARRIS.

A French Gold Medal Offered.

The French Chrysanthemum Society
offers as a premium to the Chrysanthe-
mum Society of America, to be competed
for at the November exhibition of the
Horticultural Society of Chicago, a gold
medal, value 100 francs, and a diploma.
The competition to be for not less than
thirty-six blooms, in six varieties, of
French origin. Among these the follow-
ing are all eligible:

Colette	Mme. G. Debrie
Coppelia	Mlle. Marie Liger
Calvat's Sun	Mlle. Lucie Faure
Calvat's 99	Marie Calvat
Fee du Champaur	M. Verlot
H. J. Jones (Santel 1892)	M. Chonon D. Leche
Le Grand Dragon	M. Philippe Roger
L'Enfant des Deux	M. A. Ray Jouvin
Mondes	Nouvelle Vie
Locadie Gentils	Princess. Bassaraba de
Le Fakir	Brancova
Mme. Ferlat	Ville de Bordeaux
Mme. Herreweghe	Vivand-Morel
Mme. R. Cadbury	Princess. Alice de Monaco
Mme. Carnot	Soleil d'Octobre
Mme. Von Andre	Merveille du Louvre
Mme. Deis	Mme. Emile Brandt

Other varieties of later introduction
can be used, but all blooms must be from
varieties of French origin. This being a
special prize and the first ever offered by
the French society in America, it is hoped
that the honor of winning this valuable
trophy will bring out a strong competi-
tion. The following is a synopsis of the
letter received from the general secretary
of the French society, bearing on the
above subject:

LYONS, FRANCE, AUGUST 8, 1902.

TO THE TREASURER OF THE CHRYSANTHEMUM
SOCIETY OF AMERICA, SUMMIT, NEW JERSEY:—It
is with pleasure that I have submitted to the
French society of chrysanthemum growers the
request you sent to it. Although our society is
involved in rather heavy expenses by the publica-
tion of a catalogue of the colors and plates of the
diseases of chrysanthemums, the administrative
committee has however, maintained in testifying
to your society a pledge of the friendly relations
which it holds with ours. The committee has
decided to offer you a gold medal (value 100
francs) with the emblem of our society.

I shall give the necessary orders to the engraver
so that the medal may be stamped and I shall see
that you receive it as soon as it is ready. Mean-
while I pray you accept my sincere greetings.

Yours etc., A. M. PH. RIVOIRE.

Le Secrétaire General.

JOHN N. MAY.

Toronto.

BUSINESS GOOD AND ALL SALABLE STOCK
QUICKLY TAKEN OUT OF THE MARKET.—
ROSES NOT YET PLENTIFUL.—VARIOUS
NOTES.

Toronto is at present enjoying unusual
activity in the retail business. Roses are
still very scarce, the stock coming mostly
from young plants, and the stems are
short. Cool nights have enabled the
growers to put on steam and mildew is
fast disappearing. Beauties have picked
up considerably and are better colored
and longer stemmed, and with favorable
weather will soon be plentiful. Good
Kaiserins from Dunlop's, Bridesmaids
and Morgans from the Toronto Floral
Company and Brides from the Dale
Estate are quickly bought up. Perles
are much in demand, as yellow seems a
favorite color this season, but as yet
there are few good ones to be had. Car-
nations are also scarce, mostly being cut
from outdoor stock, but those planted in

look very promising, and another week will see many more flowers. Some very good dahlias from our specialists, Tuttle Brothers, have done much to relieve the shortage of the cut flower market. Asters are still in abundance and some good sweet peas are still in the market. Lilies of all kinds have been around all season and have helped out with funeral work. Violets will be with us soon, for a few fairly good flowers have been picked.

The cut flower show at the Toronto fair called forth considerable competition in the way of annuals, perennials and hardy shrubs, but in the class of roses, carnations and made-up work competition was not as large as in former years. For best funeral design J. Simmons was first, Jay & Son second, F. C. W. Brown third. For best funeral wreath F. C. W. Brown took first. For best presentation basket, Jay & Son first. For centerpiece and bridal bouquet, J. Simmons first. On roses Walter Muston, of the Toronto Floral Company, took the firsts. In the other classes Wm. Rennie, Manton Bros., Geo. White, Chas. Scott, Robt. Brooks, Grainger Brothers and Roderick Cameron, of Queen Victoria Park, Niagara Falls, each took prizes.

J. H. Dunlop recently took his employes to his summer cottage at Rosebank for a day's outing. The usual outdoor sports were indulged in, prizes being offered for the different events.

Geo. Hollis seems to be having more than his share of hard luck. His horse was found beside the railroad track the other day, having been killed by a train.

E. Collins, foreman at the Horticultural Gardens, is on a trip to the old country.

Visitors: Robt. Harper, Hamilton; Jas. White, Montreal; E. Maxson, Lindsay; J. Hay, Brockville. H. G. D.

San Francisco.

MARKET SHOWS IMPROVED PRICES FOR GOOD STOCK.—TOO MUCH RUBBISH.—NOTES OF THE GROWERS AND OTHERS.

Pick & Faber are building a house 25x180 for carnations, with an addition for propagating purposes. Their carnations are all benched, except in the new house, and are looking very well.

A stiffening of prices for good carnations and roses, an over-production of cheap stock and a fair business, with plenty of warm weather, is the record of the past week.

T. Tuttle, of the Oregon Nursery Company, Salem, has been visiting here and is well satisfied with the outlook for next winter's business.

Wm. Eldred has been advanced to the superintendency of the Crocker estate.

T. Berry, who leased Pottet's Nursery last winter, has given up the venture.

A. Carbone, has resigned his position with D. O. Mills. GOLDEN GATE.

Providence, R. I.

FLORISTS' CLUB WANTS MEMBERS.—TRADE NOT YET ACTIVE.—VARIOUS NOTES.

The Florists' Club is not satisfied with present prospects and is engaging an ambitious committee to go into the high-ways and byways and bring in the good men. One of the members is trying to form a bowling team.

Maenair had the arrangements for the unveiling of the Samuels monument last Friday. The entire granite was covered with streamers of green galax and white and pink flowers.

Although things have improved since the first of the month, we must wait till

frost before any active business comes. Design work still gives encouragement.

T. J. Johnston's building is being increased three stories in height, which will interfere with his window display for some time.

Messrs. Johnston and Rennie are in Baltimore for a few days. M. M.

Washington.

NOTES OF VARYING INTEREST OF DOINGS AT THE NATIONAL CAPITAL.

F. H. Kramer has finished his new rose house, 30x206. He has planted about 10,000 Beauty, Meteor, Ivory, Bride-maid, Bride and Golden Gate. His carnations in the field are looking well and he is getting five houses in shape for planting.

We are having fine weather. The nights are cool but the sun is quite warm during the day. Bedding in general about Washington is looking very fine, especially the canna and sub-tropical beds.

N. Studer has some of his carnations planted; he will house about 8,000 plants in all. He also has a fine stock of decorative plants. P. G.

Coming Exhibitions.

[Secretaries are requested to supply any omissions from this list.]

BOSTON, MASS., November 6-9, 1902.—Chrysanthemum show Massachusetts Horticultural Society. W. P. Rich, Sec'y, Horticultural Hall, 360 Massachusetts avenue.

CHICAGO, ILL., November 11-15, 1902.—First annual exhibition Chrysanthemum Society of America and twelfth annual exhibition Horticultural Society of Chicago, to be held jointly. E. A. Kaust, Assistant Secretary, 5700 Cottage Grove avenue, Chicago.

KANSAS CITY, MO., November 3-8, 1902.—Flower show, Convention Hall Directors, Kansas City, Mo.

LENOX, MASS., October 23, 1902.—Fall exhibition Lenox Horticultural Society, F. Herremans, Sec'y.

LOUISVILLE, KY., November 12-15, 1902.—Chrysanthemum exhibition Business Women's League, H. Nauz, superintendent, Louisville, Ky.

MADISON, N. J., November 6-7, 1902.—Seventh annual flower show Morris County Gardeners' and Florists' Society, C. H. Atkins, Sec'y, Madison, N. J.

MARSHALL, TEX., November 13-14, 1902.—Annual flower show East Texas Flower Association, W. L. Martin, Sec'y, Marshall, Tex.

NEW HAVEN, CONN., November 11-13, 1902.—Annual flower show New Haven Horticultural Society, Thomas Pettit, Sec'y, 316 Orange street.

NEW YORK, N. Y., October 30-November 6, 1902.—Annual exhibition New York Florists' Club, John Young, Sec'y, 51 W. Twenty-eighth street.

PHILADELPHIA, PA., November 11-15, 1902.—Annual autumn exhibition Pennsylvania Horticultural Society, David Rust, Sec'y, Horticultural Hall, Broad street below Locust, Philadelphia.

PROVIDENCE, R. I., November 13-14, 1902.—Chrysanthemum exhibition Rhode Island Horticultural Society, C. W. Smith, Secretary, 27-29 Exchange street Providence.

ST. PAUL, MINN., November 3-5, 1902.—Chrysanthemum and orchid exhibition Ladies Auxiliary of the Northwestern Manufacturers' Association, Mrs. A. P. Moss, Sec'y.

TARRYTOWN, N. Y., November 11-13, 1902.—Fourth annual exhibition Tarrytown Horticultural Society, Edw. W. Neubrand, Sec'y, Tarrytown, N. Y.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED Experienced designer and decorator. High class salesman. Sober and industrious. JULIUS A. SCHNAPP, 2220 Indiana Ave. Chicago.

SITUATION WANTED In floral store, designer and decorator 20 years experience, 33 years of age. State salary. T. C. ROGERS, Whitehall, Mich.

WANTED To know the address of Prosper Henry florist. E. R., care Am. Florist.

WANTED Three or four young men as helpers in our rose and smilax houses. Address, BASSETT & WASHBURN, Hinsdale, Ill.

WANTED—Grower of roses, carnations, mums and general greenhouse plants. References required. S. H. DOLE & SONS, Beatrice, Neb.

WANTED—A man, must be sober and reliable, to grow roses, carnations and mums and cut flowers in general. Address, FLOREN, care American Florist.

WANTED—By Oct. 1st, good rose man, especially on Brides and Mards. Steady position and good wages to right man. F. HOLZKÖLE, Highland Park, Suburb of Detroit, Mich.

WANTED—One chrysanthemum and one carnation grower, \$30 per week and room. Permanent positions. Send references with application. J. LOUIS LOOSE, Washington, D. C.

WANTED—Man with practical experience in growing cut flowers and bedding plants. State age, experience and wages wanted. References required. Address, B., American Florist.

WANTED AT ONCE—Experienced man for general greenhouse work. Must be well recommended. Steady position and good wages to the right party. Address, J. A. BISSINGER, Lansing, Mich.

WANTED—Propagator of roses, carnations, etc., must be thoroughly first-class; no other need apply. Also a few growers of roses and carnations for sections. Good wages and steady work. LAKEVIEW ROSE GARDENS, Jamestown, N. Y.

WANTED—An all-around gardener at a suburban place near Chicago; small greenhouse. Rent and fuel free; young married man preferred. State age and number in family if married and wages expected. Address, C. W., care Am. Florist.

WANTED—A working foreman to take charge of 22,000 square feet of glass, where first-class roses and carnations are grown, also one house of poinsettia; also one assistant. State age and wages expected, with board and washing. Apply to JOHN L. WYLAND, De Haven, Pa.

WANTED—On a fine private place in Omaha, Neb., a first-class florist and gardener for second man. Wages \$300.00 and board. To a man who proves satisfactory in every way after four months will pay \$45.00 per month and board and steady employment. Address, GEO. A. JOSLYN, Omaha, Neb.

FOR SALE—4-inch hot water pipe in good condition. Write for price. Address, W. H. GULLETT & SONS, Lincoln, Ill.

FOR SALE—Well established greenhouse business, 12,000 feet of glass; steam heat, 100 miles from Chicago. INDIANA, American Florist.

FOR SALE—Horizontal tubular boiler 48x15 with plug hat dome and with 39 3/4-in. flues, very suitable for heating hot houses. Apply to WISCONSIN BOX CO., Wausau, Wis.

FOR SALE—An old established greenhouse business; entire plant rebuilt; steam heat. With all the ground or part; also with or without residence. Situated in Cleveland, O. A bargain. Address, O. K., care American Florist.

Wanted Young man experienced in pot plants and bedding; also sober night fireman; steam boilers, must have experience with soft coal. Address, with ref., S. J. REUTER, Westerly, R. I.

Situation Wanted

A young Dutch gardener possessing a diploma, with solid practical education having worked in England, Germany and Holland, desires a responsible position in a large American nursery or florists' establishment. For full particulars and references address (letters fully prepaid) P 130, care Erven B. Van der Kamp, general advertising contractor, Groningen, Holland.

GLASS FOR SALE!

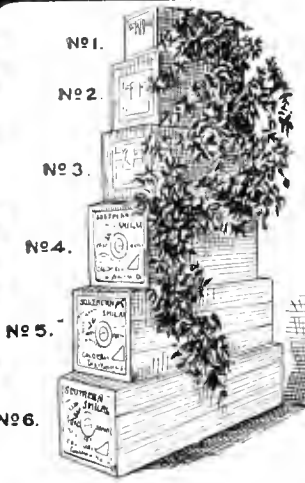
We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address,

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

For Rent or Sale Greenhouse

(about 7,000 feet of glass), dwelling and stable, Evanston, Ill., two blocks from C & N. W. station. Good established trade direct from green house. Rent reasonable. Address,

1127 CHURCH ST., EVANSTON, ILL.



YOU must be aware that anything you want in the Cut Flowerline can be had from

Deamud

While we are now just between Hay and Grass, still our

Beauties, Carnations, Valley and Tea Roses

Are as fine as can be had.

Chrysanthemums will be in very shortly.

J. B. DEAMUD,
51-53 Wabash Ave., Chicago.

Caldwell's Kwally Kounts Brand
Wild Smilax now on hand.

The F. R. WILLIAMS CO.

WHOLESALE FLORISTS.

Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.

Telephone Connections. **CLEVELAND, OHIO.**

McKELLAR & WINTERSON CO.

Supply Everything Used by Florists, Nurserymen, Gardeners, Seedsmen..... Cemeteries, Parks, Etc.

HEADQUARTERS on CUT FLOWERS
45-47-49 Wabash Ave.

Telephone Main 1129. **...CHICAGO**

Galax AND Leucothoes.

Selected, Bright and Brilliant. Wholesale Trade Solicited.....

J. L. BANNER & CO., Montezuma, N. C.

Wanted

We wish to make arrangements with a few First-Class Growers for regular consignments of Cut Flowers, especially Roses and Carnations. Can promise good returns.

TEXAS SEED & FLORAL CO.
Wholesale Commission Florists, Dallas, Tex.

RICE BROTHERS

WHOLESALE FLORISTS and FLORAL SUPPLIES.

Receivers and Shippers of Fresh Cut Flowers. Special attention to shipping orders. A complete line of Florists' needs. Send for price list. Prompt returns on all consignments.

128 N. Sixth St. **MINNEAPOLIS, MINN.**

Holton & Hunkel Co.

Wholesale Florists.

457 Milwaukee St., **MILWAUKEE, WIS.**

Wholesale Flower Markets

MILWAUKEE, Sept. 18.

Roses, Beauty, long, per doz.	2.00
" " med. " " " " " "	1.00@1.50
" " short " " " " " "	.50@ .75
" Liberty.....	6.00@ 8.00
" Bride, Bridesmaid.....	4.00@ 5.00
" Meteor.....	4.00@ 5.00
" Golden Gate.....	4.00@ 5.00
" Perle.....	2.00@ 4.00
Carnations.....	1.00@ 2.00
Asters.....	.50@ 1.00
Sweet peas.....	.15
Adiantum.....	.75@ 1.00
Smilax.....	12.00@15.00
Asparagus.....	65.00
Common ferns.....	.25

PITTSBURG, Sept. 18.

Roses, Beauty, specials.....	21.00@25.00
" " extras.....	15.00@18.00
" " No. 1.....	8.00@10.00
" " No. 2.....	3.00@ 5.00
" Kaiserin.....	2.00@ 6.00
" Bride, Bridesmaid.....	1.00@ 4.00
" Meteor.....	1.00@ 4.00
" Liberty.....	2.00@ 6.00
Carnations.....	.50@ 1.50
Asters.....	.25@ 1.50
Lily of the valley.....	2.00@ 4.00
Gladioli.....	1.00 @ 3.00
Smilax.....	8.00@12.00
Adiantum.....	.75@ 1.00
Asparagus.....	35.00@40.00

CINCINNATI, Sept. 18.

Roses, Beauty.....	5.00@25.00
" Bride.....	2.00@ 4.00
" Bridesmaid.....	2.00@ 4.00
" Meteor.....	2.0 @ 4.00
" LaFrance.....	3.00@ 4.00
" Kaiserin.....	3.00
Carnations.....	.75@ 1.00
Asters.....	1.50@ 3.00
Lily of the valley.....	4.00
Asparagus.....	50.00
Smilax.....	12.00@15.00
Adiantum.....	1.00
Common ferns.....	.15

St. Louis, Sept. 18.

Roses, Beauty, medium stem.....	10.00@18.00
" Beauty, short stem.....	3.00@ 8.00
" Bride, Bridesmaid.....	2.00@ 4.00
" Golden Gate, Carnot.....	2.00@ 5.00
" Meteor.....	2.0 @ 4.00
Carnations.....	1.00@ 2.00
Asters.....	.75@ 2.00
Tuberose.....	5.00
Lily of the valley.....	4.00
Smilax.....	12.50@15.00
Asparagus Sprengeri.....	1.50
" Plumosus.....	.75@ 1.00

E. H. Hunt,

WHOLESALE....

Cut Flowers

THE "OLD RELIABLE,"

76 Wabash Ave., **CHICAGO.**

Poehlmann Bros. Co.

Wholesale Growers of
and Dealers in **Cut Flowers**

All telegraph and telephone orders given prompt attention. **35-37**
GREENHOUSES: Morton Grove, Ill. Randolph Street, **CHICAGO, ILL.**

Bassett & Washburn

76 & 78 Wabash Ave., **CHICAGO.**

Wholesale Dealers and Growers of **Cut Flowers**

GREENHOUSES: **HINSDALE, ILL.**

The Cincinnati Cut Flower Co.,

437-439 Main St. **WHOLESALE FLORISTS.**
CINCINNATI, O.

Consignments Solicited.
Social Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.

Michigan Cut Flower Exchange.

Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around.
BRONZE GALAX, \$1.00 per thousand.

26 Miami Ave., **DETROIT, MICH.**

H.G. BERNING

Wholesale Florist

1322 Pine St., **ST. LOUIS, MO.**

Frank M. Ellis,

WHOLESALE FLORIST,

1316 Pine Street, **ST. LOUIS, MO.**

CONSIGNMENTS SOLICITED.

C. A. KUEHN,

Wholesale Florist,

1122 PINE STREET,
ST. LOUIS, MO.

A complete line of Wire Designs.

Pittsburg Cut Flower Co. Ltd

WHOLESALE FLORISTS.

Pittsburg, Pa.

Please mention the American Florist when writing.

Beauties are unusually good for so early in the season and exceptional value at current rates. We have a good supply.

Tea Roses Crops are increasing in quantity and improving in quality. Brides, Maids and Kaisersins are best.

Carnations Quality is very fine for so early but receipts are not increasing so fast as is the demand.

Greens Smilax, Asparagus Plumosus and Sprengeri are items which are in steady, all-season demand and we have arrangements which insure a practically inexhaustible supply. Let us have your orders.

Wild Smilax We are now ready to supply Wild Smilax for all requirements but as it is yet early to carry it in stock we must have three days' notice. Write or wire.

SEND FOR OUR PRICE LIST, ISSUED WEEKLY.

E. C. AMLING,

32-36 Randolph St. L. Dis. Phones 1999 and 1977 Central. Chicago, Ill.

The Largest, Best Equipped and Most Centrally Located Wholesale Cut Flower House in Chicago.

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 WHOLESALE GROWERS AND SHIPPERS OF
CUT FLOWERS
 59 WABASH AVE. CHICAGO

KENNICOTT BROS. CO.

Wholesale Cut Flowers and Florists' Supplies.

42-44 Randolph St., CHICAGO.

WIETOR BROS.
 Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Avenue, CHICAGO.

PETER REINBERG,
 Grower and Wholesaler of Cut Flowers.

800,000 FEET OF GLASS. Headquarters for American Beauty.
 51 Wabash Ave., CHICAGO, ILL.

FRANK GARLAND,
 Wholesale Grower of **Cut Flowers**

SPECIAL ATTENTION GIVEN TO HARDY CUT **FERNS**
 55-57 WABASH AVENUE, CHICAGO.
 Telephone Central 3284

It is good business policyto mention the

American Florist

When you write to an advertiser.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty..... WHOLESALE GROWER OF **CUT FLOWERS**

Wholesale Flower Markets

CHICAGO, Sept. 19.		
Roses, Beauty, 36-inch stems		3.00
" " 30 " "		2.50
" " 24 " "		2.00
" " 20 " "		1.50
" " 15 " "		1.00
" " 12 " "		.75
" " 6 to 8 " "	per 100	4.00@ 5.00
" Bride, Bridesmaid.....	2.00@	5.00
" Meteor.....	2.00@	5.00
" Perle.....	2.00@	4.00
" Golden Gate.....	2.00@	4.00
Carrations.....	1.50@	2.00
Asters.....	.50@	2.00
Gladioli.....	.75@	2.00
Lily of the valley.....		4.00
Auratum, per doz., 1.00@1.25		
Tuberose.....	3.00@	6.00
Asparagus, per string, .50		
Adiantum.....	.75@	1.00
Common ferns, per 1000, 1.00		.15
Galax leaves, per 1000, 1.25		.15
Smilax, per dozen, 1.25@1.50		

Bentley & Co.

F. F. BENTLEY, Manager,
 Wholesale Commission Florists
 31-35 Randolph St., CHICAGO.

Consignments solicited.....

LILY OF THE VALLEY.

Extra fine cut Valley every day in the year. Fine cold storage pips. \$1.50 per 100; \$13.00 per 1000.

H. N. BRUNS,
 1409-1411 W. Madison St., CHICAGO.

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO.
 Send for weekly price list and special quotations on 1000 lots.

JOHN MUNO,
 Wholesale Grower and Shipper of **Cut Flowers**

Room 221, 51 Wabash Ave., CHICAGO.
 TELEPHONE CENTRAL 3598. All telegraph and telephone orders given prompt attention.
 Please mention the American Florist when writing.

GEO. REINBERG,
 Wholesale Grower of **Cut Flowers**

Chocoe American Beauties.
 We will take care of your orders at reasonable prices. Prompt attention.
 51 Wabash Ave., CHICAGO, ILL.
 Please mention the American Florist when writing.

Chicago Carnation Co.
 Joliet, Illinois.

CUT DAHLIAS

Commencing September 1st will be open from 7:30 A. M. to 6:00 P. M., Saturdays included.

SAMUEL S. PENNOCK, Wholesale Florist,

1612-18 LUDLOW ST., PHILADELPHIA, PA.

GEO. A. SUTHERLAND,

34 Hawley St., BOSTON.
Telephone 1270 Main.

BEST BOSTON FLOWERS. All Supplies.
An entire floor Devoted to Stock and Manu-
facturing. Distributing Agent for United States
for the wonderful



LETTER, unequalled for design
work. Script, any color, 3/4c a
letter. Block letters, 1 1/2c each.
The most elaborate design work
to order in a few minutes.

GENERAL AGENTS:
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REED & KELLER, New York City.

A FULL STOCK OF SEASONABLE FLOWERS.

CITY HALL CUT FLOWER MARKET

WELCH BROS., PROPS.

9 CHAPMAN PLACE, Boston, Mass.
15 PROVINCE STREET.

THE NEW YORK CUT FLOWER CO.

55 and 57 West 26th St.,
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Daily Reports. Weekly Payments.
TELEPHONES: 2239 Madison Sq. J. A. MILLANG,
203 1/2 Madison Sq. MANAGER.

GEORGE SALTFOORD,

Wholesale Commission Florist,

46 West 29th Street, NEW YORK.

Fair dealing and prompt returns guaranteed.
Correspondence solicited.

ROVATZOS & MOLTZ

Buy and Sell... FLOWERS on Close Margin.

Headquarters, 56 West 26th Street,
WRITE, Opposite Cut Flower Exchange,
TELEGRAPH OR TELEPHONE. NEW YORK CITY.

N. F. McCARTHY & CO.

Best Quality
CUT FLOWERS
and Supplies.

Tel. 734 and 64 Main. 84 Hawley St., BOSTON.

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg, 6th Ave. and W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock
Every Morning

DESIRABLE WALL SPACE TO RENT
FOR ADVERTISING.

JOHN DONALDSON, Secretary.

Hardy Ferns...

Everything and anything in Florists'
Hardy Supplies at lowest prices. Estimates
on large orders on application.
Prompt delivery.

BOSTON FERN CO., 14 Brattle St.,
BOSTON, MASS.

Wholesale Flower Markets

Boston, Sept. 17.

Roses, Beauty, extra.....	10.00@18.00
" " medium.....	5.00@ 8.00
" " culls.....	.50@ 2.00
" " Bride, Bridesmaid, Meteor.....	.75@ 2.00
" " extra.....	4.00@ 6.00
" " Kaiserin, Carnot.....	3.00@ 5.00
Sweet peas.....	15@ 20
Carnations.....	.50@ 1.50
Asters.....	15@ 50
Gladioli Shakespeare.....	2.00@ 4.00
Lily of the valley.....	2.00@ 4.00
Lilies, Harrishi.....	3.00@ 5.00
" " Japan.....	2.00@ 3.00
Adiantum.....	.75@ 1.00
Asparagus.....	50
Smilax.....	12.50@18.00

PHILADELPHIA, Sept. 17.

Roses, Tea.....	2.00@ 4.00
" " extra.....	4.00@ 6.00
" " Beauty, extra.....	15.00@ 20.00
" " firsts.....	8.00@12.00
" " Queen of Edgely, extra.....	20.00@25.00
" " firsts.....	10.00@15.00
Carnations.....	50@ 1.50
Lily of the valley.....	3.00@ 4.00
Asparagus.....	25.00@50.00
Smilax.....	10.00@15.00

BUFFALO, Sept. 18.

Roses, Beauty.....	6.00@25.00
" " Bride, Bridesmaid, Meteor.....	3.00@ 6.00
Carnations.....	1.50@ 2.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50

M. L. HENDERSON, of Laurelbranch,

N. C.

is located in the mountains of North Carolina,
where as fine a galax leaf grows as grows in
the world (green or bronze). Price given on
application. Wholesale trade solicited.

Please mention the American Florist when writing.



HARDY Cut Dagger and
Fancy Ferns.
A No. 1 quality \$1 per 1000.
Brilliant Bronze and Green
Galax, \$1 per 1000, in 5,000 lots.
Laurel Festooning, 4, 5 and
6c per yard. Orders by mail,
telephone or telegraph
promptly attended to. Dis-
count on large orders. L. D.
telephone 2618 Main.

HENRY M. ROBINSON & CO., 32-36 Court Sq., Boston.

PLEASE mention the AMERICAN FLORIST
every time you write to an advertiser.

FANCY OR DAGGER FERNS

1st quality, 75c per 1000. Discount on large orders.

BRONZE OR GREEN GALAX \$1.00 PER 1000.

LAUREL FESTOONING

just the thing for
summer decorations, only 4, 5 and
6c per yd. Discount on ferns
and laurel in large quantities.



Galax

Bronze or Green, \$1.00 per 1000.
SOUTHERN SMILAX, best qual-
ity, 50 lb. case \$6.00; 35 lb. case
\$4.50; 25 lb. case \$3.75. PALM LEAVES, \$1.50 and
\$2.00 per 100. FANCY FERNS, \$2.00 per 1000; DAG-
GER, \$1.50 per 1000. LEUCOTHOE SPRAYS, bronze
and green, assorted sizes, \$1.00 per 100. SPHAG-
NUM MOSS, \$1.50 per bale.

L. J. KRESHOVER,
110-112 W. 27th Street, NEW YORK CITY.
Telephone call 597 Madison Square

If it is grown in Florida,

we supply it.

Florida grown CYCAS LEAVES, fresh or pre-
pared; PALM LEAVES, TRUNKS, CROWNS,
SPANISH MOSS, FLORIDA ORCHIDS,
"COONTIE", etc., etc.

Seminole Palm Co., Haines City, Fla.

Give Us a Trial. We Can Please You.



Roses, Carnations and all kinds of
Seasonable Flowers in stock.

WM. F. KASTING, Wholesale Com-
mission Florist,
481 Washington St., Buffalo, N. Y.
Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

Beauties and Valley Leo. Neissen,

IN QUANTITIES.

WHOLESALE FLORIST,

On and after Sept. 15th will be open from 7 a. m. till 8 p. m. until further notice.

N. W. Cor. 13th and Filbert Sts., Phila.

FOR SEASONABLE FLOWERS

SEND TO

JOHN I. RAYNOR, WHOLESALE COMMISSION FLORIST.

Telephone 1998 Madison Square 49 W. 28th St., NEW YORK.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.

Are supplying the most superb stock of SUMMER FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.

SEND FOR QUOTATIONS.

Walter F. Sheridan,
Wholesale Florist,

Telephone 902 Madison Square.

39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square.



MOORE, HENTZ & NASH

Wholesale Commission Florists,

65 and 57 West 26th St., NEW YORK CITY.

Adjoining New York Cut Flower Co. salesroom. Finest Salesroom in the Trade. Inspection Invited. All business, selling or shipping, strictly commission.

WHOLESALE WILLIAM GHORMLEY, COMMISSION

RECEIVER AND SHIPPER OF FRESH CUT FLOWERS. DAILY STOCK OF ALL THE CHOICEST VARIETIES FROM BEST GROWERS WHO SHIP TO NEW YORK.

ORCHIDS, ROSES, CARNATIONS, VALLEY.

Telephone 2200 Madison Square,

57 WEST 28th STREET, NEW YORK CITY.

JOHN YOUNG

Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.

51 West 28th St., NEW YORK. Tel. 1905 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN NEW YORK CITY FOR

Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

WM. H. GUNTHER, New York. 30 West 29th St., Telephone 551 Madison Square.

Frank Millang

Open from 6 a. m. to 5. p. m.

Cut Flower Exchange, 55-57 W. 26th St. Phone 299 Madison Square. NEW YORK.

ESTABLISHED 1872.

JOHN J. PERKINS,

COMMISSION FLORIST,

Solicits Consignments or Shipping Orders. Satisfaction given in both.

Write for Terms. 115 West 30th St., New York.

Bonnot Bros.

WHOLESALE FLORISTS.

65 and 57 W. 26th St. Cut Flower Exchange. New York.

OPEN 6:00 A. M.

An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.

Traendly & Schenck

NEW YORK CITY,

38 W. 28th Street, Cut Flower Exchange. New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

NEW YORK, Sept. 17.

Roses, Beauty, select.....	12.00@20.00
" " medium.....	5.00@12.00
" " culls.....	.50@ 2.00
" " Bride, Bridesmaid.....	.25@ 5.00
" " Liberty, Meteor.....	1.00@ 5.00
" " Testout, Kaiserin, Carnot	1.00@ 6.00
Carnations.....	.25@ 1.00
Lily of the valley.....	1.00@ 3.00
Lilies.....	3.00@ 5.00
Asters, per 100 bunches	1.00@ 3.00
" " sprays.....	.25@ .75
Sweet peas, per 100 bunches,	1.00@ 2.00
Cattleyas.....	25.00@ 60.00
Smilax.....	4.00@ 8.00
Adiantum.....	.50
Asparagus.....	35.00@ 50.00
" " Sprenger, doz. bun.	2.00@ 3.00

RELIABLE AT ALL SEASONS.

Best Flowers.

REASONABLE PRICES.

J. K. ALLEN

Telephone 167 Madison Square.

OPEN AT 6 A. M. DAILY.

106 W. 28th St., NEW YORK.

FORD BROS.

Receivers and Shippers of

FRESH FLOWERS,

111 West 30th St., NEW YORK. Telephone 157 Madison Square.

Julius Lang

53 West 30th Street, NEW YORK.

REPRESENTS THE BEST GROWERS OF

ROSES, CARNATIONS, VALLEY.

TELEPHONE 280 MADISON SQUARE.

ALEX. J. GUTTMAN,

Wholesale Commission Florist,

A full supply daily of the choicest New York and New Jersey

FLOWERS.

62 W. 29th Street, NEW YORK CITY. Telephone 1738 Madison Square.

A. H. LANGJAHR,

Wholesale Commission Florist,

BEST FLOWERS SHIPPED AT LOWEST NEW YORK PRICES.

19 Boerum Place, Brooklyn, N. Y.

TELEPHONE 939 MAIN.

...GEO. M. KELLOGG...

Largest Grower of... in the West. Cut Flowers

Give us an order and we will please you.

Our Greenhouses at PLEASANT HILL, MO.

Our Store, 905 Grand Ave., KANSAS CITY, MO

LONG DISTANCE PHONE AT EITHER PLACE.

EDW. C. HORAN!

47 WEST 28TH ST.,

Tel. 421 Madison Square,

....NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

ROMAN hyacinth bulbs, 13 to 15 centimeter grade, are practically out of the market.

ALFRED EMERICH, of Vilmorin-Andrieux & Company, Paris, is due at New York to-day on the La Touraine.

AUGUST RHOTERT arrived home September 13, on the Fuerst Bismarck, from an extended European trip.

VISITED CHICAGO: Frank Emerson, of the Western Seed and Irrigation Company, Waterloo, Neb.; Mr. Root, of Barteldes & Company, Denver, Col.

HOWARD EARL, of Burpee & Company, Philadelphia, reached home Tuesday from a two weeks' inspection trip among western and eastern seed growers. He reports many short items.

THE crop reports sent out by Nebraska vine seed growers show conditions to be worse than was feared, particularly so on cucumber seeds. These promise to be as scarce as the proverbial hen's teeth the coming season.

European Seed Crops.

The following is the condition of European seed crops as reported by special correspondents by latest mail:

GERMANY.

The crop of this year is much behind on account of the wet weather which now rules in Germany and which has lasted for almost two months. We have hardly one hour of sunshine during the whole day and in the middle of August the thermometer went down some nights to 38° to 40° Fahr. Lettuce has suffered much and it is quite uncertain what will be harvested of the different varieties. About three weeks ago their aspect was very good, but this constant humidity spoils them to a great extent, chiefly on heavy and low lying soils. Beans and leeks will ripen very late; both need sunshine and warm weather. Chervil, corn salad, spinach and turnips are harvested. These seeds are the first to be cut and were benefited by a few warm days at the end of July. The crop is a good average one. Cucumbers are in a sad condition. They did not fructify and, a lot of them being rotten, it is to be presumed that the crop will be insignificant, even if we get a fine autumn. Cabbages and kohlrabi are secured and will give a satisfactory crop, both for quality and quantity. Carrots are not bad at present—chiefly the long varieties. It will soon be time to cut them and everyone is hoping for fair weather in order to take off the first ripe heads. The half long and short sorts are not so good as the long ones. Red and fodder beets are in a fair state; the crop will certainly be sufficient, the grains being now developed and out of danger. This is about all that can be said of vegetables at present, although parsley, leek, onions and radishes seem in good condition, but these last named are not of great importance in the Queclinburg and Erfurt seed growing districts.

Flowers show the effects of the bad weather, the colors not being so bright as they appear in the sunshine. For instance, the extensive nasturtium fields which ordinarily delight the numerous visitors by their splendid and varied colors, are mournful to behold. Aster, stocks, antirrhinum, lobelia, tagetes, phlox, verbena and other flowers are at least three weeks later than in a normal season, and it is not likely that they can now make up the delay, as the nights begin to get cooler and longer.

FRANCE.

In France the seed-growing districts complain much of the want of water, just the contrary to what is the case in Germany. Last week some rain fell in the western provinces, but it seems too late and not sufficient in quantity to do much good. The present aspect of the crops is not bad, but it might have been far better if rain had come some weeks earlier. Carrots, especially, and red beets (very important crops) have not progressed. In July these two things promised excellent crops but the drought and strong winds have made the quantities far lower than expected. Cabbage, turnips, kohlrabi, celery and chervil are harvested and the growers satisfied with the quantities. Fodder beets show a good state except in the south, where the crop seems to be deficient. Fodder carrots, on the contrary, are good in the south and satisfactory in the center.

Beans, an important item, seem to have gone off. For some weeks after germination the young

plants showed sufficient development, but the continued drought dried up many flowers and the quantities likely to be gathered do not at all answer to previous expectations. They look a little better in the south on account of later sowings. Spinach, corn salad, lettuces and chicory are good, parsley, onions and leek, too. On the latter two varieties low prices are expected everywhere. Of radishes only small areas have been cultivated, but the crop, both in quantity and quality, is good, so that those who grow this article in spite of the last three bad seasons will be satisfied this year. Peas seem weaker than usual, especially the early varieties, and it is

likely that they will fetch good prices. Cucumber will be a dear article, for it is now almost certain that the crops are bad everywhere.

The flower seeds are getting on well with the exception of nasturtiums, which are bearing very few seeds.

ITALY.

The Italian seed-growing districts have yielded only a small average crop, especially lettuces and onions, leaving much to be desired. Kohlrabi and cabbage are also far under the normal.

Business is quiet yet, only small quantities having been sold up to date. This is presumably in consequence of the lateness of the season.

OVER 2,000 ACRES IN CULTIVATION.

Braslan Seed Growers Co.

Growers for the Wholesale Trade Only.
Correspondence solicited. SAN JOSE, CAL.



View of field of White Portugal Onion going to seed, 1902 Crop.

The Everett B. Clark Co.

WHOLESALE GROWERS AND DEALERS IN

Garden Seeds

SPECIALTIES:

**ONION, Southport Globes,
Turnip Seed and Sweet Corn, also
Beet, Parsnip, Carrot, Cabbage.**

With an experience of thirty-five years in selling and labeling our crops as **STRICTLY NEW ENGLAND GROWN**, the Seedsman can answer all questions without flinching when asked by the market gardener where the seeds were grown.

The Everett B. Clark Co., Milford, Conn.

RAFFIA NATURAL COLORED
VAUGHAN'S SEED STORE,
CHICAGO and NEW YORK.

**BURPEE'S
SEEDS
PHILADELPHIA.**

Wholesale Price List for Florists
and Market Gardeners.

ESTABLISHED 1802

THORBURN'S SEEDS

FREESIAS, CALLAS, LILIUM HARRISII, ETC., ETC.

If our trade bulb list has not been received, we shall be glad to send it on application.

J.M. THORBURN & CO.
(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

CALIFORNIA SEEDS and PLANTS

Burbank's Shasta Daisy Seed, 25c per 100; \$2 per 1000; \$18 per oz.
Asparagus Sprengeri Seed, \$1.60 per 1000; 5,000 for \$6; 10,000 for \$11.
Pansy Giant Mixed, \$1 per ounce; \$10.00 per lb.

PLANTS.

Burbank's Shasta Daisy, 2-in., \$10 per 100; 3 1/2-inch, \$15 per 100.
Calla Bulb, 1st size, \$4 00 per 100.
Asparagus Plumosus Nanus, fine 2 1/2-in., \$3 per 100; \$25 per 1000. 3 1/2-inch, extra fine, \$5 per 100; \$40 per 1000. 250 plants at 1000 rate. Express prepaid.

CALIFORNIA CARNATION CO.
LOOMIS, CAL.

We have the largest stock of

ARAUCARIA EXCELSA

in the country, May importation, raised from top cuttings only.

5-inch pots, 3 tiers, 10 inches and above.....	\$.50
5 1/2-inch pots, 12 to 14 inches.....	.75
6-inch pots, 15 to 18 inches.....	.75 to 1.00
Specimen.....	1.25
KENTIA FORSTERIANA and BELMOREANA, 5 1/2 to 6-in. pots, 25 to 30 inches high.....	.75
FICUS ELASTICA, 5 1/2 to 6-in., 18 to 24 inches high, from \$4.00 to \$5.00 per doz.	
BOSTON FERNS, 6-inch pots.....	.40

Cash with order please. To save express mention if pots to be taken off.

GODFREY ASCHMANN,
WHOLESALE GROWER AND IMPORTER
OF POT PLANTS,
1012 Ontario Street, PHILADELPHIA, PA.

Carnations...

Bradt, Norway, Morning Glory, Flora Hill, White Cloud, Grace, Marquis, G. Lord, Mme. Chapman, Glacier and Daybreak. Write for sizes and prices.

VIOLETS Imperial, M. Louise, Swanley White from 3-in., \$3.75 per 100; \$35 per 1000. L. Campbell, \$3.50 per 100; \$30 per 1000.

CRABB & HUNTER, GRAND RAPIDS, MICH.

It is good business policy to mention
The.... AMERICAN FLORIST
When you write to an advertiser.

CROCUSES \$1.00 Per 1000

Our consignment of Dutch Bulbs is here and we can make immediate shipment. We offer, until our stock is sold, the **Choice List of Dutch Bulbs** as given below. All choice stock, packed and shipped in good order. Send in your orders at once. Make remittance with order and save time. Orders filled promptly, as long as stock lasts. 25 at 100 rates; 250 at 1000 rates.

CROCUSES.

Separate Colors.....	100	1000
Blue and Purple.....	\$.20	\$1.25
Striped and Variegated.....	.20	1.25
White.....	.20	1.25
Yellow.....	.20	1.25
All colors.....	.15	1.00
MAMMOTH YELLOW, extra size.....	.50	1.00

HYACINTHS.

NAMED VARIETALS (SINGLE).

6 in. and over in circ.....	100	1000
Chas. Dickens.....	\$3.25	\$30.00
Gertrude.....	3.25	30.00
Norma.....	3.25	30.00
Baroness von Thuyll.....	3.25	30.00
La Grandesse.....	3.25	30.00
L'Immaculee.....	3.25	30.00
Czar Peter.....	3.25	30.00
Grand Maître.....	3.25	30.00
King of the Blues.....	3.25	30.00

SINGLE MIXED HYACINTHS.

Separate colors. 5 1/4 in. and over in circ.....	100	1000
Dark Red.....	\$2.25	\$20.00
White.....	2.25	20.00
Dark Blue.....	2.25	20.00
Yellow.....	2.25	20.00

DOUBLE MIXED HYACINTHS
all colors..... 2.25 20.00

SINGLE MIXED HYACINTHS
all colors..... 2.25 20.00

DUTCH ROMAN HYACINTHS.

4 1/4 in. and over in circ.....	100	1000
Single Rose.....	\$1.25	\$11.00
Single Red.....	1.25	11.00
Single White.....	1.25	11.00
Single Blue.....	1.25	11.00
Single Mixed all colors.....	1.10	10.00

TULIPS.

SINGLE EARLY TULIPS. Separate colors.

	100	1000
Rose and Pink.....	\$.60	\$5.50
Scarlet.....	.60	5.50
Striped.....	.60	5.50
Violet and Purple.....	.60	5.50
White.....	.60	5.50
Yellow.....	.60	5.50
FINE MIXED, all colors.....	.50	4.50
EXTRA SUPERFINE MIXED.....	.60	5.50

NAMED VARIETIES.

Artus.....	.80	7.50
Bizard Verdict.....	.65	6.00
Chrysolora.....	.85	8.00
Cottage Maid.....	.85	8.00
Couleur Ponceau.....	.65	6.00
Duchesse de Parma.....	.65	6.00
La Reine.....	.70	6.50
L'Immaculee.....	.70	6.50

DOUBLE TULIPS.

Finest Mixed.....	.60	5.50
-------------------	-----	------

PARROT TULIPS.

Finest Mixed.....	.65	6.00
-------------------	-----	------

SPANISH IRIS.

Finest Mixed.....	.45	4.50
-------------------	-----	------

NARCISSUS.

Double Incomparable.....	.50	4.00
Double Orange Phoenix.....	.40	3.00
Single Bicolor Empress.....	1.35	12.50
Single Bicolor Horfieldii.....	1.35	12.50
Single Incomparabilis.....	.40	3.50
Single " Stella.....	.40	3.50
Single Poeticus.....	.30	2.75
Single Trumpet Major.....	.80	7.50
Single Finest Mixed named varieties.....	.40	3.50
Choice Mixed.....	.30	2.50

This advertisement will not appear again, so order quick before stock is sold or assortment is broken.

THE PAGE SEED CO., Greene, N. Y.

Cut Gladiolus Spikes

of the **HIGHEST QUALITY**, in lots of from 100 to 100,000. Pink, scarlet, crimson, white, light, yellow, blue, lavender and heliotrope; in fact, almost every shade imaginable.

Write for prices and particulars, stating your requirements.
ARTHUR COWEE, "Meadowvale Farm," Long Dist. 'Phone, **BERLIN, N. Y.**
U. S. Representative and Grower of **GROFF'S HYBRIDS.**
Watch this space for bulb advertisement later.

B. & A. SPECIALTIES

ENGLISH MANETTI.....	\$12.00 per 1000
FRENCH MANETTI.....	\$10.00 per 1000

ASK FOR FALL CATALOGUE NOW READY.

BOBBINK & ATKINS, Rutherford, N. J.

Zirngiebel Giant Pansies.

Trade packages at one dollar each. Also plants of the above strains at \$5.00 per 1000, guaranteed equal to any that we ever sent out.

DENYS ZIRNGIEBEL, Needham, Mass.



H. Wrede, LUNEBURG, GERMANY
PANSY SEED.
155 First Prizes, the highest awards Chicago, Hamburg 97, Paris 1900. 1000 Seeds, finest mixed, 25c-1 oz. " " \$2.25

Price List on application. Cash with order.

FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture.

In Trade Packages at \$1.00 each.
M. B. FAXON,
Lock Box 1528, BOSTON, MASS.
Correspondence solicited.

PANSIES

Roemer's Superb Prize Pansies.
The World's Best.

STONG, FINE STOCKY PLANTS,
Mixed colors, by mail, 75 cents per 100; by express, \$4.00 per 1000; \$7.00 per 2000; \$10.00 per 3000; \$15.00 per 5000. Cash with order.

PETER BROWN, Lancaster, Pa.

100,000 PANSIES

Highest Grade, Finest Stock. The Jennings Strain.
Mr. John Lewis Childs, of Floral Park, N. Y., says of the Jennings Strain: "The largest and finest colored flowers I have ever seen." By mail 75c per 100; by express, \$4.00 per 1000; 3,000 \$11.00; 5,000 \$18.00. Separate colors same price. Large plants ready to bloom Oct. 1st, \$1.00 per 100; \$8.00 per 1000. **SEED, \$1.00 per pkt.; \$5.00 per oz. CASH WITH ORDER.**

E. B. JENNINGS, Lock Box 264, Southport, Conn.
Grower of the Finest Pansies.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSEYMEN.

CHAS. A. ILGENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

PROF. L. R. TAFT, Agricultural College, Mich., has been appointed state inspector of nurseries and orchards.

THE crop of southern natural peach pits is reported much shorter than was anticipated. Some collectors fear they are oversold.

A CONVENTION of the nut growers of the southern states will be held at Macon, Ga., October 6. A permanent organization is to be formed.

THE Stark Brothers Nursery and Orchards Company, Louisiana, Mo., has certified to an increase of its capital from \$300,000 to \$1,000,000.

THE future is sure to see a large demand for oaks for street and lawn work. When the young stock is frequently transplanted in the nursery it makes fibrous roots enough to insure safe removal, if the top is well pruned.

Cleveland.

GOOD WEATHER PUTS LIFE IN TRADE AND IMPROVES GREENHOUSE STOCK.—PROSPECTS FOR GOOD CHRYSANTHEMUMS.—CARNATIONS IN GOOD SHAPE AND PLANTINGS LARGER THAN EVER.—BUILDERS BUSY.—NOTES.

The cool weather for the past week or more has had a beneficial effect upon trade in general. Outdoor flowers have decreased in quantity, while the indoor article has decidedly improved. Some very good roses are coming into market. Carnations, while a little short in stem, show good flowers. Asters are about over, with the exception of a few late lots. Dahlias now hold the center of the stage for outdoor stock. Cosmos has not made its appearance yet. It is later than usual this year. This has been a particularly good season for chrysanthemums and some fine ones are promised in the near future. Montmort, Bergmann, Glory of Pacific and Polly Rose are grown for early. Very few Fitzwygram are handled by the growers. The amount grown this year will exceed that of last season considerably. The same may be said of carnations; fully one-third more will be grown. And from the present condition of the plants the supply of cut blooms ought to be double that of any other season.

The greenhouse builders have all their houses on the home stretch toward completion. Andrews and Kegg are putting in the glass. Schmitt, Anderson and Wilson have finished up and planted.

John Lueschner has bought a piece of ground on Detroit street, in Lakewood, on which he contemplates erecting several houses next season, as the lease on his present place expires next year.

J. D. Eisele, of the H. A. Dreer Company, Philadelphia, was a visitor in town this week.

ECHO.

GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs....

\$2.00 Per Year. Sample Copies Free.

Liberal terms to florists who take subscriptions.

THE GARDENING CO. MONS BUILDING, Chicago, Ill., U. S. A.

California Privet.

Any Size Desired up to 6 Feet.

Contracts for immediate or future delivery solicited.

Very attractive prices on car load lots, either of a single size or assorted sizes.

J. T. LOVETT, LITTLE SILVER, N. J.

CARNATIONS

Field-grown plants, strong and healthy.

NORWAY \$6.00 per hundred
G. H. CRANE 6.00 per hundred
FLORA HILL 5.00 per hundred
AMERICA 5.00 per hundred
ETHEL CROCKER 4.00 per hundred
Write for special price on the usual lots.

JOHN G. ELLINGER, Walnut and 48th Sts., PHILA.

CARNATIONS

Fine, Strong, Healthy Plants.

Marquis, Ethel Crocker, Wm. Scott, Daybreak, Peachblow, at \$1.60 per 100.

LEROY L. LAMBORN, Alliance, O.

CARNATIONS

Fine field-grown plants, Marquis and Scott carnations, elegant bushy stock, many plants 12-15 in. across, \$5 per 100; \$45 per 1000. Splendid value.

ROSES. ROSES. 100 1000
3-inch Brides and Golden Gates, \$4.00 \$35.00
3-inch Meteors, 2.50 20.00
2-inch Brides and Maids, 2.00 17.50
Fine strong plants, worth a good deal more money
W. H. GULLETT & SONS, LINCOLN, ILL.

All Carnation Plants

Crane, Marquis, Flora Hill, 5 cents
Jubilee, Daybreak, Victor, 4 cents
The weather here has been favorable and the plants are fine.

FRANK BERRY, Stillwater, Minn.

FIELD-GROWN CARNATIONS

400 Daybreak, 400 Triumph, 50 Marquis, at \$5.00 per 100; \$45.00 per 1000 250 at 1000 rates. Cash with order. All other varieties sold.

W. SABRANSKY, KENTON, OHIO.

STOCK GERANIUMS

Field-grown heavy plants. J. D. Eisele and James Davidson, our 1902 novelties, fine bedders, \$2.00 per doz. America, Beaute Poitevine, Dryden, Mrs. E. G. Hill, Frances Perkins, \$1.00 per doz. Cash please.

HENRY EICHHOLZ, Waynesboro, Pa.

THE

Gardeners' Chronicle.

A Weekly Illustrated Journal.

ESTABLISHED 1841.

THE GARDENERS' CHRONICLE has been FOR OVER SIXTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, the information furnished is of such general and permanent value that the GARDENERS' CHRONICLE is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, \$1.20 per year. Remittances to be made payable to H. G. COVE.

OFFICE:— 41 Wellington St., Covent Garden, London, England.

Strawberry Plants.

FROM POTS. Well established young plants of Clyde and Wadfield, (both immense croppers), for planting now and in August. Warranted to produce a full crop of the finest berries next spring. Price 50c per doz.; \$2.00 per 100. P. S.—100 planted now will give an ordinary family all they can use.

F. A. BALLER, BLOOMINGTON, ILL.

50,000

AZALEA AMCENA

\$12.50 per 100, \$100.00 per 1000.

10,000 AMPELOPSIS VEITCHI AND WISTARIA SINENSIS, \$1.00 per 100; \$25.00 per 1000.

YUCCA FILAMENTOSA, \$1.50 per 100; \$10.00 per 1000. Send for trade list of seedlings and ornamental stock.

SAMUEL C. MOON, Morrisville, Pa.

Look at This.

The largest and finest standards of Hydrangea paniculata grandiflora in the country at reasonable rates. Splendid standards of Forsythias and Weeping Lilaes, all in true tree form and carefully staked. Immense blocks of Spiraea Anthony Waterer, S. trilobata, Viburnum tomentosum and all the fine shrubs on the market.

HOOPES BRO. & THOMAS,

Maple Ave. Nurseries, WEST CHESTER, PA.

600,000 CAL. PRIVET

1, 2, 3 and 4 YEARS OLD.

1, 2, 3 and 4 FEET.

1, 2, 3 and 4 DOLLARS PER 100.

Write for 1,000 Rates and Trade List.

J. H. O'HAGAN,

River View Nurseries Little Silver, N. J.

NEW FRUITS.

Golden Mayberry, strong transplants,	\$1.00	1000
Iceburg Blackberry, "	4.00	
Rathbun Blackberry, "	3.00	25.00
Cumberland Raspberry, "	3.50	30.00

The Conard & Jones Co, West Grove, Pa.

LAUREL HILL Nurseries, F. BRUNTON Manager.

Importers and growers of Choice Hardy Perennials. Native Trees, Shrubs, Specimen Evergreens. We grow large quantities of Iris, Paeonias, Tritomas, Phlox, Delphiniums; stock is perfectly hardy, true to name. Send for Special Catalogue of New Hardy Alpine Iris, now in the press. STOCKBRIDGE, MASS., U. S. A.

Tree and Shrub Seeds

and Seedlings. Send for prices. Am. Linden, 50c per lb. H. F. PERRY, ROLETA, TENN.

Special Offering of CRAIG SPECIALTIES.

**Areca Lutescens, Kentias, Ficus, Pandanus,
Begonia Lorraine, Etc.**

The stock was never as large or as fine as at the present time. We are very anxious to make room immediately and have priced the following stock unusually low considering the quality of the goods. It is to your advantage to secure your fall supply of Palms, etc., for the coming season before cold weather sets in, and bear in mind that this is

CRAIG STOCK.

Areca Lutescens.

2-inch pots	\$40.00 per 1000; \$5.00 per 100
3-inch pots, 3 plants in pot.....	15.00 per 100
4-inch pots, single.....	25.00 per 100
4-inch pots, 3 plants in pot.....	30.00 per 100
5-inch pots, 3 plants in pot, 18 inches high ..	50.00 per 100
6-inch pots, 3 plants in pot, 2 ft. high, extra fine	75.00 per 100
6-inch pots, 3 plants in pot, 2 ft. high, extra fine	100.00 per 100
16-inch pots and tubs, 8 to 10 feet high .	\$30.00 to \$40.00 each
20 to 24-inch tubs, 10 to 12 feet high	50.00 each

The plants at 50c, 75c and \$1.00 each are very fine indeed and are priced very low.

KENTIA BELMOREANA.

2-inch pots	\$80.00 per 1000; \$10.00 per 100
3-inch pots.....	20.00 per 100
4-inch pots.....	40.00 per 100
5-inch pots, 18 inches high	75.00 per 100
6-inch pots, 20 to 24 inches high	100.00 per 100
6-inch pots, 20 to 24 inches high, made up plants...	\$1.50 each

KENTIA FORSTERIANA,

2-inch pots.....	\$80.00 per 1000; \$10.00 per 100
3-inch pots	20.00 per 100
4-inch pots	40.00 per 100
6-inch pots, 2 feet high, made up plants...	\$1.00 to \$1.25 each
8-inch pots, 3 to 3½ ft. high, made up plants .	\$3 to 3.50 each
10-inch pots, 5 feet high, single	\$5.00 to 6.00 each
10-inch pots, 4 to 5 ft. high, made up plants	7.50 to 10.00 each

CROTONS, ASSCRTED VARIETIES.

4-inch pots	\$25.00 per 100
5-inch pots	50.00 per 100
6-inch pots, fine specimens	\$1.00 each
11-inch cedar tubs, made up plants	\$3.50 to 4.00 each
8-inch pots, fine specimens,	2.00 to 2.50 each
12-inch pots, fine specimens, made up plants	7.50 to 10.00 each

BEGONIA GLOIRE DE LORRAINE.

We have the largest and finest stock of this plant in America.

2-inch pots	\$140.00 per 1000; \$15.00 per 100
3-inch pots	25.00 per 100
4-inch pots	50.00 per 100
5-inch pots	75c each

FERN BALLS.

Two-year-old, in full growth and excellent condition, 75c each

BOSTON FERNS.

Grown very cool and in plenty of light.
10-inch pots, extra fine plants, bushy\$2.50 to \$5.00 each
Also fine plants at 50c, 75c, \$1.00 and \$1.50 each.

FICUS ELASTICA.

4-inch pots	\$25.00 per 100
6-inch pots, 24 to 30 inches high.....	50.00 per 100
10-inch pots, fine perfect specimens, 3 ft. high.....	\$3.00 each
8-inch pots, branched, dwarf and bushy, .	\$1.50 to 2.00 each

CYCAS REVOLUTA.

10-inch pots, extra fine.....	\$7.50 each
12-inch pots, extra fine, 20 to 30 leaves	20.00 each

ENGLISH IVY.

We have a lot of extra fine plants on trellises which are fine for decorations.

4-inch pots	\$15.00 per 100
6-inch pots.....	\$1.00 each

ARAUCARIA ROBUSTA COMPACTA.

8-inch pots, superb plants, 20 inches high...	\$2.50 to \$3.00 each
8-inch pots, superb plants, 30 inches high	4.00 each

ARAUCARIA EXCELSA GLAUCA.

7-inch pots, 15 to 18 inches high.....	\$2.00 to \$2.50 each
10-inch pots, 24 inches high	3.00 to 5.00 each

ARAUCARIA EXCELSA.

5-inch pots, 15 to 18 inches high	75c each
6-inch pots, 2 feet high	\$1.50 each

PANDANUS VEITCHII.

6-inch pots, 15 inches high	\$1.00 each
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PANDANUS UTILIS. A very large Stock.

6-inch pots	75c each
8-inch pots	\$1.50 each
10-inch pots	\$2.50 to 3.00 each

PHOENIX CANARIENSIS.

8-inch pots, very fine plants, 3 to 3½ ft. high.....	\$2 to \$3 each
10-inch pots, very fine plants, 4 feet high....	\$3.50 to \$4.00 each
12-inch pots, very fine plants, 5 feet high	6.00 each

CARYOTA MITIS.

8 to 10-inch pots, 3 to 5 ft. high	\$2.50 to \$3.00 each
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PTYCHOSPERMA ALEXANDRAE.

5 and 6-inch pots	75c each
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BAY TREES, STANDARD AND PYRAMID.

We still have a fine stock. Prices on application.

**ROBERT CRAIG & SON, MARKET AND 49TH STREETS,
PHILADELPHIA, PA.**

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column. Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

At Philadelphia.

As the cooler weather is setting in the bowling contingent is more lively and many warm battles are being waged on the alleys. Scarcely a day passes that several scores of 200 or over do not go on the board. At the last meeting of the Bowling Club it was resolved to offer a high game medal and also a high average handicap medal, the same to be awarded each month, the member winning either the greatest number of times in a year to be finally awarded the same. It was also resolved to hold a handicap tournament on Thursday, October 2, at which some valuable prizes will be presented.

The cups won in Asheville are yet to be delivered. Well, it is all right boys, we are in no hurry, only when you get done looking send them along and they will be placed in the case in good company. The following are the past month's averages for those who have bowled more than ten games:

Mooney.....	177	Westcott.....	159
Moss.....	149	Fletcher.....	155
Kift.....	165	Watson.....	151
Polites.....	164	Baker.....	149
Eimerman.....	163	Gibson.....	142
Harris.....	163	Hoegerle.....	136
Connor.....	162	Anderson.....	131
Kuestner.....	162	Falek.....	132

John Westcott entertained a party of his friends at his Waretown club house, on Barnegat Bay, last Saturday. Robert Craig, who has been spending a few weeks there recuperating, and we are glad to say is much improved in health, was joined by J. C. Vaughan, Michael Barker, Geo. C. Watson, W. J. Stewart, George McLean and Mr. Westcott himself. The club house is certainly an ideal place to spend a few restful days. The boat landing is but a few rods from the cottage and the fishing excellent. In the fishing contest that took place George McLean took first honors for quantity, but Robert Craig was easily first with the largest, as he hooked one which measured over seventeen inches in length and weighed something over four pounds. It gave him a great struggle, however, before it was landed, as it broke the line near the pole. But the floating cork followed and after an exciting chase in a boat the fish was hauled in. This story will no doubt be told and retold to his admiring grandchildren when he takes them on his knee, around the family fire-side in the days that are to come. K.

Cincinnati.

RETAILERS TOO BUSY TO MAKE LARGE DISPLAYS AT FESTIVAL.—HARDESTY AND CLIFTONS MAKE FINE SHOWINGS.—TRADE ACTIVE AND STOCK SCARCE.—NOTES.

The floral display at the fall festival did not bring out much competition, for nearly all the florists were too busy to enter for the prizes. Hardesty took all the first premiums and the Clifton Rose Houses the seconds. The third prizes on bridal bouquet and box of cut flowers went to Charles McCrae. The table arranged by Hardesty & Company was done in lily of the valley and Beauties, with Adiantum Farleyense. The Clifton Rose Houses had a center piece of Pandanus Veitchii and Adiantum cuneatum

around which was a fine wreath of Liberty roses, adiantum and lily of the valley. Six crescents of the same flowers, with violets as boutonnières completed this table. The bridal bouquet from Hardesty was done in white orchids, lily of the valley and Farleyense.

Business is very good, with not near enough stock for orders. Roses have slackened up somewhat but are fair in quality. The fall festival is now going on and this has caused a good demand for stock. Monday we will have a civic parade which will use an immense quantity of material.

Hardesty & Company have the decorations for the Roosevelt dinner, at the St. Nicholas hotel. They will use Beauties and lily of the valley.

Phil. Foster, brother of Ed. Foster and who for the last twelve years was employed at A. Sunderbruch's Sons, died September 16.

J. A. Peterson has his place in first-class condition and we can look for a good cut of first-class flowers from there this winter. D.

Buffalo.

TRADE NOT WHAT IT SHOULD BE.—STOCK GOOD BUT DEMAND NOT BRISK.—STORE OPENINGS MAKE USE FOR PLANTS.—NOTES.

With weather fair and cool, trade has not been what one would expect. Asters are still coming in heavily and some good white are to be found. Gladioli are fine. Carnations are scarce but of very fair quality. Brides and Bridesmaids are improving in quality. It seems strange that more Carnot are not grown around Buffalo, for they are good and sell well. Several store openings next week will make a use for everything in the decorative plant line.

The club meeting last week was a failure; no quorum. About the best that can be said for the B. F. C. is that we can get together for a banquet, picnic or to entertain a convention.

The traveling men have been thick here of late and there have been a number of other visitors, among them Richard Ludwig, of A. N. Pierson's, Cromwell, Conn., who is on a vacation.

W. F. Kasting is at home from his European trip and says he had a great time. BISON.

ELGIN, ILL.—George Souster is building an additional house 12x134. He is looking for a very busy season.

SAN ANTONIO, TEX.—The P. D. Hauser & Sons' Floral Company's business has been established fifteen years but the firm was only recently incorporated. They have about 35,000 square feet under glass and are doing a fine business.

Buy your wants in Field-Grown CARNATIONS

to fill your houses now, so you will have lots of Carnations this Winter. Following varieties:

MELBA	TRIUMPH
MARQUIS	DAYBREAK
WHITE CLOUD	GOV. GRIGGS
MORNING GLORY	FRANCES JOOST
ETHEL CROCKER	GENEVIEVE LORD.

Fine, Strong, Field-Grown. \$40 per 1000.

Terms, Cash with order from unknown parties.

Wm. F. Kasting, 481 Washington Street, Buffalo, N. Y.

Please mention the American Florist when writing.

A TAIL OF A COW.



ROSEBUD FARM, MICH., Sept. 6th, 1902. J. B. DEAMUD, CHICAGO, ILL.

Dear Sir:—Having read several articles in the AMERICAN FLORIST, from the pen of one styling himself Caldwell The Woodsman, to the effect that the feeding of Wild Smilax (Smilax Laciniolata) greatly increased the flow of lactical fluid when fed to the genus, bovine foemina, I purchased a few cases of Wild Smilax of Messrs. Caldwell of your city and fed them to a favorite Jersey cow, when to my great grief and loss this morning animal was found dead in her stall next morning. I have since learned that you are in some way connected as agent of this fellow, Caldwell, and desire you to inform me if he can be made responsible for my loss. He should at least be exposed and if possible, punished, for promulgating so dangerous a canard. Yours indignantly,

JOHN R. DASH, Professor of Agricultural Chemistry.

51 WARASH AVE., CHICAGO, ILL., Sept. 7th, 1902.

CALDWELL THE WOODSMAN COMPANY, Evergreen, Alabama.

Dear Sirs:—Enclosed find letter received to-day. Can you offer any explanation? It will certainly give the sale of Wild Smilax (as cow feed anyway) a tremendous setback unless promptly and satisfactorily explained. Yours very truly,

J. B. DEAMUD.

GETMORE FARM, NEAR BELLEVILLE, ALA., Sept. 11, 1902.

MR. J. B. DEAMUD, Chicago, Ill.

My Dear Deamud:—Mr. Beaven forwarded your esteemed favor of the 7th with the enclosure to me on "me" estate, where I have for the past two years been experimenting with a view of producing a cow that will milk all cream; this I hope to accomplish in a year or two by careful breeding and constant feeding on Wild Smilax.

I have read with much concern the letter of Prof. Dash, for I can sympathize deeply with a fellow experimenter, in the loss of a valuable animal, but the Prof. certainly did not use any of CALDWELL THE WOODSMAN COMPANY'S SMILAX, but must have gotten some of the numerous cheap sealawag shipments with which your market is flooded during the early fall, and in which is frequently found poison ivy (R. Toxicodendron), yellow jessamine, (Gelsemium Sempervirens), or the yet more deadly (to cows) Prunus Caroliniana, mixed among the foliage of the Wild Smilax. Many of these shipments are positively dangerous for men to handle and all are death to cows.

To my mind Prof. Dash's letter proves nothing if it does not prove that KWALITY KOUNTS in cow feed as well as in decorations.

Yours very truly, GEO. W. CALDWELL, Of Caldwell the Woodsman Company.

P. S.—I hate to be turned down on a scientific statement, so will send the Prof. several cases of our carefully selected stock, prepaid, (the kind, you know, which is handled by Kreshover, Bayersdorfer, Vail, Kasting, McCullough and yourself) and hope that in the interest of science the Professor will try his experiment again.

FOR KWALITY KIND WILD SMILAX

Write, wire or phone

- J. B. DEAMUD, Chicago, Ill.
- L. J. KRESHOVER, New York City.
- H. BAYERSDORFER & CO., Philadelphia.
- VAIL SEED COMPANY, Indianapolis, Ind.
- J. M. McCULLOUGH'S SONS, Cincinnati.
- W. F. KASTING, Buffalo, N. Y.
- OR DIRECT TO THE INTRODUCERS,

CALDWELL THE WOODSMAN CO. Evergreen, Alabama.

Decoratives from the deep-tangled wildwood.

A No. 1 Stock.

Nothing shipped but the very best. Looking on their freshness you will seem to hear the rustling leaf, and running stream. SOUTHERN WILLOW CO., Garland, Ala.

SOUTHERN WILD SMILAX.

\$2.50 per 50 pound case. \$1.50 per 25 pound case. VON SION RUBLES, \$1.25 per 100; \$10.00 per 1000. F. & B. LEE, MARION, ALA.

**FIELD-GROWN
Carnation
PLANTS.**

	Per 100	Per 1000
PROSPERITY.....	\$5.00	\$45.00
MARQUIS.....	5.00	45.00
EVANSTON.....	5.00	45.00

Strong, Healthy Plants.

GEO. REINBERG,
51 Wabash Ave., CHICAGO.
Please mention the American Florist when writing.

Carnation

Plants, Strong and Healthy.

PORTIA, SCOTT, DAYBREAK, PERU. \$35.00 per 1000.
MCGOWAN, very fine bushy plants, \$30.00 per 1000.
FISHER, \$25.00 per 1000.

WM. MURPHY, Wholesale Carnation Grower,
STA. F. CINCINNATI, O.

500 AMERICA

Field-Grown Carnation plants. Extra fine stock. Well worth \$5.00 per 100.

JOHN MUNO, 51 Wabash Avenue, CHICAGO.

**MARQUIS
Carnations**

2,000 extra fine field-grown Marquis at \$5.00.

L. E. MARQUISEE, Syracuse, N. Y.

**HEALTHY
FIELD-
GROWN
CARNATIONS.**

	Per 100	Per 1000
JOOST.....	\$3.00	\$25.00
SCOTT.....	3.00	25.00
HILL, medium size.....	3.50	30.00

250 at 1000 rate. Cash or C. O. D.

WM. FLUEGGE, 2791 N. Leavitt St., Chicago.

**50,000 FIELD-GROWN
CARNATION PLANTS.**

Extra fine stock. Write for prices at once.

Union Street Greenhouse Co., Geneva, N. Y.

**FIELD
GROWN
Carnations**

150 The Marquis, 200 Gen. Gomez, 200 Ethel Crocker, 200 Daybreak, 400 Frances Joost, 100 White Cloud, 100 Bon Ton, \$5 per 100.

FARQUHAR VIOLETS, 2 1/2-in. pots, \$3.00 per 100. Cash with order.

CHAS. H. GREEN, Spencer, Mass.

**DREYER'S GREAT
Annual Auction Sale**

of **PALMS, FERNS** and
Choice Decorative Plants

WILL BE HELD ON **MONDAY, SEPT. 22d, 1902,** AT 12 NOON.

The high quality of the stock at Mr. Dreyer's annual offerings is now so well recognized that further description is unnecessary here. Those wishing for catalogues or other information, can obtain same by applying to the auctioneers,

CLEARY & CO., 60 Vesey St., New York.

Come One! Come All!

CARNATIONS!

FINE, LARGE, HEALTHY FIELD-GROWN PLANTS.

	Per 100	Per 1000		Per 100	Per 1000
Flora Hill.....	\$7.00	\$60.00	Marquis.....	\$5.00	\$40.00
White Cloud.....	6.00	50.00	Guardian Angel.....	5.00	45.00
Norway.....	6.00	50.00	Prosperity.....	5.00	40.00

WIETOR BROS., 51 Wabash Ave., Chicago.

**FIELD-GROWN
Carnation Plants.**

Strong and Perfectly Healthy.

	Per 100
Marquis.....	\$6.00
Norway.....	6.00
Genevieve Lord.....	6.00
White Cloud.....	5.00
Joost.....	5.00

S. J. REUTER, WESTERLY, R. I.

**Field-Grown
CARNATIONS**

Fine, Strong, Healthy Plants.

	Per 100	Per 1000
PROSPERITY.....	\$4.00	\$35.00
GENEVIEVE LORD...	4.00	35.00

PETER REINBERG,
51 Wabash Ave., Chicago.

Surplus Stock of Field-Grown
Carnation Plants

Extra strong stock, \$4 per 100; \$35 per 1000.

E. CROCKER,	WM. SCOTT,
ELDORADO,	CERISE QUEEN.
DAYBREAK,	JOOST.
METEOR,	AMERICA,

J. B. HEISS, The Exotic Nurseries,
DAYTON, OHIO.

CARNATIONS

Field-Grown Plants, Strong and Healthy.

850 FLORA HILL.....	\$5.00 per 100
500 GLACIER.....	5.00 "
250 ETHEL CROCKER.....	4.00 "
87 GUARDIAN ANGEL.....	5.00 "
100 MORNING GLORY.....	5.00 "
75 GOMEZ.....	4.00 "
100 MELBA.....	4.00 "
100 JAMES DEAN.....	4.00 "
100 MRS. CHAPMAN.....	4.00 "
50 ELDORADO.....	4.00 "

Grown on high soil, perfectly healthy.

CENTRAL MICHIGAN NURSERY,
Kalamazoo, Mich.

OUR DIRECTORY FOR 1902 WILL BE MAILED TO YOU PROMPTLY UPON APPLICATION. PRICE TWO DOLLARS.

Montreal.

TRADE DULL AND COLORED STOCK GOING TO WASTE.—TWO EXHIBITIONS.—FIRE BRINGS SERIOUS LOSS TO A POPULAR FIRM.—VARIOUS NOTES.

The September meeting of the Gardeners' and Florists' Club was unusually well attended and two new members were elected, C. Craig and C. Bollen. After a long debate it was decided that the series of winter games should start on the third Monday of this month.

Two exhibitions have recently been held in this vicinity. The Montreal Horticultural Society had its own show and the Lachine Horticultural Society had a fair and successful exhibition. The principal winners of our club in this show were C. H. Smith, G. Trussel, Hall & Robinson, T. McHugh and F. Bennett.

The trade is quiet, with some fair stock going to waste. White flowers meet with a better fate. The winter stock is almost all housed and roses are looking fine. Carnations are exceptionally healthy. Violets, also, are very promising. The growers will have a big cut of chrysanthemums this year; imported ones are seen already.

Hall & Robinson sustained a heavy loss by fire September 12. The fire caught from a heap of shavings burning in an adjoining lot. The office, potting shed and also a part of five of their new houses were completely destroyed. A large part of the stock was ruined. The loss will amount to about \$2,500, with no insurance. The firm intends to rebuild at once. G. V.

NEW HAVEN, CONN.—F. S. Platt has reached home from a trip to California.

CHESTER, PA.—John J. Bogan, son of Michael Bogan, died very suddenly on September 8.

GERANIUM BARGAIN

Two-inch pot plants, some of them had to be topped but they will all make good plants and are certainly a bargain at \$1.50 per 100.

20,000 Rooted Cuttings

Ready now, fine strong cuttings, all correctly labeled, at \$1.50 per 100 or \$12.50 per 1000. Jean Viaud and M. de Castellane, \$2.50 per 100 or \$20.00 per 1000.

PANSIES

The kind that make money for you when they come into bloom, per 100 by mail, 75c; per 1,000 by express, \$4.00.

BONE MEAL

Best for Carnations, Roses and general use, \$3.50 per 200 lb. bag; \$32.50 per ton.

ALBERT M. HERR, Lancaster, Pa.

READ THIS AND SEND FOR

VARIEGATED VINCAS, large, bushy, field-grown plants at \$5.00 per 100, small, \$3.00 per 100. Customers are all asking for the new winter-blooming COLEUS THYRSOIDES, rooted cuttings, \$3 per 100. FORGET-ME-NOTS, BABY PRIMROSES and YELLOW DAISIES at \$1.00 per 100.

J. A. WIBE, Box 125, Downers Grove, Ill.

Orders hooked now—delivery in September—for my Nephrolepis Fern

"ANNA FOSTER"

Small plants, \$25.00 per 100; larger plants prices on application. BOSTON FERN now ready at \$25 and \$50 per 100. L. H. FOSTER, 45 King St., Dorchester, Mass.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.

PALMS.

- KENTIA BELMOREANA, 2½-inch pots, \$8.00 per 100.
- " " 3-inch pots, \$15.00 per 100
- " " 24 to 28 in., fine bushy plants, \$1.25 each; \$15.00 per doz.
- " " 30 to 32 in., perfect condition, \$1.75 each; \$20.00 per doz.
- ARECA LUTESCENS, 3-inch pots, (3 plants in pot), \$12.00 per 100.
- " " 6-inch pots, (3 plants in pot), 24 inches high, \$70.00 per 100.
- CYCAS REVOLUTA, at 60c, \$1.00, \$1.25, \$1.50 and \$2.00 each.

FERNS from 2¼-inch pots.

- PTERIS Adiantoides, Pteris Cretica Albo-Lineata, Pteris Alexandræ, Pteris Ouvrardi, Pteris Serrulata, each, \$2.50 per 100.
- ONYCHIUM JAPONICUM, \$3.00 per 100.
- ADIANTUM PUBESCENS, \$3.00 per 100.
- Good assortment of FERNS, our selection of varieties, \$20.00 per 1000.

ASPARAGUS.

- PLUMOSUS, 2½-inch pots, \$4.00 per 100; 3-inch pots, \$6.00 per 100.
- SPRENGERI, 2-inch pots, \$2.50 per 100; 2½-inch pots, \$3.00 per 100.
- DRACÆNA GODSEFFIANA, 3-inch pots, \$1.50 per dozen.
- MARANTA MASSANGIANA, 2½-inch pots, \$3.00 per 100.

XXX PRIMROSES.

IMPROVED CHINESE. Ready for 3-inch pots. Well known as the finest large-flowering fringed varieties grown, single or double, \$2.00 per 100; \$18.00 per 1000. CASH. Extras added liberally. The Home of Primroses. JOHN F. RUPP. SHIREMANSTOWN, PA.

PRIMULAS,

CHINESE PRIMROSES,

- Fine plants in assorted colors, \$2.00 per 100.
- Asparagus Plumosus, 2-inch pots at \$3.00 per 100; \$25.00 per 1000.
- Phrynum Variegatum, out of 4-inch pots, at \$15 per 100.
- Umbrella Plants, out of 4-inch pots, at \$4 per 100.
- Areca Lutescens, fine stocky plants, out of 7-inch pots at only 75c each. Cash with order.

THE LIVINGSTON SEED CO. COLUMBUS, OHIO.

Calif'nia

ASPARACUS PLUMOSUS, Extra fine 2½-inch stock, \$3.50 per 100; \$30.00 per 1000. 3-inch, \$4.00 per 100; \$25.00 per 1000. EXPRESS PREPAID.

Pansy Seed, 1902 Giant of California. \$4.00 per ounce, ¼ ounce at same rate.

FIELD-GROWN CARNATIONS, QUEEN LOUISE.....\$7.10 per 100 MEKMAID..... 6.00 per 100

LOOMIS FLORAL CO., Loomis, Cal.

ASSORTED FERNS

Best varieties only, well grown, \$3.00 per 100; \$25.00 per 1000.

F. E. SHAW, 328 Sunset Ave., Ulica, N. Y.

Smilax

Fine strong Smilax worth planting, \$1.25 per 100. OTTO HANSEN, MONT CLARE, ILL.

Please mention the American Florist when writing

Foliage Plants

Healthy, well-grown stock, can be sent now by freight. Three sold at dozen rates. 10 per cent discount for cash on orders from \$5.00 up.

	Size pot, High.		Leaves, Doz.
	Inch.	Inch.	
Dracæna fragrans.....	8	35	15-18 \$12.00
" " " ".....	6	20	10-12 5.00
Latania Berberica.....	6	30	6-7 8.00
Phoenix.....	6	35	6-8 8.00
Boston Fern, 10 inch pan. specimen.....			20.00
" " " ".....			6.00
Washington Fern, 8 inch pots, 4 to 5 feet.....			10.00
Sago Palm (Cycas).....			\$5.00 to 15.00
Maranthas, Dieffenbachias, Anthuriums, Sansevierias, 4 and 5 inch pots.....			\$3.00 and 4.00
Ferns in mixture, Selaginellas, small Marant- tas, etc., for jardinières, etc.....			1.00
Nephrolepis and Lomaria Gibba Ferns, 2-inch pots.....			\$1.00 per 100

N. STUDER, Washington, D. C.

A FEW GOOD THINGS YOU WANT.

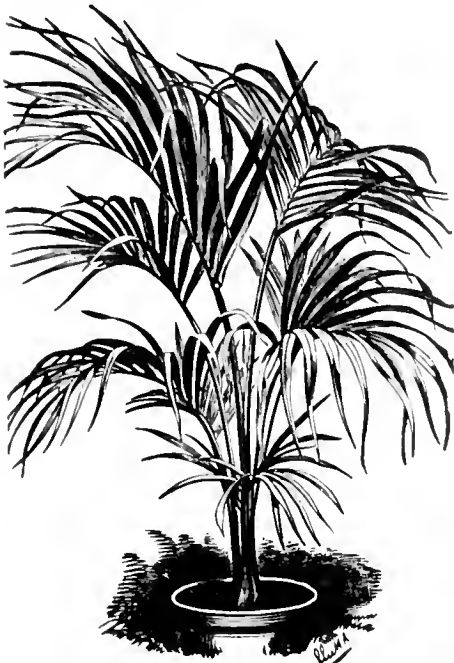
- ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
- KENTIA Belmoreana and Forsteriana, extra clean and well grown plants, 2½, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
- REX BECONIA, 2 and 3-inch, \$4 and \$5 per 100.
- BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.
- FERN, Cordata Compacta, 2 and 3-inch, \$4 and \$10 per 100.
- ASPARACUS Plumosus, 2-inch, \$5; 3-inch, \$8, Sprengeri, 2-inch \$3; 3-inch, \$5, per 100.
- DRACÆNA INDIVISA, 4, 5-in., \$10, \$25 per 100.
- ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100.
- SMILAX, 2 inch, \$1.00 per 100.
- CAMPBELL VIOLETS, 3-inch, \$4.00 per 100.
- GERANIUMS, rooted cuttings, standard varieties; your choice \$1.25, my choice \$1.50 per 100.
- VINCA VAR., 3-inch, \$1.00 per 100.
- CINERARIA, 2-inch, \$2.00 per 100.
- Chinese Primrose, 2-in., \$3; 3-inch, \$5 per 100.

Cash or C. O. D. GEO. M. EMMANS, NEWTON, N. J.

Please mention the American Florist when writing.

DREER'S PALMS.

Now is the time to secure your supply of Palms for the coming season's trade. All the varieties and sizes here offered are in excellent condition and of good value.



KENTIA.

ARECA LUTESCENS.

2-inch pots, 8 to 10 in. high, 1 plant in pot.....	Doz.	100	\$.75	\$ 4.00
3-inch pots, 10 to 12 in. high, 2 plants in pot.....			1.00	8.00
4-inch pots, 15 to 18 in. high, 3 plants in pot.....			2.50	20.00
5-inch pots, 18 in. high, 3 plants in pot.....			5.00	40.00
6-inch pots, 24 to 26 in. high, 5 to 6 plants in pot.....			9.00	75.00
6-inch pots, 28 to 30 in. high.....			12.00	100.00
8-inch pots, 30 to 36 in. high, 3 plants in pot.....			18.00	150.00
10-inch pots, 42 to 45 in. high, 3 plants in pot.....			5.00	60.00

COCOS WEDDELIANA.

A good lot of 3-inch pots, 10 to 12 inches high, \$2.00 per dozen; \$15.00 per 100.

KENTIA BELMOREANA.

2 1/4-inch pots, 4 leaves, 8 to 10 in. high.....	Doz.	100	\$1.50	\$12.00	\$100.00
3-inch pots, 5 leaves, 12 to 15 in. high.....			2.50	20.00	180.00
4-inch pots, 5 to 6 leaves, 15 to 18 in. high.....			4.50	35.00	300.00
5-inch pots, 6 leaves, 18 to 20 in. high.....			7.50	60.00	
6-inch pots, 6 to 7 leaves, 18 to 20 in. high.....			9.00	75.00	
6-inch pots, 5 to 6 leaves, 24 in. high.....		Each.	\$1.00	\$12.00	\$120.00
6-inch pots, 6 leaves, 24 to 28 in. high.....			1.25	15.00	
6-inch pots, 6 leaves, 28 to 30 in. high.....			1.50	18.00	
7-inch pots, 6 to 7 leaves, 30 to 32 in. high.....			2.00	24.00	
8-inch pots, 6 to 7 leaves, 36 to 42 in. high.....			2.50	30.00	

KENTIA FORSTERIANA.

2 1/4-inch pots, 4 leaves, 8 to 10 in. high.....	Doz.	100	\$1.50	\$12.00	\$100.00
3-inch pots, 5 leaves, 12 to 15 in. high.....			2.50	20.00	180.00
4-inch pots, 5 to 6 leaves, 15 to 18 in. high.....			4.50	35.00	300.00
6-inch pots, 5 to 6 leaves, 24 to 26 in. high.....		Each.	\$1.00	\$12.00	\$120.00
6-inch pots, 5 to 6 leaves, 30 in. high.....			1.25	15.00	
6-inch pots, 5 to 6 leaves, 30 to 36 in. high.....			1.50	18.00	
7-inch pots, 6 leaves, 30 to 36 in. high.....			2.00	24.00	
8-inch pots, 6 leaves, 42 in. high.....			2.50	30.00	
8-inch pots, 6 leaves, 42 to 48 in. high.....			3.50	42.00	
8-inch pots, 6 leaves, 48 in. high.....			4.00	48.00	
9-inch pots, 6 to 7 leaves, 5 feet in height.....			7.50		

PHOENIX RECLINATA.

2-inch pots.....	Doz.	100	\$.75	\$ 6.00
3-inch pots.....			1.25	10.00
4-inch pots.....			3.00	25.00

PHOENIX RUPICOLA.

2-inch pots.....	Doz.	100	\$1.00	\$ 8.00
3-inch pots.....			1.50	12.00
4-inch pots.....			4.00	30.00

PTYCHOSPERMA ALEXANDRAE.

A fine lot of strong 5-inch pots of exceptional value 24 inches high \$3.00 per dozen; \$25.00 per 100.

THE PIERSON FERN, (Nephrolepis Piersoni).

We are now hooking orders for spring delivery of this, the most valuable fern introduced in many years, at \$9.00 per dozen; 50 plants at 60c each; 100 plants at 50c each; 500 plants at 45c each; 1,000 plants at 40c each.

MADE-UP KENTIAS.

3 plants in a 3-inch pot, 15 in. high.....	Doz.	100	\$4.50	\$35.00
3 to 4 plants in a 7-inch pot, 36 to 40 in. high.....			2.50 each	
4 plants in a 9-inch pot, 42 to 48 in. high.....			5.00 each	

LATANIA BORBONICA.

2 1/4-inch pots, 4 to 5 leaves.....	Doz.	100	\$.60	\$ 6.00	\$40.00
3-inch pots, 5 to 6 leaves.....			1.00	8.00	75.00
4-inch pots, 5 to 6 leaves, 15 in. high.....			2.50	20.00	
6-inch pots, 5 to 6 leaves, 18 to 20 in. high.....			9.00	75.00	
8-inch pots, 6 to 7 leaves, 24 in. high.....	Each.	Doz.	\$1.50	\$18.00	
8-inch pots, 6 to 7 leaves, 30 in. high.....			2.00	24.00	
8-inch pots, 7 to 8 leaves, 36 in. high.....			2.50	30.00	

PHOENIX CANARIENSIS.

6-inch pots, 24 to 26 in. high, bushy, stocky plants.....	Each.	\$1.25
7-inch pots, 26 to 28 in. high, bushy, stocky plants.....		1.75
8-inch pots, 28 to 30 in. high, bushy, stocky plants.....		2.00

For the most complete line of General Florists' Stock see our Quarterly Wholesale List Issued September 1.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA PA.

Pansies Worth Raising.

Seed, 3/8 oz.....\$1.00
Plants, per 1000.....4.00

FERNS...

FOR JARDINIERES.

Assorted from flats, \$1.50 per 100 clumps.
Assorted from pots, \$3.00 per 100 plants.

BOSTON FERNS

From \$15.00 to \$50.00 per 100.

RUBBER PLANTS, \$30.00 per 100.

ASPARAGUS PLUMOSUS

\$5.00 to \$10.00 per 100.

ALL A NO. 1 STOCK.

Sample lots for \$2.00 worth at above rates.

All plants f. o. b. express here.

CASH WITH ORDER.

CHR. SOLTAU,

199 GRANT AVENUE, JERSEY CITY, N. J.

Field-Grown ASPARAGUS SPRENGERI

Nice clumps at \$3.00 and \$5.00 per 100.

C. WINTERICH, DEFIANCE, OHIO.



ARECA LUTESCENS, per doz.—2 1/4-inch, 75c; 3, \$1; 3 1/2, \$2; 4, \$3.
KENTIA BELMOREANA, per doz.—2 1/4-inch, \$1.50; 3-inch, \$2; 3 1/2-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20; 6-inch, \$18.
KENTIA FORSTERIANA, per doz.—2 1/4-inch, \$1.50; 3-inch, \$2.00; 3 1/2-inch, \$3.60; 5-inch, \$7.20.
LATANIA BORBONICA, per doz.—2 1/4-inch, 60c; 3, \$1; 6, \$7.20; 7, \$10.
PANDANUS VEITCHII, per doz.—5-in., \$12; 6 in., \$18; 8-in., \$42.
PANDANUS UTILIS, 4-in., \$3 per doz.
NEPHROLEPIS BOSTONIENSIS, per doz.—5-in., \$3; 6-in., \$3; 7-in., \$9; 8-in., \$12; 9-in., \$18; 10-in., \$24.
ASPARAGUS PLUMOSUS NANUS, per 100—2-in., \$4; 3-in., \$8; 4, \$12.
ASPARAGUS SPRENGERI, per 100—4-inch, \$12.
PHOENIX CANARIENSIS, 6-inch, \$6 per doz.
SEAFORTHIA ELEGANS, 5-inch, \$5 per doz.
DRACAENA INDIVISA, 4-in., \$2; 5-in., \$3; 6, \$5; strong, \$3 per doz.
ADIANTUM, 2 in., \$4; 3-in., \$8 per 100. Small ferns for dishes \$3 per 100; \$25 per 1000.
FERN BALLS, well furnished with leaves, \$3 to \$5 per doz.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

Cyclamen Giganteum!

Extra Strong, 3-inch, \$5.00 per 100.
Cineraria Grandiflora, finest dwarf, \$2.00 per 100; 300 for \$5.00.
Chinese Primrose, \$2.00 per 100. Cash.

J. W. MILLER, HATTON, PA.

PAEONIAS FOR FALL...

10 distinct, best kinds, \$10.00 per 100.

Poets Narcissus, dbl. & sgl., home grown, \$5 a 1000.

Clematis, large flowering, \$2 50 per doz.; \$18 per 100.

SMILAX A few hundred fine heavy plants, one year, \$3 per 100.

F. A. BALLER, Bloomington, Ill.

Worcester, Mass.

TRADE SHOWING IMPROVEMENT BUT SOCIETY PEOPLE STILL OUT OF TOWN.—OUTDOOR STOCK STILL PLENTIFUL.—NOTES.

A gradual increase of business is noticeable, but with the exception of two or three weddings the functions that call for a display of flowers have not been numerous. The fine weather we are now experiencing has a noticeable effect on business, as the upper crust of society still lingers in the country. As yet we have had no killing frosts and the gardens are ablaze with cannas, salvias and geraniums. Asters still make up the bulk of a available flowers of the coarser grade. Carnations have not yet reached the point of steady supply and roses are rather scarce. A steady call has commenced for palms, ferns and foliage plants.

Building and repairing is nearly finished in this section and all the growers are in better shape than ever to turn out good stock. The coal situation is still keeping many of the growers on the anxious seat, as it is now necessary to fire nights for roses and other tender stock.

Lange had the decorations for the Denholm-Warren wedding, which were quite elaborate.

H. F. Littlefield and wife are sojourning in Maine for a brief vacation.

W. J. Wood and Hugo Book are cutting some very fine asters. A. H. L.

EAST BRIDGEWATER, MASS.—A small fire in the greenhouse of C. E. Field on Sunday, September 1, did about \$25 damage.

Carnation PLANTS

FINE HEALTHY STOCK.

2,500 CRANE, 1,500 AMERICA, 500 MARQUIS, rather small but stocky, \$2.00 per 100; \$18.00 per 1000.

1,200 GOMEZ, large, \$4.00 per 100; \$35.00 per 1000.

400 JUBILEE, good size, \$4.00 per 100.

1,500 CRANE, good size, stocky, \$4.00 per 100; \$35 per 1000.

W. H. WATSON, Lapeer, Mich.

Miss Louise

Faber

The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet to 6 inches to 4 feet. Flowers are of a beautiful pink, similar to a well colored Bridesmaid rose and average 2½ inches. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for Jan. delivery.

FIGG & FABER, SAN MATEO, CAL.

New Scarlet "ORIOLE" Carnation....

Strong and healthy field plants, \$12.00 per hundred; \$100 per thousand.

JOHN B. GOETZ, Saginaw, W. S., Mich.

The Best and Cheapest Asparagus Sprengeri

FIELD-GROWN STOCK

which we are offering at \$4.00, \$6.00 and \$8.00 per 100. These will require 4, 5 and 6-inch pots to accommodate them. Pot-grown stock costs double the price and is no better.

NATHAN SMITH & SON, Adrian, Mich.

100,000 Field-Grown CARNATION PLANTS

Plants now are in first-class condition. We have no stem rot.

QUEEN LOUISE (late propagated).	PROSPERITY.	NORWAY.
BUTTERCUP (late propagated).	HOOSIER MAID.	IRENE.
	\$7.00 per hundred.	
GENEVIEVE LORD.	MARQUIS.	VICTOR.
GOMEZ.	ELDORADO.	PORTIA.
	\$5.00 per hundred.	DAYBREAK.
		C. A. DANA.

J. L. DILLON, - - - BLOOMSBURG, PA.

ROSE PLANTS.

CLEARANCE SALE—Brides and Meteors, \$2.50 per 100; \$19.00 per 1000. Repeated three times. Elegant stock. Never offered better plants. Unknown parties cash with order.

BRANT & NOE, FOREST GLEN, CHICAGO

20,000 Healthy Strong Field-Grown Carnation Plants

All cuttings taken from flowering stems: 15,000 Lizzie McGowan, \$3.00 per 100 3,000 sport of McGowan, white, more dwarf and robust, \$3.00 per 100. 3,000 Russell, good pink, moves easily, \$1.00 per 100.

AARON KEITER, Parker Ford, Pa.

CARNATIONS FOR SALE or EXCHANGE.

McGowan, Scott, Kitty Clover, Tidal Wave and a pink seedling very light in color and much better variety than Scott ever was. All plants in fine shape. All \$1.00 per 100, except seedling which is \$8.50. Will exchange for violets, double or single; Asparagus Plumosus, or good scarlet Carnation. If anything else to exchange write.

E. WICKERSHAM & CO., POTTSTOWN, PA.

All The Best CARNATIONS

Orders booked now for fall delivery.

SEND FOR PRICES.

Rotted cuttings and young plants all out.

GEO. HANCOCK & SON, GRAND HAVEN, MICH.

ALWAYS MENTION THE.....

....AMERICAN FLORIST

WHEN WRITING ADVERTISERS.

CARNATIONS

FIELD-GROWN PLANTS.

	Per doz.	Per 100
CRESSBROOK, extra strong } 1st. \$3.00	\$15.00	
early propagated, } 2nd. 2.50	12.00	
NORWAY, extra.....	1.50	8.00
PROSPERITY.....	1.50	8.00
GENEVIEVE LORD.....	1.00	7.00
EG-PT.....	1.00	7.00
MERMAID.....	1.00	5.00
GOETHE.....	1.00	5.00
BEAU IDEAL.....	1.00	5.00

The above are all in good shape, ready for immediate shipment. 25 plants of one variety at 100 rate.

Discount on large orders.

Order quick; stock is going fast.

H. WEBER & SONS, Oakland, Md.

Carnations

Strong, healthy, field-grown plants, grown on high land.

	100	1000		100	1000
McGowan.....	\$3.50	\$30.00	Portia.....	\$4.00	\$35.00
Crane.....	5.00	40.00	Scott.....	4.00	35.00
Crocker.....	5.00	40.00	Eldorado.....	4.00	35.00
Norway.....	5.00		Daybreak.....	4.00	
Joost.....	4.00		Victor.....	4.00	

J. J. STYER, Concordville, Pa.

CARNATIONS

Fine Plants, Second Size.

300 WM. SCOTT.....	\$2.50 per 100
400 MRS. CHAPMAN.....	2.50 "
1500 STGS. SMILAX, 7 ft. long ..	1.25 per doz

If not suited you get your money back.

The Stover Floral Co., Grandville, Mich.

PALMS, FERNS, ETC.

ARAUCARIA EXCELSA.

Size Pots.	Height.	Whorls	Each.
5-inch	12 inches	3 to 4	\$.75
5-inch	15 "	3 to 4	1.00
7-inch	22 to 24 "	4 to 5	1.50

ARAUCARIA EXCELSA GLAUCA.

Size Pots.	Height.	Whorls.	Each.
5-inch	12 inches	3 to 4	\$1.00
5-inch	14 "	3 to 4	1.25
7-inch	26 "	5 to 6	3.00

ARAUCARIA ROBUSTA COMPACTA.

Size Pots.	Height.	Whorls.	Each.
5-inch	10 inches	2 to 3	\$1.25
6-inch	14 "	3	1.75
7-inch	22 "	4	3.00

FICUS ELASTICA—RUBBER TREE.

PERFECT, SHAPELY PLANTS.

Size Pots.	Height.	Each.	Doz.	Per 100
5-inch	12 to 14 inches	\$.50	\$5.00	\$40.00
5-inch	15 to 18 "	.60	6.00	

KENTIA BELMOREANA.

Size Pots	Leaves.	Height.	Each.	Doz.
5-inch	5 to 6	22 to 24 inches	\$1.00	\$12.00
6-inch	6 to 7	28 to 30 "	1.50	18.00
7-inch	6 to 7	30 to 32 "	2.00	24.00
8-inch	6 to 7	36 "	2.50	
8-inch	6 to 7	38 to 40 "	3.50	

LATANIA BORBONICA.

Size Pots.	Height.	Each.	Doz.
6-inch	7 character leaved	20 to 24 inches	.75
7-inch	8 to 9 "	25 to 26 "	1.25
8-inch	8 "	40 to 48 inches	3.00

BOSTON FERNS.

Large stock of all sizes pot-grown plants. Write for prices.

KENTIA FORSTERIANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	5 to 6	20 to 24 inches	\$.75	\$ 9.00
5-inch	5 to 6	30 "	1.25	15.00
6-inch	5 to 6	32 to 36 "	1.50	18.00
7-inch	6	36 to 38 "	2.00	24.00
8-inch	6	48 to 50 "	4.00	

PANDANUS UTILIS.

Size Pots.	Height.	Each.	Doz.	Per 100
6-inch	20 to 22 inches	\$.75	\$ 8.00	
7-inch	24 to 26 "	1.00	12.00	

CYCAS REVOLUTA.

We can supply fine plants, well rooted, with fine, perfect crowns, in sizes from 3 to 10 lb. stems, at an average price of 15¢ per leaf.

PHOENIX CANARIENSIS.

Size Pots.	Height.	Each.
7-inch	24 to 26 inches, stocky plants	\$1.50
9-inch	4 feet, stocky plants	3.00

ASPARAGUS PLUMOSUS NANUS.

We have a very large stock of all sizes.
 2½-inch pots per doz., \$.75 per 100, \$5.00
 3-inch pots " " 1.00 " 8.00
 4-inch pots " " 2.00 " 15.00
 5-inch pots, very fine, " 4.00 " 30.00

ASPARAGUS SPRENGERI.

2½-inch pots, per 100, \$3.50 per 1000, \$30.00
 4-inch pots, per doz., \$1.50 " 12.00
 5-inch pots, " 2.50
 6-inch pots, " 5.00

CELESTIAL PEPPER, OR CHRISTMAS CHERRY.

One of the best plants for Thanksgiving and Christmas sales. We have a large stock of well grown plants.
 3-inch pots, strong, per doz., \$.75 per 100, \$ 6.00
 4-inch pots " " 1.25 " 10.00

VAUGHAN'S SEED STORE,

84-86 RANDOLPH ST., CHICAGO. 14 BARCLAY STREET, NEW YORK.
 GREENHOUSES, WESTERN SPRINGS, ILL.

2,000 ROSES

Brides and Maids

Beautiful strong plants in 3½-in. pots, 8 to 12-inch tops and in perfect condition. Prompt shipment. Cash please.

J. T. LOVETT, Little Silver, N. J.

Asparagus.

50,000 Asparagus Plumosus Nanus, extra strong bright clean plants, 2½-inch, \$3.50 per 100.

Sprengeri, fine strong plants, 2½-inch, \$3.00 per 100.

Boston Ferns, 2½-inch, \$3.00 per 100; 8-inch, 75c each.

25 Fine Rubber Plants, 3 feet, \$1.00 each. The lot for \$20.00.

CASH PLEASE.

A. J. BALDWIN, NEWARK, O.

3,000 Dbl. Pæonias

Dark Rose, \$8 per 100; \$70 per 1000.

3,000 CRIMSON RAMBLERS \$9.00 to \$12.00 per 100.

Chas. Lenker, Freeport, L. I., N. Y.

"Touchin' on and Appertainin' to"

Palms, Decorative Plants,

CARNATIONS, BULBS

and other necessary Florists' Stock, you are reminded that Regular Plant Auctions have commenced for the season.

Every Tuesday and Friday

AT THE SALESROOMS OF

CLEARY & CO., 60 VESEY ST. NEW YORK CITY

HERRON...

Carnation Grower,

OLEAN, N. Y.

Carnations, Geraniums

Cannas, Etc.

Prices quoted upon application.

The Cottage Gardens, Queens, L. I.

Syracuse, N. Y.

QUINLANS MAKE A FINE SHOWING AT THE STATE FAIR.—SOME EXCELLENT FLORAL DESIGNS.—VARIOUS NOTES.

The floral exhibit at the New York State Fair last week was one of the best that has ever been seen here and the fair attracted the largest crowd in the history of the exhibition. The only Syracuse firm that had an extensive display was P. R. Quinlan & Company, which made almost a clean sweep of the prizes, winning over \$500. The display piece which took first prize was made by W. S. Wheadon and was one of the finest ever seen here. It was an American eagle perched on a stump, grasping two flags in its talons. The eagle stood on a real stump banked with moss and ivy. The body of the bird was made of pink asters and pink roses and the wings of white asters. The bill and legs were made of yellow roses and the flags of Meteor roses, white carnations and purple asters. There were white immortelles for stars. The piece stood over seven feet high. Another first prize piece made by Mr. Wheadon was a plaque of white asters, in the center of which was a crescent wreath of pink roses tied with pink ribbon. In each corner were two crossed sago leaves with Bride roses clustered around.

Henry Morris says that the summer has been fully up to the standard. His trade has been large. He has a striking display in his windows of Tritoma Pfitzerii. This is something of an experiment with Mr. Morris, but he expects to have three times as many next year as he has this. A. J. B.

Boston Ferns.

We are headquarters in the West for them. Write us about 2 1/2, 3, 4, 5, 6, 7, 8 and 10-in. sizes.

ASPARAGUS PLUMOSUS AND SPRENGERI, 2 1/2, 3, 4 and 5-inch.

SMILAX, 2 and 3-inch.

A lot of 5-in. HIBISCUS to close at \$1.50 per doz.

CINERARIAS, in 2 1/2 and 3-inch.

GERANIUMS, rooted cuttings now ready. Write

GEO. A. KUHL, Pekin, Ill.

SPECIAL This Week

20,000 CYCLAMEN PERSICUM SPLENDENS CICANTEUM,

finest strain in the world, now ready for immediate shipment, extra well grown plants, well budded from 3-inch pots, \$8.00 per 100; \$50.00 per 1000. From 2 1/2-inch pots, \$4 per 100; \$30 per 1000. 250 plants at 1000 rate. Satisfaction guaranteed.

PAUL MADER, East Stroudsburg, Pa.

Orchids!



Arrived in fine condition: CATTLEYA TRIANÆ. The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

Lager & Hurrell, SUMMIT, N. J. Orchid Growers and Importers.

Please mention the American Florist when writing.

S. S. SKIDELSKY,

708 North 16th St., Philadelphia, Pa.

AT IT AGAIN

What everybody has been waiting for

Plant Auction Sales

Have commenced.

Every Tuesday and Friday at 9:30 A. M

Fill your houses with good stock and you fix the price.

N. F. McCarthy & Co.

84 Hawley St., Boston, Mass.

We have good customers for your surplus, too.

GRAND RAPIDS VIOLETS

Field-grown Lady Campbell and Swanley White at \$4.00 per 100; \$35.00 per 1000. Sample 10c. Cash with order.

ELI CROSS, GRAND RAPIDS, MICH.

Princess of Wales and Lady Campbell

VIOLET PLANTS.

Strong field-grown clumps from sand struck Cuttings. Ready September 1, \$5.00 per 100; \$40.00 per 1000; Samples 10 cents.

The Albert H. Brown Co., Westboro, Mass. Please mention the American Florist when writing.

VIOLETS.

Large field-grown clumps, L. H. Campbell, Imperial, Princess of Wales and California, \$5.00 per 100; \$45.00 per 1000.

Christmas Pepper, 3 1/4-inch, ready for 6-inch, \$3.00 per 100.

Parsley, large field-grown clumps, 40c per 100; \$2.50 per 1000.

Smilax, 2 1/4-inch, large bushy plants, \$1 per 100. J. C. SCHMIDT, BRISTOL, PA.

VIOLET Plants

Strong healthy field-grown plants of Lady Campbell and California, \$5 per 100; \$45 per 1000. Special rates on large lots.

RICHARD LANGLE, WHITE PLAINS, N. Y. Please mention the American Florist when writing.

An Unparalleled Trade Event.

The great Trade Exposition in connection with the Horticultural Exhibition of the New York Florists' Club, at Madison Square Garden,

OCTOBER 30 TO NOVEMBER 6.

Assignments of space are now being made and the list is rapidly filling up.

For Space, Terms and other information, apply to the Manager,

J. P. Cleary, 60 Vesey Street, NEW YORK CITY.

FOR SALE CHEAP!

3,000 FIELD-CROWN CARNATIONS. 900 FIELD-CROWN GERANIUMS. 150 VINCA VARIEGATA.

Plants all in first-class condition and will sell cheap to close out. Address

CARL E. TAUBE, Opera House Flower Store TRENTON, N. J.

Violets Strong field-grown Marie Louise, \$5.00 per hundred. Cash with order.

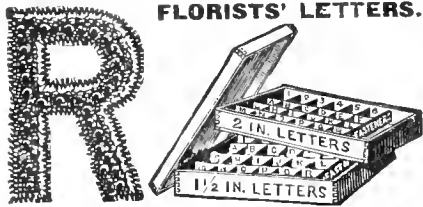
I. N. KRAMER & SON, Cedar Rapids, Iowa.

SPECIAL ROUND-TRIP EXCURSION RATES TO NEW YORK

via Nickel Plate Road. Tickets on sale October 3rd to 6th inclusive, good leaving New York not later than October 14th. Address John Y. Calahan, General Agent, 113 Adams St., Chicago, for reservation of sleeping car space and other information.

Boston Florist Letter Co.

MANUFACTURERS OF
FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.
Script Letters \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hewley St., BOSTON, MASS.

Please mention the American Florist when writing.

SOMETHING ENTIRELY NEW.

A Florists' Plate Book.

150 Plates and nearly 300 varieties for \$3.50 or three for \$10.00.

You can't do business without it.
VREDENBURG & CO., Rochester, N. Y.

LEADING Florists' Supply House M. RICE & CO.

Importers and Manufacturers,

918 Filbert Street, PHILADELPHIA, PA.
Catalogue for the asking.

Please mention the American Florist when writing.

A. HERRMANN,

- ✿ Cape Flowers, all colors,
- ✿ Cycas Leaves, Metal Designs,
- ✿ and All Florists' Supplies.

Send for Prices.

404-412 East 34th St. NEW YORK.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25. Manufactured by
W. J. COWEE, BERLIN, N. Y.
Sample Free. For sale by dealers.

HEADQUARTERS FOR HORTICULTURAL SUPPLIES
Of Every Description.

When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

DUNNE & CO., 64 W. 30th St., New York.
Telephone Call, 1700 Madison Square.

PURE, DRIED SHEEP MANURE



In ten or earload lots, for immediate delivery. Address

MONTANA FERTILIZER CO.
Box No. 153. Elgin, Ill.

The Florists' Hail Asso'n Pays Losses Promptly.

Reserve fund \$10,000. For particulars address
JOHN G. ESLER, SADDLE RIVER, N. J.

TO KILL ALL Greenhouse Bugs

USE
"NICOTICIDE"

Clean and harmless as Fumigant or Spray. Ask your seedsman for it or write to

The Tobacco Warehousing and Trading Co.,

1000 Magnolia Ave., Louisville, Ky

There's Business All Summer

If you will only work it up. Don't let your stock run down. Be sure to have everything on hand that a customer may call for. You will find every requisite listed and priced within the covers of our new Illustrated Catalogue. Free to Applicants in the trade only.

H. BAYERSDORFER & CO.,

Manufacturers and Importers,
50-56 N. Fourth St., Phila., Pa.

Please mention the American Florist when writing.




Invalid Appliance Co.,
MANUFACTURERS OF
COLUMBIA PLANT TUBS
(PATENTED)
"The kind that never fall apart."
If your seedsman doesn't handle them, order of us direct.
FACTORY AND OFFICE:
150-160 VEDDER ST., CHICAGO.
TELEPHONE NORTH 933.

WE NOW OFFER

"Chemicals"

for making LIQUID COMPOST. Dry powders all soluble in water. Composts cost less than 1/3c per gal. Correspondence invited.
EASTERN CHEMICAL COMPANY,
620 Atlantic Ave., Boston.

BEST AND Cheapest ALL-ROUND INSECTICIDE on the Market.



"ROSE LEAF" EXTRACT OF TOBACCO INSECTICIDE

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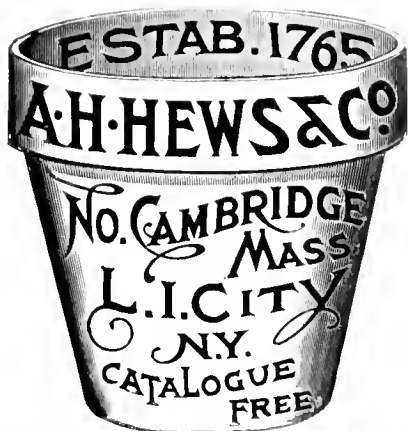
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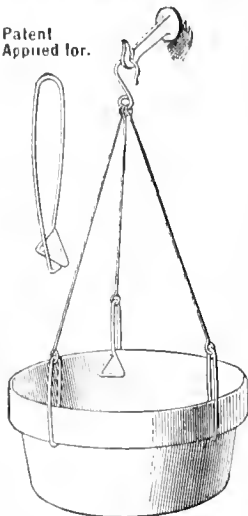
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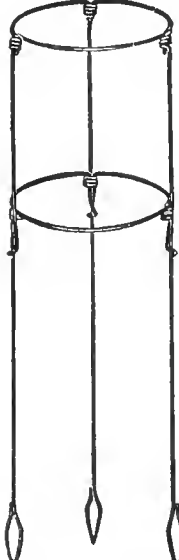
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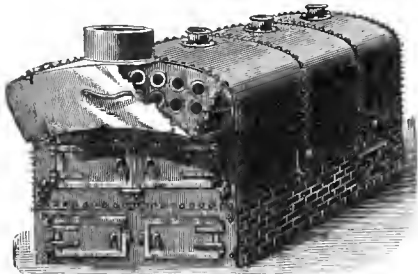
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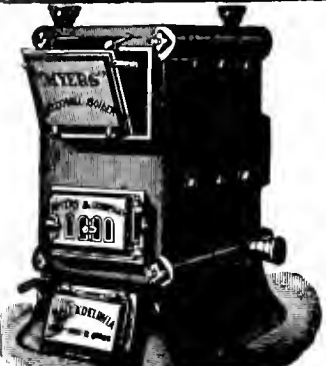
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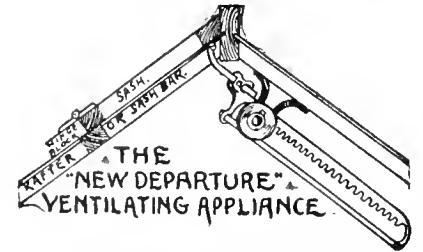
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Vol. XIX.

CHICAGO AND NEW YORK, SEPTEMBER 27, 1902.

No. 747.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—JOHN BURTON, Philadelphia, Pa., president; J. W. C. DEAKE, Asheville, N. C., vice-president; WM. J. STEWART, 79 Milk Street, Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer.

OFFICERS-ELECT—JOHN BURTON, president; C. C. POLLWORTH, vice-president; secretary and treasurer as before. Nineteenth annual meeting at Milwaukee, Wis., August, 19 3.

THE AMERICAN CARNATION SOCIETY.

Annual convention at Brooklyn, N. Y., February, 1903. ALBERT M. HERR, Lancaster, Pa., secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual convention at Chicago, Ill., November 11-15, 1902. EDWIN LONSDALE, Chestnut Hill, Pa., secretary.

AMERICAN ROSE SOCIETY.

Annual meeting at call of executive committee, LEONARD BAURON, 136 Liberty St., New York, secretary.

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Advertising for Retail Florists.

Of the many noteworthy features of the Asheville convention of the S. A. F. none attracted more attention or awakened keener interest than George W. Wienhoeber's paper on the methods of retailing cut flowers; and no part of Mr. Wienhoeber's remarks were re-read with more thoughtful care than that portion relating to advertising for the retail florist. As Robert Kift, of Joseph Kift & Son, Philadelphia, said: "I guess advertising a flower store always will be a problem. We have all tried it but few of us know enough about it to speak with any assurance. But I was much interested in Mr. Wienhoeber's paper and think I secured several pointers from it." We present herewith several expressions of opinion provoked by Mr. Wienhoeber's views:

PHILIP BREITMEYER, DETROIT, MICH.

When the paper read before the meeting at Asheville by Geo. W. Wienhoeber, of Chicago, I beg leave to say that on advertising I am of the same opinion as the writer of that most able and valuable document. The writer has gone through the matter so thoroughly that it leaves little room, if any, for suggestions.

The many things denoted by the term "advertising" may be grouped into two divisions, the one class being newspapers, periodicals, programmes and so forth, in the other the attractive features connected with the business itself and which in detail are many.

If I may be permitted to say what I think of newspaper advertising, one is very apt to be misled by the eloquent solicitor. My motto, of course, is "live and let live" and for the many courtesies received through the press we are at times obliged to reciprocate. My opinion is that to insert a plain card announcing, the occupation is the most effective. My reason for this is that a florist has few specialties to offer, the only motive being to keep your name before the people. Contrary to the views of many florists we decline to have our firm name used in programmes. They are, to my notion, most bombastic and you do well to avoid them. If one is catering to an out of town trade, it pays to use the columns of first-class periodicals.

As Mr. Wienhoeber writes in his paper, the many details connected with the transaction of business are oftentimes the best advertising. First of all have the grade of goods which sell themselves. Keep them in good order, arrange them

attractively and fill all orders as you agree to do. Exercise every effort to accomplish this. Make it a policy to finish all design work, be it ever so trifling, to avoid all criticism. That's what advertises. Be prompt in filling orders. Have persons in charge of your business equipped for their respective parts. Clerks should be well read and able to adapt themselves to any situation. They advertise and bring results which any other method cannot buy.

We believe in getting out neat announcements of coming events in our line. Keep your patrons reminded of your existence. We begin this work in October in some form. In November we do as dry goods merchants do, have an exhibition. This is not termed an opening but is on similar lines. Chrysanthemums open the season of festivities and afford an opportune time to invite the public to inspect your goods. Carry out all details so as to impress the callers with an air of completeness, so much so that if during the season they are in want they are apt to give you a call. Experience proves it a profitable investment, to my notion advertising that pays.

In conclusion let me say to every reader, do not fail to study the article by Mr. Wienhoeber; it is complete in all details.

—
GEO. WITTBOLD COMPANY, CHICAGO.

As to the best methods of advertising for retail florists, we think that they will depend entirely upon the abilities and facilities of the parties doing the advertising. The advertising that will bring the best results for high class florists like Mr. Wienhoeber would not do for his brother retailer who has not worked himself up to the same standard.

We believe in advertising, but feel that it should be strictly honest, as anything represented that is beyond the capabilities and facilities of the advertiser would be harmful to his trade. We believe in a mailing list composed of parties who are interested in flowers, to whom printed matter can be sent from time to time, in which the florist feels they are interested, and which is in harmony with the goods he has to offer, so that they are kept constantly in touch with the doings of the trade.

We do not believe that expensive matter is necessary or advantageous, as such matter will have a tendency to create an exclusive trade, and we think that the florist needs orders from the middle class

as well as the rich, thus enabling him to work off certain goods at a good profit, which otherwise would go to waste. A good deal of money can be wasted by distributing advertising matter promiscuously. It is worth repeating: Do not send advertising matter to a class of trade that you cannot handle, as you will be wasting money and further will belittle yourself, even to the trade that you could take care of.

J. A. VALENTINE, DENVER.

I am inclined to think that too much of an effort is made to make the florist business seem unlike other lines of trade and governed by principles peculiar to itself. I am a firm believer in the value of an advertisement in the daily paper, especially if that "adv." says something. It should be short and right to the point, free from superlatives and earnest in its tone. It should dwell chiefly on one thing. You are likely to lose the interest of the reader if you try to make your advertisement into a florists' catalogue.

Do not crowd too much into a small space. Say less or use more space. I like two columns wide, top of column, with a clear display type. If such an advertisement does not pay a less conspicuous one is not likely to.

The theatre programme, one full page or two pages at the center fold and treated as one page, has paid us. In these we use attractive halftones from our own photographs that directly illustrate the text of the advertisement.

Artistic cards and booklets mailed to a selected list have proved profitable, but one should be careful not to mistake expense for artistic effect. On the other hand if the expense promises to be heavy either drop the idea altogether or spend all the money necessary to put it out in proper form.

was opened a few years ago, it was most violently opposed by every florist in the city. The department store course was on it and dealers in flowers who made their living by that alone thought that it would injure their trade and demoralize prices. They seemed to think we were merely going into the business to cut prices on all grades of flowers, that we would carry nothing but the cheaper stock. This was not our intention, as we wished to establish a floral department where purchasers of flowers could procure the best to be had.

To-day there is scarcely a florist in the city, we believe, who is not glad of the existence of our floral department. It is true that we compete with them closely, but we aim to supply the best, also, and they now realize that the presence of such a department in a large department store brings flowers to the notice of the people, a large class of whom would otherwise never see them. It thus created a general demand for flowers, which is the best and strongest advertisement, and during the years which the flower department has been running, every florist in the city has increased his business.

Perhaps the most effective trade bringer has been a card which we send to people whom we think will wish flowers for weddings, dinners, social functions, congratulations, etc. We clip carefully the social calendars in the papers as they appear every Sunday and then we mail a card in a sealed envelope, with 2-cent stamp, to the people who may be entertaining during the following week. We find these cards bring us in contact with the best class of people, who are in need of flowers and it is one of our best methods of advertising.

We also have a wagon for delivery, made expressly for this department. It is up to date in every particular and we

box and packed with extreme care, so that when it is opened the flowers are presented to the customer in the most pleasing and attractive way. We send packages long distances, which usually arrive in perfect condition, and this is a good advertisement for the grower.

We keep an attractive looking window, changed daily and carrying out the color scheme, being very particular that every color blends. We also have an excellent advertisement in the way of an ice box. This box is a large room, about 10x14 feet, lined throughout with white tiling, kept at a temperature of between 50° and 60°, in which we place the flowers every morning, arranging them so that they look artistic and pleasing. We can take customers right into this room where they can make their own selections from our entire stock.

We also have a department store feature not enjoyed by a regular florist. This is the bargain booth, which is used by different departments every day for special sales of different classes of merchandise. We often use this for a special sale of ferns, palms, chrysanthemum plants, or any other flower or plant in season, dressing the booth in an attractive manner. We place flowers and plants on this booth at a reduced price and the results are very gratifying, the sales being largely to the middle class who only buy cheaply and in this manner, palms, ferns and plants find their way into homes which otherwise would not have them.

Another method of advertising is to place in the different departments every morning, an attractive vase of flowers, with a card "Grown in our own greenhouses," which we find brings us much custom.

The above are only a few of the methods we use in advertising this particular branch of the store. Our methods change according to season and conditions but these are the principal means by which we keep it before the public that we are in the flower business.

A. H. BUSH.



WEDDING DECORATION BY DANIELS & FISHER CO., DENVER, COL.

But after all, a florist's window is the best advertisement for him. Pay as high a rent as necessary in order to get a good window, passed by the largest number of people in the class to which you cater, and then work that window for all it's work.

DANIELS & FISHER CO., DENVER, COL.

In regard to our methods of advertising our retail florist business, it may not be improper to state, before going into details, that when the floral department of The Daniels & Fisher Stores Company

consider it one of the finest in the west. It is entirely different in style and color from the rest of our delivery wagons, representing the best thought of the wagon maker. It is specially equipped for the safe delivery and carriage of designs, baskets, center pieces, etc. The flower wagon always attracts attention by its elegant appearance and is a good advertisement in itself.

We also have found that the careful packing of flowers is a good advertisement, through their appearance when opened up. They are put in an attractive

CARNATIONS.

NOTES ON SEASONABLE TREATMENT.

With those florists who are not fortunate enough to have their coal laid in, the matter of fuel is something of an item this fall and it becomes a question of choosing the least of two evils in regard to early firing. There is no question but that early firing, with night ventilation in order to keep the houses at the proper temperature, is a good thing for the man who grows high grade carnations; neither is there any question but that the man who pays careful attention to the other details of carnation culture and saves some money on his coal bills can have as good carnations and with a margin of profit instead of a shortage.

Where roses or other stock is grown that demands heat at this time it is a simple matter to run one pipe in the carnation houses on all cool nights, and at little expense, but where carnations are the exclusive crop there is no use firing up until the thermometer drops to below 40° in the houses, and then only temporarily, letting the fires go out again as soon as the little cold spell is over, for they are but little spells up to as late as November 15 to 20. A saving of from ten to 100 tons of coal is an item this season.

There are two or three things to be carefully watched in following up this

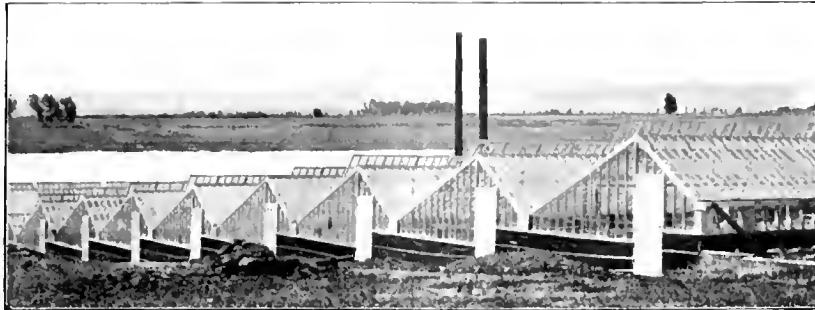
cool method of culture and perhaps of most importance is to avoid the heavy condensation of moisture on the plants that will take place when the temperature drops to 40° or below outside and the house is closed up tightly. This can be partly overcome by leaving a little ventilation on at night, even if the temperature in the house does drop to 38° or even to 35°. There is in reality not so much harm done to the general health of the plant by this condensation but it

flowers through chrysanthemum time, and it is just as well not to have many then and have what you do get away up to the top mark of perfection. Carefully disbud them and, above all other things, do not leave them on the plants after they are ready to cut in order to have a few more for a certain day. Perhaps I am a crank on some particulars but it is a hobby with me to have my flowers cut close three times a week; it is only for the fact that we do not have the time to

you get the thrips out now a fumigation every two weeks will carry them through the balance of the season.

In spite of the fact that all new introductions are described as perfectly healthy in growth, and so forth, there are very few of them that do not have carnation rust and some of them quite a good deal of it. My own experience with rust is that a new variety that is entirely free from it is not worth much of anything. This may seem paradoxical but I find that the strongest and healthiest growers among the novelties have some rust, and the poor little weak fellows that are not worth bringing in from the field have none. There may be some cure for rust, but I have yet to find it, and the only method we follow is to give the plants good treatment and pay no attention to the rust. In this manner we get good flowers all the season from some varieties that have quite a bit of rust on them. Filling the pores of the leaves with powder or even with liquid rust-cures produces poor flowers and checks the rust but a very little. Air-slaked lime sprinkled over the plants is the least harmful of these and if you want to try and keep it in check use this first, as an experiment, and other cures in very small quantities.

ALBERT M. HERR.



GREENHOUSES OF THE DANIELS & FISHER CO., DENVER, COL.

seems to be the sort of condition that carnation rust revels in and as most of our really good varieties of to-day have rust to a greater or less extent, we do not want to offer favorable conditions for its development.

Another point to be very carefully watched in this cool method of growing is to have plenty of ventilation on during the day, for to allow the temperature to run up to 90° or over during the day and down to 38° or 40° at night would split calyxes all to pieces and even affect the crop of buds forming to such an extent that it would reach over into the holidays. The day temperature should be between 60° and 70°, as nearly as you can have it.

Still another point to watch is the watering. Growing them cool the plants will not need the water that they would if grown warmer and at the same time will, I think, suffer quicker from a lack of moisture. If on benches it will pay to look them over almost daily and see that any dry spots are touched up so that the regular watering of the week leaves the bed nicely and evenly moistened. Avoid feeding until you begin regular firing, as the cool temperature at which you are growing them will give them all the growth they will need in order to produce satisfactory results later on.

All of this, of course, only applies to the man who does not have a supply of coal and is asked exorbitant prices for it. The man who has an abundance of coal at nominal figures can better afford to start his fires and let a little heat go out through the ventilators, rather than grow his plants cool and lose on the quantity of flowers produced. But outside of a few extra split calyxes I am not so sure that early firing will produce a better grade of flowers; there are too many carnations produced in this country that do not stand shipping and our high temperatures have something to do with it.

Through having some unfinished houses the latter part of August, I did not get my carnations housed as early as usual and they made so many buds in the field that we had to keep them cut back away beyond what is our usual method, consequently I will not be troubled with many

do it that I do not have them cut close every day, especially so early and late in the season.

In going over the houses when cutting flowers do not be afraid to cut out all weak-looking buds and throw them away, for you will by an intelligent following of this method of pruning make your holiday crop that much better and that much larger.

If you have any thrip in your houses, and I have not seen any houses the past few years that did not have some in them, it is a good time now to get them out of the way. Fumigating freely with tobacco, and using a small handful of either red pepper or insect powder in conjunction with each half bushel of stems, will rid the houses of thrips to such an extent that their depredations will not be noticed for the balance of the season. If they are bad it will be best to fumigate every alternate night for a month, as it is only by constantly keeping at it that you will catch them on the outside of the buds, where the smoke will get at them strong enough to kill. This will, of course, give you flowers perfumed with tobacco instead of cloves, but better now than later in the season. If

The American Institute Show.

The seventy-first fair of the American Institute of the City of New York was held at the Berkeley Lyceum September 23 to 25. From the point of exhibits, both quality and quantity, it was one of the best in recent years, the showing of dahlias being especially strong, the cactus type being noticeable for their variety and color.

The hall proved to be rather small for the numerous entries and exhibits were rather crowded, which goes to show that New York needs her own horticultural building, like some of her sister cities.

Among the plant exhibits Julius Roehrs showed an excellent and well balanced group of orchids, palms and foliage plants, the *Cattleya labiata* being particularly strong and well flowered.

Lager & Hurrell sent a very comprehensive collection of orchids, the following varieties being especially noticeable: *Cattleya Harrisoniae*, *Cattleya chryso-toxa*, *Zygopetalum Gautieri* and *Peristeria data*, the Holy Ghost orchid.

Siebrecht & Son displayed some specimen palms and foliage plants and some nice platyceriums.



FLOWER WAGON OF A DENVER DEPARTMENT STORE

W. A. Manda exhibited a very striking group of the golden anemone, a particularly bright and novel variety.

Ellwanger & Barry exhibited a very large collection of fruit, including apples, pears and grapes, clean, well-grown and of excellent quality, but the beauty of the display was destroyed by lack of space.

Geo. Burchett, of Montclair, N. J., showed some excellent seedling gladioli, Groff's and other hybrids.

W. P. Lothrop, of East Bridgewater, Mass., exhibited a collection of cut gladioli, including fifty varieties.

Frank Weinberg sent a collection of cacti and dwarfed shrubs.

In the class for best display of flowering and foliage plants covering fifty square feet, the collection shown by James Dowlen, gardener to H. L. Terrell, Seabright, N. J., and George Hale, gardener to E. D. Adams, also of Seabright, N. J., showed some excellent examples of the gardener's art, the color quality and arrangement being all that could be desired.

A very interesting exhibit was a long table of vegetables made very effective by arrangement, by the Manhattan State Hospital, Central Islip, L. I., Wm. Thompson, superintendent.

Apart from the above mentioned exhibits the classes for outdoor and indoor fruits, vegetables, nuts, cereals and roots were well filled and of high order of merit.

The collection of cucurbits, which included gourds, pumpkins, squashes and others, by Alex. Mair, of Oakdale, L. I., was a distinct attraction.

Rhode Island Horticultural Society.

The early autumn exhibition of the Rhode Island Horticultural Society was

held at Providence, September 18 to 20 and was one of the most successful on record, there being a profusion of exhibits in all departments, the showings of three dahlia growers being sufficient for a considerable exhibition in themselves. William H. Tarbox, of Compton, occupied one entire side of the hall with his dahlias and asters, the number of blooms of the former being no less than 3,800. H. F. Burt, of Taunton, had a display of the same character, including a large number of the newest, rarest and most remarkable of the named sorts. W. P. Lothrop, of East Bridgewater, was the third extensive exhibitor, his display embracing several of the latest importations from Europe. On the whole, few better showings of dahlias were ever made. The judges were James Hockey, Charles Forbes and Farquhar Macrae. The awards were as follows:

Best display of dahlias, all classes, H. F. Burt first, William P. Lothrop second. Best display of show dahlias, H. F. Burt first, W. H. Tarbox second. Best display of pompon dahlias, H. F. Burt first, W. H. Tarbox second. Best display of cactus dahlias, H. F. Burt first, W. P. Lothrop second. Best display of single dahlias, H. F. Burt first, Neil Ward second. Best display of pink, purple and white asters, not less than twenty-five each, W. H. Tarbox first, Mrs. Samuel W. Lewis second. Best display of pink, purple and white asters, not less than twelve each, W. H. Tarbox first, Mrs. E. Osborne second. Best display of asters, all classes, W. H. Tarbox first, Mrs. Samuel W. Lewis second.

The president of the Rhode Island Horticultural Society is Prof. W. Whitman Bailey, L. L. D., and the secretary is C. W. Smith. The exhibition committee is composed of Silas H. Manchester, chair-

man; Farquhar Macrae, N. D. Pierce, Fred. P. Hunt, William Hill and J. E. C. Farnham.

Three Leading Canadians.

JOHN H. DUNLOP.

It was in New York, January 7, 1855, that John H. Dunlop, now one of the leading florists not only of Canada but of America, first saw the light. He came of Irish parentage, and removed to Toronto with his people, at the age of seven. While yet a lad he spent two years in the book business and then went back to New York, where for some time he worked as carpenter. He returned and finally settled in Toronto in 1875, and leased a news stand and telegraph office from the Queens Hotel. Up to this time he knew nothing of floriculture but during the quiet afternoons, books and papers that could throw any light on the subject, and on rose growing in particular, were carefully studied. Becoming acquainted with the theoretical part, in 1880 he built his first greenhouse, a modest structure 6x12 feet. The following year it was doubled, the next year a house 8x50 was built, and the following year this gave place to a more modern structure 12x50 feet, what is known as a three-quarter-span house. All this time by hard work and perseverance he was becoming more competent, and as a demand for choice roses was increasing in the city, a large piece of ground was purchased on Lansdowne avenue near Bloor street, where one of the finest establishments in the Dominion stands to-day.

He was the first to force lily of the valley, about 1885, at this time considered quite a feat, and has continued growing this flower until now, when sufficient pips are placed in cold storage to give a supply all through the year. He was the first to adopt raised benches for forcing roses in winter. The system used up to this time was to plant on solid beds and leave the plants undisturbed for a number of years. This was all right at times, but there was no certainty of getting blooms in midwinter, when most desired, for they usually came on with a great crop after March. Knowing the advantage of having the supply at the right season, he adopted the raised bench, which is now generally used. He was also first to use buttered glass for glazing greenhouses and is still an ardent advocate of this system, so much so that his plant of over 200,000 feet was all glazed in this way.

In carnations he has always taken a lively interest, growing all the new varieties, as shown in the national convention of the carnation society, and he usually visits the establishments that are sending out new varieties, and most of them are found in his houses. The annual display of carnations at Toronto is due to Mr. Dunlop's initiative. At his present place there are eighteen houses devoted to roses, seven to carnations, two to violets, two to asparagus and four to propagating. This season eight other houses, 160 feet long were erected, and seven of the most modern houses for roses. They are 240 feet long, iron trussed roofs, with brick and tile benches.

Mr. Dunlop has been connected with the S. A. F. for a number of years, and was a member of the executive committee for three years. He is also a member of the American Carnation Society and was president of the Canadian Horticultural Society, and also its first secretary. He was president of the Toronto Gardeners'



PRIZE VASE OF GLADIOLI AT TORONTO INDUSTRIAL EXPOSITION.

(Exhibited by Wm. Remie, Toronto.)



JOHN H. DUNLOP, TORONTO, ONT.



JOSEPH BENNETT, MONTREAL, QUE.



H. H. GROFF, SIMCOE, ONT.

A TRIO OF LEADING MEN IN THE FLORICULTURAL AFFAIRS OF THE DOMINION OF CANADA.

and Florists' Association, and in fact it was in response to his call for a meeting that this association was formed. He takes a personal pride in keeping his establishments in the front rank, produces the best of stock and exhibits at all the shows.

H. H. GROFF.

H. H. Groff, who has attained a world wide reputation as a hybridizer of the gladiolus, was born at Simcoe, Ontario, Canada, forty-nine years ago, his father being of an old Pennsylvania Dutch family, and his mother's parents from Massachusetts. His inherent horticultural tastes came strong from both sides of the family, his mother having a long and successful record as an amateur, and his father, who was connected with the banking interests of his section from the early settlement of the country, always took pride in having one of the most beautiful homes in the Dominion.

Mr. Groff's interest in horticulture began in early childhood, with the improvement of wild flowers by cultivation, and continued during a long and successful amateur experience in fruit and flowers, both in the garden and under glass. He also had a long experience in fancy poultry, pigeons, rabbits, dogs, Jersey cattle and pedigreed horses for breeding purposes. In all these experiences his standard was high and in the latter interest his stock secured the highest awards at the state fairs of Iowa and Nebraska.

He occupied the position of assistant cashier in one of Canada's leading banks previous to the death of his father and afterward was engaged in banking in his own interest until four years ago, when his business was taken over by one of the largest chartered banks in the Dominion, who secured his services as cashier, which position he occupies to-day.

It is now nearly fifteen years since he commenced his work on the improvement of the gladiolus and, recognizing the principle that it is the business of science to secure results with the least possible outlay of work and time, as results are regarded as the standard by which a man's work is judged, he acquired with out delay all material obtainable from

every desirable source, even to following the botanical explorers into the wilds of Africa for new species.

Mr. Groff states that his experience in breeding all kinds of live stock has been of great service to him in his work on the gladiolus. His system is the production of specific types from every species, on the lines he desires to advance, these specific types to be used as the foundation of new strains, and also as re-vitalizers for the production of the many thousands of his now celebrated hybrids. The correctness of this system is evidenced by the satisfactory performance of these hybrids under changed conditions of soil and climate in all parts of the world.

JOSEPH BENNETT.

The retiring president of the Canadian Horticultural Society is Joseph Bennett, of Montreal, a typical Canadian gardener, one in whom the best traditions of the craft find exemplification. He is a native of Northwold, Norwalk, England, born October 5, 1858. When 14 years of age he began his horticultural career in the gardens of the rector, Rev. Norman, from whose place he advanced to Sprothoro Hall, near Doncaster, the seat of Sir Joseph Copley, where James Tindall was gardener. After three years at Sprothoro Mr. Bennett went to Wentworth House, the seat of Earl Fitzwilliam, where he put in another three years under John Young, going thence to Veitch's, that great finishing school for British gardeners. Leaving Veitch's Mr. Bennett went to Combe Abbey, Coventry, to delve under Wm. Miller, then in charge for the Earl of Craven. The late James Brydon was at Combe Abbey at the time and so was Fred. Palmer, now at Brookline, Mass. Mr. Bennett's next move was back to Veitch's for a post-graduate course, after which he was for a time at Streetham, under Wm. Howe, gardener to Sir H. Tate, the sugar king. Going thence to Wm. Cutbush & Son, at Highgate, he completed his British training and landed at Boston, January 17, 1883, a thoroughbred gardener, aged 25. The next day he went to work with Alex. Montgomery, at the Waban Rose Conservatories at Natick. Removing to Montreal in 1884, Mr. Bennett engaged

in business for himself about seven years ago. Since then he has "managed to make a living" for himself, according to his own modest description of the upbuilding of a prosperous establishment. He has a store in Montreal and a range of 25,000 feet of glass and five acres of land at Lachine, about eight miles outside the city.

Mr. Bennett has been one of the active members of the Canadian Horticultural Society since the day it was organized and the year during which he was at its head was one of its most prosperous.

Exhibition Management.

The indifference of the public toward the floral exhibitions and the financial embarrassments often resultant from lack of patronage presents a problem for which no universal solution can be offered, because of the special circumstances which, in every case, affect in greater or less degree the prospects of success. In one direction, however, there is abundant room for improvement in very many instances. It is well known to every observant flower show patron that in respect to general artistic effect as well as in the composition and arrangement of the individual decorative groups, seldom is there anything approaching the careful study for finished effect that is demanded daily of every retail florist doing high-class decorative work. The occasional group of surpassing beauty which is seen, is unequal to the task of lifting the show as a whole out of its low estate and only emphasizes by contrast the hideousness of its neighbors. Neat and harmonious accessories are as necessary to successful results in the exhibition hall as they are in my lady's parlor and it will not be disputed that the unpainted tubs, grocery boxes, untidy plant stakes and labels, odd jars and bottles and similar make-shifts so commonly in evidence must be banished absolutely from our flower shows before our attempts shall have reached the level of ordinary respectability or before we can reasonably expect a refined public to come and admire and pay for the privilege.

Careful consideration of these facts

suggests as a possible remedy for scanty public support the appointment of a superintendent of recognized taste, with full authority to squelch the soap box and similar abominations, including the man who would persist in bringing such truck to the exhibition hall, and then supplementing him with a good outside manager, well experienced in the mysteries of the box office business and the high art of advertising. While the qualifications for these important offices are not impossible under the hat of the successful plant or flower grower, yet that "thorn of experience which is worth a whole wilderness of warning" has taught us that the double accomplishment of good grower and good showman "truly is a rare bird in the land."

Early and Late Phloxes.

It may seem strange, but it is nevertheless an established fact, that some of the phloxes in two or more species are in flower during every month from April to November and all are extremely floriferous, the dwarf section as well as the taller, later bloomers. The earliest spring days see the various forms of *Phlox subulata* out, a dense carpet of color. Soon afterwards the bristly form, *P. setacea*, more compact and erect in growth, but equally dwarf, shows itself. The waxy white variety, with a faint lilac eye and tube, is *Nelsoni*, not what is usually sold under that name. The variety *Vivid* is the brightest possible lustrous pink with a dark carmine center or eye, but these are very little known here, though superior to varieties of *P. subulata*. *P. reptans*, with orbicular foliage, spreads its slender, creeping stems and branchlets closely over the ground and covers it effectually. It is in bloom about the same time. Its clusters are loose, showing each individual flower distinctly and the color is a pretty shade of purplish rose or red.

P. amena, brighter in color and some-

twelve inches high and, while most of the former mentioned are still in good shape, *P. Carolina* makes its appearance. The flowers are rosy pink with darker center, the foliage narrow, lance-shaped and the loosely-panicked stems are about twelve inches high.

This brings us well into June and after this we may depend on the suffruticosa class of phloxes to furnish flowers for the rest of the season. Many shades are represented here. The habit is dwarf; none of the varieties ever exceed twenty inches in height; most of them are dwarfer. The pyramidal panicles are large and last a long time in perfection. The habit is graceful, the stems slender, bending and wiry enough to maintain an erect position in wind and weather; no staking is ever required. The foliage is dark and glossy, in some varieties narrow, in others broadly lanceolate.

All varieties of this class will continue to flower until frost, provided we take the precaution to remove all the stems down to the ground or nearly so, as soon as the panicles have dropped the flowers. The root stock always shows new growth; by removing the old stems the sap is thrown into these shoots and the stronger ones develop fast into flowering size.

But of course we would not be without the so-called late flowering section, *P. decussata* or *P. paniculata* and hybrids. They are taller, some of the varieties reaching a height of four feet. The foliage is broader and pointed, the stems stout and rigid, the great, branched panicles very broad and compact and the colors represented are more varied, especially in the brighter shades than in the suffruticosa section. They are at their best at the beginning of September, though none of them will outlast the suffruticosas. The largest and fullest trusses are usually perfected on two-year-old plants. After that they gradually decrease in size of truss and flower, but in very rich ground, or where a heavy,

sparingly and it is natural, therefore, that the most productive seedbearer should be represented in the most varied shades.

It is a pity that as yet we have no shade of salmon or bright carmine pink, or anything approaching a crimson in the suffruticosa section, but we may get there in time. In my own opinion *P. suffruticosa*, as a plant in bed or garden border, or as a graceful cut flower for decorative purposes, is pastly superior to any of the other species, only we often miss the brighter shades, though the soft tints which are quite plentiful are often preferred. J. B. K.

WITH THE GROWERS.

GEORGE REINBERG, CHICAGO, ILL.

Although the past three or four years have seen some great advances in the production of cut flowers, few neighborhoods show a more remarkable development than that in the north of Chicago, a region which, years ago specked here and there with glass, is now one of the greatest flower producing sections of the country. Here, within a radius of a mile or two is more glass for cut flowers than the whole United States could show not much more than ten years ago. What Madison, N. J., is to the New York market, this neighborhood is to Chicago. Acre upon acre is roofed with glass and some of the best stock in the country is turned out here, for the location seems particularly adapted to rose and carnation growing. The one drawback is that the growth of the city is making much of the property too valuable for further acquisitions for greenhouse purposes.

Of all these dozens of fine ranges, and they are all worth a visit, the majority have grown from a nucleus originally devoted to forcing lettuce and cucumbers. George Reinberg is one of the oldest hands at the business but within a brief span his houses have been rebuilt and modernized and he has added largely to his area. He now has forty-seven houses, each 265 feet long, this season's addition consisting of ten of the Dietrich short-span houses. An exterior view of this range is shown in one of the accompanying illustrations; the other shows the Beauties in one of these houses, photographed seven weeks after planting.

This is a style of house that has attracted considerable attention of late and already there have been many visitors to inspect the range. All the houses are 265 feet long, nine of them fourteen feet four inches wide, the outside house fifteen feet nine inches. Each house has two benches five feet five inches wide and two walks twenty inches wide, except that the outside house has an extra walk. The houses are glazed with sixteen-inch glass and there is continuous ventilation on the south side of each ridge. It is but natural that a grower should consider his latest addition the best on the place, but Mr. Reinberg is particularly pleased that this section should show such a remarkable variation in summer temperature as compared with his old style, wide and high-peaked houses. When these photographs were taken at nine o'clock on an August morning the temperature in the new range was 9° lower than in the old-style houses alongside and Mr. Reinberg says that at 2 p. m. the difference in summer was frequently 12° and sometimes as much as 15°.

The new section was planted to Beauties in the last week of May and flowers were cut in seven weeks, the plants being

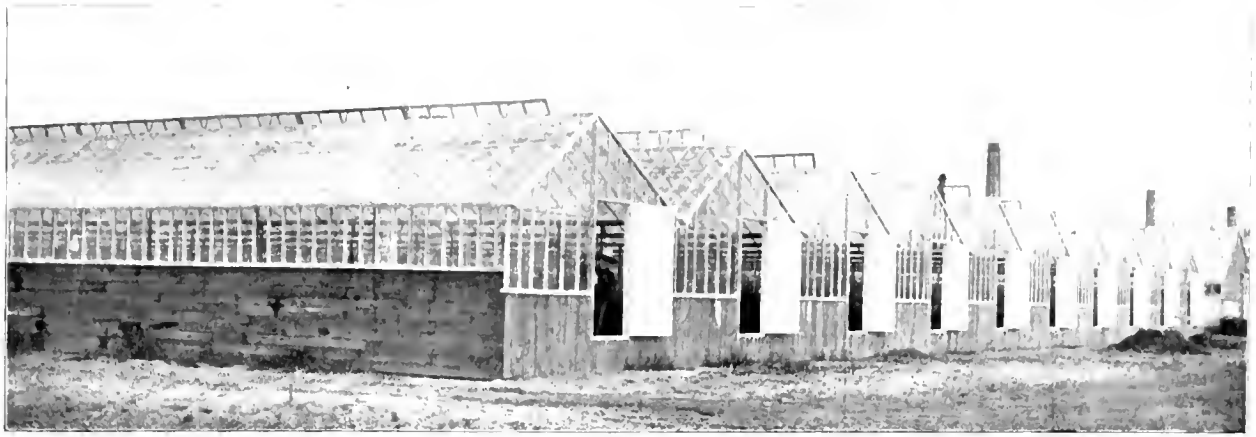


REINBERG'S AMERICAN BEAUTIES SEVEN WEEKS AFTER BENCHING.

what taller in growth, is only a few days later. It has lanceolate, pilose foliage and very dense, semi-erect growth. Then the lilac blue, large flowers of *P. divaricata* begin to show themselves in many-flowered, loose, erect spikes. It grows from eight to twelve inches high, according to soil and situation and is the only representative of this pretty and most unique color in phloxes. *P. ovata*, with rather broad and large oval foliage and panicked heads of soft pink flowers comes out shortly after. Its stems grow eight to

substantial top-dressing is repeatedly administered, the plants produce satisfactory results for years.

Ordinarily though, we should split the old clumps up after flowering them for three or four successive seasons. Varieties are most numerous in this section and new ones come out every year. *P. decussata* seeds freely and is easily raised from seed and, like a geranium, blooms the first year, if sown early in spring, while all other species of phloxes, including *P. suffruticosa*, bear seed but



A RANGE OF TEN SHORT-SPAN AMERICAN BEAUTY HOUSES BUILT THIS SEASON BY GEORGE REINBERG, CHICAGO.

strong and vigorous, from 4-inch pots. In all there are 32,000 Beauty plants on the place. The older houses are 25x265 and planted to roses and carnations. There are 22,000 Brides and Bridesmaids, 5,000 Golden Gate, 5,200 Meteor, 4,200 Liberty, 2,100 Perles and 1,100 of the new varieties, Ivory, Balduin (Helen Gould) and Mrs. Oliver Ames. The Balduin, over the identity of which the Florists' Club of Philadelphia had such a racket, is making a particularly fine growth. Like many other growers in the neighborhood Mr. Reinberg is carrying over a considerable number of his rose plants. The work of benching carnations was begun in the middle of August and the plants now look fine. It took 80,000 plants to stock the section given to them.

Incidentally Mr. Reinberg does a big business in the production of cuttings and plants, above those required for his own use. He annually sells great quantities of rose and carnation cuttings and rose plants and last fall sold over 100,000 field-grown carnation plants, but this year this latter item was considerably cut down by the loss of plants because of the continuous rains in June and July. The plants on low ground suffered considerably but those on higher ground came through nicely. In general throughout this whole neighborhood the plants were healthy but smaller than those benched in recent years.

The expense of running one of these great places is something which would have been considered beyond reason a decade ago. Last year Mr. Reinberg paid out for labor the sum of \$10,000. Coal cost him \$8,000. To keep the houses, heating apparatus and equipment in repair costs \$6,000 a year and incidentals aggregate \$8,000. The money to meet these bills comes in at 51 Wabash avenue, where O. W. Frese has charge of the store.

New Haven Horticultural Society.

The second annual exhibition of the New Haven County Horticultural Society will be held November 11 to 13, in the new Music Hall, New Haven, Conn. A schedule of prizes may be obtained from the secretary, Thos. Pettit, 316 Orange street. The majority of classes are open and fairly good prizes offered. This is anticipated to be the best horticultural exhibition ever held in Connecticut. The society has made a steady growth in membership and is this year receiving the support of the wealthier citizens, in

the way of special money prizes. It now remains with the craft to grow and show well, and I might also say, win and lose well. The judges, in whom the greatest confidence is placed, are Messrs. Patrick O'Mara, New York; F. L. Atkins, Rutherford, N. J., and Theodore Wirth, superintendent of parks, Hartford, Conn.

JOHN DOUGHTY.

About Sports.

It is a matter of common knowledge among breeders, not only of plants but of animals, that there are really two types of variation, although, as is always the case with nature, instances occur which render it impossible to draw a hard and fast line. The one type of variability consists of those minor divergences which give individuality, and which, especially in plants, often require a very sharp eye to discriminate, or perhaps baffle the observer entirely.

The other type embraces individuals which have quite suddenly assumed more or less distinct characters, and sometimes extremely abnormal ones. As a rule, too, these suddenly acquired peculiarities affect the reproductive system also, with the result that their progeny largely partake of the same new character as the parents, assuming in this way a specific character between which and the species proper it seems impossible to draw a line.

A species recognized as such is merely a branch of a genus in which certain distinctive characters have become fixed, while the fundamental generic plan is adhered to. These distinctive specific characters are constant in the vast majority of cases, though modified in minor ways by variations of the first category, which may not be merely that of external form, but may also be constitutional, so that of two plants externally precisely similar in habits and appearance, one may be hardier than the other, or better able to withstand drought or insect or fungoid attack. In this way it may possess an advantage worth cultivating by further selection, and which undoubtedly plays and has played a considerable role in evolutionary history.

The selective cultivator, other than the hybridizer, undoubtedly owes the bulk of his successes to variations of the second category, that is, the marked and sudden kind which may arise either as seminal or bud sports, that is, may show their new characters as seedlings from normal progenitors, or from forms which have already been modified by selection, or

buds may form on plants of either category, which as they develop present the novel features.

Bud sports, however, are less wide in range of departure from the parental form than seminal sports. Thus in roses and chrysanthemums the new varieties arising from bud sports are usually variants in color, retaining the other parental characters intact, but here again there is no hard and fast rule, as some rampant climbing roses were bud sports from bush forms.

As regards the cause of these sudden sports we are absolutely in the dark, and although naturally they are more apt to be remarked and utilized in plants under culture, it is a very open question indeed whether culture acts as an inducement, since plants in a perfectly wild state are well known to sport as widely and as eccentrically, and when made the subject of specially careful research, as in the case of ferns, are proved to do so on extremely liberal lines, while departing further from the normal than any have done under culture.

Naturally the selective cultivator finds in these abnormalities, not merely splendid material in many cases which otherwise would have required generations of culture to arrive at, but very often characters are presented of so original a type that his ideas are revolutionized, while, thanks to the reproductive power aforesaid, he finds ready to his hand an easy mode of propagation, plus an increased probability of further variation by which he can profit, and a possibility of introducing the new features into allied species by hybridizing.

To the biologist these sudden sports are of supreme interest, representing, as they do, absolute examples of that "special creation" which the science of evolution disclaims, but which is here strongly put beyond all dispute whatever. Generation after generation has passed and the offspring have been practically identical, the fundamental building cell has been faithful to tradition and reproduced its parental type to all intents and purposes thousands and thousands of times exactly; then suddenly it becomes inspired with a new idea (there is no other way of putting the fact), and it starts constructing on a different plan, plays a fresh tune, as it were, in the great harmony of nature, and in due time the "sport" is established. In point of fact we have here the introduction of a new species, subject only to the proviso that, left alone in the struggle for existence, it can not only maintain its individual existence, but also

extend it, retaining its integrity of type and holding its own among its near relatives.

Variations in these marked lines appear to be of the indiscriminate type; no evidence has been put forward indicating that they form a sympathetic response to environmental stimuli, and are therefore better fitted to their surroundings than their unresponsive neighbors and relatives. Hence, doubtless, the large majority belong to the "unfit," and eventually fail; it would, however, be strange indeed were there no exceptions, and the belief is becoming more and more established that these sports have played a material part in the formation of species in the past, and are still performing a like role in the present.—*Chas. T. Drury, in the Garden.*

Philadelphia.

TRADE SHOWS CONSIDERABLE IMPROVEMENT.—ALL GOOD STOCK TAKEN AT FAIR PRICES.—DAHLIAS SELL WELL.—BEAUTIES WANTED.—A SWINDLER.

Business is improving considerably, there being a constant demand for all good stock, even dahlias selling out clean. Peacock, of Ateo, N. J., seems to have an unlimited quantity of these fall flowers. A whole express wagon load at a time is deposited with S. S. Penock, who says he finds a good local as well as out of town demand. Prices range from \$2 to \$4 per hundred. Peacock's new Twentieth Century dahlia is a very large single which brings top price. It is a rich wine color on white, irregularly blotched or shaded. Penock Brothers have been making a dahlia show in their window this and last week and a large basket of this variety attracted much attention. Prices are getting a move on, carnations selling as high as \$2, this being obtained for some fine Hills. Good Crockers bring \$1.50 and this is top for most of the stock now in. Beauties, particularly the poet's variety, the "long fellows," are scarce and are eagerly grabbed up at from \$1.75 to \$2.50 per dozen. This, in view of the increase in the number planted, shows a healthy condition and speaks well for the outlook. The quality of the stock is good but a trifle of mildew is showing, as well as some black spot. A few single violets are coming in and show a great improvement over those of last week.

Charles Liver, a young man whom no one seems to know, tried to purchase flowers from Fred. Ehret sometime ago and have them charged to Schuck Bros., of Eighth and York streets, whom he said had sent him for them. He was held until word was received that the Messrs. Schuck declared him an imposter, when he was arrested. Last week his case came up in court and his sentence would have been light but for misrepresentations to the judge as to an aged father and mother and wife and children, whose sole support he said he was. This was proved to be out of the whole cloth and two years was the sentence imposed.

The plantsmen are busy shipping to their out of town customers, who are stocking up while they can receive their goods by freight without danger from frost.

Edward Reid has been spending a few days in Norfolk, Virginia. His basement addition is now about finished and will give him much additional space.

George Faulkner is about to open a store on Fifteenth street above Walnut. Mr. Faulkner is active and energetic and should succeed. K.

Chicago.

INCREASED SUPPLIES FIND A DULL MARKET.—DEMAND FOR PRESIDENTIAL DECORATIONS RECEIVES A SUDDEN CHECK.—GOOD BEAUTIES ARE PLENTIFUL.—MANY SHORT-STEMMED ROSES.—JURGENS TELLS OF SLOW SALE FOR FINE VALLEY.—THE CARNATION WHICH ENCHANTS.—PERSONAL NOTES.

The market has been dull this week. Supplies have multiplied while orders have been divided, and most items have been slow sale for the past eight days. President Roosevelt's western trip made business for some of the large growers, for there were heavy orders from Cincinnati, Detroit and Indianapolis. Milwaukee had booked some big orders, but mostly countermanded at the very last minute, when it was learned that the presidential tour had been abandoned. Mr. Roosevelt was to have been in Chicago for the last three days of next week and it was expected that his presence would considerably accelerate the local call for good stock. The demand for Beauties is good, but the supply is very much larger than a couple of weeks ago and there is no difficulty in filling any kind of an order, with a surplus in the middle of the week. The stock continues to be first-class. Tea roses are much more plentiful this week and only that portion of the stock which is of high grade finds anything like a ready market. There are large quantities of short-stemmed stock which are moved with great difficulty. This includes both Bride, Bridesmaid and Golden Gate. There are now some very fine blooms of Ivory on 12-inch stems which are selling first rate, and N. J. Wiator reports sales of extra select La France at fine prices. Mme. Chatenay continues in demand and Peter Reinberg is finding a good sale for Sunrise, into which he has gone very heavily this year. Meteor is improving in quality but not many Liberty are in evidence just now. There are ample supplies of all carnations except white, the deterioration of asters throwing the principal demand for funeral flowers on the white carnations. Violets are now in almost daily receipt and chrysanthemums are showing in many of the retailers' windows. Valley is plentiful and there is enough smilax and asparagus to supply all requirements.

August Jurgens says that the forcing of lily of the valley is not all that it is "cracked up" to be, for he finds that the big orders come just when he hasn't the stock, and when he has it, the big requirements are not at hand. He is forcing about 1,500 pips a day and is producing valley of a quality never excelled anywhere. What he calls select stock has from twelve to eighteen bells to a spike, and its fragrance is remarkable, but the retailers do not seem possessed of any great anxiety to procure it. H. N. Bruns is forcing about 2,500 pips a day at present and says that he has succeeded in keeping in good touch with the market thus far.

The J. D. Thompson Carnation Company has had a vase of fine blooms of Enchantress on exhibition at McKellar & Winterson's this week. They have a house of 6,000 plants of this variety just coming into bloom, and those who have been to Joliet in the last few days say it is a sight. Mr. Thompson recently received a box of S. J. Reuter's new white carnation, Lillian Pond, three-inch blooms on 18-inch stems, and they kept ten days after the journey from Westerly, Rhode Island.

The George Wittbold Company has the decoration for the opening of Marshall Field & Company's wonderful new retail store next week. The firm is reported to be expending \$20,000 on decorations for the opening, and the floral part of it will require close to \$2,500. The Wittbolds also have a big order for a decoration at Stevens' in the same week.

A. L. Randall will be at home next week from his summer at St. Joseph. He and his family have not only had a fine summer outing, but have gathered a big peach crop as well.

Last Saturday night there was a gathering of florists at Highland Park to assist Mr. and Mrs. Fritz Bahr in celebrating their third wedding anniversary.

The horse show this year comes two weeks before the flower show. Last year the two were in the same week and each one helped the other.

The variable weather has given the rose growers the inevitable mildew, and it is much worse than usual this time.

W. N. Rudd's gait has lost its sprightliness because of the rheumatism with which he is suffering.

E. C. Amling has been at New Castle this week, to see how the stock is coming on.

Alex. Newett, of Deamud's has a new son at his home.

Visitors: Paul Berkowitz, Philadelphia; S. W. Pike, St. Charles, Ill.; A. J. Clarke and Miss Clarke, Portland, Ore.; Mr. Irvine, Bay City, Mich.

New York.

TRADE DEAD AND GROWERS BETRAY SIGNS OF UNEASINESS.—ROSES OF LOW GRADE AND SELLING CHEAP.—EARLY CHRYSANTHEMUMS MEET UNAPPRECIATIVE RECEPTION.—PLENTY OF ORCHIDS.—PLANT BREEDING CONFERENCE.—VARIOUS LOCAL NOTES.

Cut flower trade in the wholesale section seems to be almost at a standstill. The conditions are presumably the commencement of the usual fall situation which recurs every year about this time, and the warm, damp weather of the past week has helped to hasten the coming of the critical period. This is the season when the peripatetic commission man, of whom there are several in town, has his innings with the susceptible grower in the rural districts and has little difficulty in creating a suspicion that the returns of sales indicate he is not being fairly treated by the man who has helped him struggle through the summer. Chrysanthemums have begun to arrive in quantity, the white variety Mme. Gasteller being especially abundant and bringing about \$6 per hundred against \$12 to \$15 per hundred at the opening of the season last year. The heavy supply of fine asters in the market is undoubtedly responsible for the chrysanthemum depression. A first-class disbudded white aster of the modern type is infinitely superior to the small early white chrysanthemum. As to roses, Beauty is increasing rapidly in numbers every day and sales in quantity are made at reduced values. Other varieties are also being received in heavier supply, quality being low on the average, mildew being generally prevalent. Bride and Bridesmaid roses in thousand lots are sold as low as \$3.50 to \$5 per thousand, as received from growers without rehandling. Carnations of the fancy varieties are now showing up, \$2 a hundred being average price. Violets are as recently reported, in quantity sufficient for all calls, at 50 cents a hundred. Cattleya labiata is in

evidence and rapidly increasing. Herrington, Roehrs and Lager & Hurrell are all sending in regular shipments. The price has fallen to 35 cents a flower but it will be difficult to maintain this value long, as the cut gets heavier. Lily of the valley is in full supply at present.

A great and constantly increasing interest is being manifested in the approaching Madison Square Garden exhibition. The New York Florists' Club and National Sculpture Society are working together with much enthusiasm and unquestionably the show will make a great sensation here. It will last from October 30 to November 6.

President F. R. Newbold and ex-President Benjamin Dorrance were in New York last week and discussed rosesociety matters with Secretary Barron. It was decided to call a meeting of the executive committee to be held in Philadelphia, on the second day of the Pennsylvania society's fall show. This will be November 12.

The International Conference on Plant Breeding and Hybridization will open at the Berkeley Lyceum Building, 19 to 21 W. Forty-fourth street, New York, at 10 a. m., September 30. Many distinguished scientists are expected to be present and there will be an interesting exhibit of hybrid plants and their products.

Chas. Arick, who has been in the employ of Wadley & Smythe for many years, died on Saturday, September 20, of pneumonia, after a three weeks' illness. He was born in New York, aged 42 years. He leaves a widow and one child.

Mrs. Arthur Herrington arrived from England last Saturday on the St. Paul.

Alfred Dimmock is busily engaged in showing F. Sander, Jr., about the city.

Visitor: Patrick Barry, Rochester, N. Y.

Boston.

BUSINESS NOT HEAVY AND WARMTH ACCELERATES PRODUCTION.—AMPLE ROOM IN HORTICULTURAL HALL.—LAST EXHIBITION NOT WELL ARRANGED.—SOCIETY ELECTS OFFICERS NEXT WEEK.—OBJECTION TO USE OF PARK FOR GOVERNMENT PURPOSES.—AUCTIONS ON.—PERSONAL AND TRADE DOINGS.

The uniting of the annual plant and flower show and the annual fruit and vegetable show on one date, together with the attenuated method practiced in the exhibiting of fruits and the lack of adequate supervision in the classifying and general arrangement of the entries in the exhibition at Horticultural Hall last week, gave color to the idea, industriously diffused by a certain class of obsequious reporters, that the halls were of insufficient size to properly accommodate the exhibits. With the space wisely utilized, however, there would have been abundant room for all.

The announcement of the purpose of the United States government to appropriate a portion of Castle Island in Boston Harbor for use as a lighthouse depot has brought out a vigorous popular protest. This island is one of the most desirable spots in the great metropolitan park system and the taking away, as proposed, of a tract which affords the most attractive outlook seaward would mean a serious loss to the public which, it is to be hoped, may be averted by the prompt action already started by the mayor, park commissioners and others.

Warm, damp weather has served to increase the cut of roses materially and has not improved the quality. Beauties, especially, are in augmented supply and, in over-ripe condition, are bringing very

low figures, injuring market prospects for the present. Other roses show much mildew from average growers. There is a generally adequate supply of carnations but the better qualities are scarce. The aster crop is going off rapidly.

The annual election of officers in the Massachusetts Horticultural Society will take place at Horticultural Hall on Saturday, October 4. The "compromise" committee will, it is expected, make its report on new method of government at that time.

Probably the most comprehensive exhibit of perennial asters ever shown here was that prepared for the late horticultural exhibition by Carl Blomberg, of North Easton. The collection comprised fifty species and varieties, all carefully labeled.

McCarthy's auction sales are on in earnest, and a large quantity of material is disposed of every Tuesday and Friday, but prices paid seem very low so far. Good carnations of best varieties have been going as low as 2 cents and 3 cents a plant.

Mrs. W. A. Boek has decided to carry on the business of her husband, the late W. A. Boek, at North Cambridge. Mrs. Boek has a host of well-wishers who have no doubt of her success in the venture.

Visitors: Mr. and Mrs. W. F. Dreer, Philadelphia; A. M. Rennie, Providence, R. I.; M. Reukauf, Philadelphia.

Cleveland.

MARKET OVERBURDENED WITH STOCK.—PRICES BADLY DEMORALIZED.—MUCH LOW GRADE STOCK HARD TO MOVE.—CLUB ELECTS OFFICERS UNANIMOUSLY.—VARIOUS NOTES.

The business for the past couple of weeks has been very satisfactory for the time of the year. Society has returned, to a certain extent, and a round of social functions may be looked forward to. The warm weather for the past few days has had a demoralizing effect upon the wholesale business. Such quantities of flowers of all kinds arriving made it impossible to handle them to advantage, consequently prices were cut unmercifully, extra fine grades of carnations only bringing \$1.50 per hundred, the ruling price being \$1. Teas bring \$2 to \$6 per hundred, only the fancy grades bringing the latter figure. Beauties still hold up well at from \$10 to \$25 per hundred. Valley is not over-plentiful and brings from \$4 to \$5. The J. M. Gasser Company is sending in the first chrysanthemums in the market. The variety is Montmort, and the flowers retail at \$3 per dozen. Marion Henderson will follow in a few days. The aster crop is about over. Carnations were never more plentiful or quality better at this season of the year.

The club held its regular meeting on Monday evening and the officers for the ensuing year were unanimously elected, as follows: President, Gordon Gray; first vice-president, F. C. Bartels; second vice-president, A. L. Brown; secretary, Isaac Kennedy; treasurer, H. A. Hart. The retiring president, Wm. Brinker, made a neat little speech and complimented the club upon its advancement within the past couple of years and expressed the hope that the same pace will be kept up in the future. Two new members were taken in, Wm. Warnke and A. C. Wasson. The alleys have been platted down and varnished, making them as good as the best in the city. Some good scores are looked for in the future.

Mr. Smith, of Smith & Fetters, was taken to a hospital the other day, threatened with an attack of typhoid fever. From last account he is progressing favorably towards recovery.

Jno. Mollenkopf has the knack of growing the best G. H. Crane carnations coming into market. This year his stock is extra fine. Crancisa "hard doer" around Cleveland.

Casper Aul's chrysanthemums are extra fine, especially Polly Rose. This is one of Mr. Aul's specialties, growing good chrysanthemums.

Mr. Kice, of Oberlin, was a visitor in town this week. LCHO.

Kansas City, Mo.

GROWERS AND RETAILERS PREPARED FOR A BUSY SEASON.—GREENHOUSES MODERNIZED AND STORES IN FINE SHAPE.—REMOVALS AND VARIOUS NOTES.

Trade with the down-town florists has been very satisfactory this month, demand for first-class stock far exceeding local supply and prices better than last season at this time. On the anniversary of McKinley's death there was a heavy demand for pink carnations, and but few of our florists anticipated the rush. Those who were prepared sold out clean and at good prices.

W. L. Rock has entirely remodeled his store at 1116 Walnut street, added a long needed conservatory in the rear, a new office and an addition for a ware-room. A large full glass refrigerator, capacity of from 5,000 to 10,000 flowers has been put in. The entire store is done in white enamel and trimmings of gold and green. He can lay claim to one of the best equipped flower stores in the country.

J. H. Vesey, a formerly of Ft. Wayne, who leased the old Baker Brothers houses, at the corner of Denver and Harris streets, has turned these houses inside out and has now as fine a lot of stock as is grown hereabouts. He is a hustler, and Kansas City could support a few more just his build.

The Rock-Heite Company has added one house for ferns this season. Their place at Sixty-third and Troost avenue now covers 25,000 square feet and every inch is utilized. Carnations are principally grown here and some good results are looked for.

Edward Humfeld, formerly of the Humfeld Floral Company, has opened an up-to-date place at Seventh street and Paseo boulevard. W. H. Humfeld continues at the old stand.

A considerable change has been made in Kellogg's establishment, brought about by the wide awake young man from St. Louis, Mr. Weber, who now has charge.

Interest is increasing in our coming All-American flower show. From all indications it will be a "buster." Premium list will be out next week.

Miss Jennie Murray has removed from 711 Walnut street to a more central location at 1029 Main street.

W. J. Barnes, Thirty-eighth and Euclid streets, has remodeled his entire plant. W.

COLORADO SPRINGS, COL.—Stephen Clark is shortly to add to his glass area for vegetable growing. He is both nurseryman, florist and vegetable grower.

VAN WERT, O.—C. W. McConahy has just completed two new houses, one planted to roses, the other to carnations. He has also installed a new Furman sectional boiler. Business is good.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00. Subscriptions accepted only from those in the trade.

Advertisements on all except cover pages, 10 Cents a Line, Azalea, \$1.00 per inch. Cash with Order.

No Special Position Guaranteed.

Discounts are allowed, only on consecutive insertions, as follows—6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

Cover space sold only on yearly contract at \$1.00 per inch, net, in the case of the two front pages, regular discounts applying only to the back pages.

The Advertising Department of the AMERICAN FLORIST is for florists, seedsmen and nurserymen and dealers in wares pertaining to those lines only.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday. Address

AMERICAN FLORIST CO., Chicago.

THERE is a brisk market for small stock for ferneries.

DENVER, Colorado, reports a snowfall of three inches September 21.

WHITE CLOUD is one of the short items of field-grown carnation plants.

WILD SMILAX will be used this season far more extensively than heretofore. Decorators are just beginning to appreciate its usefulness.

THE mailing label on your paper shows when your subscription expires; when you send your renewal note that the date changes within two weeks; it will serve as your receipt.

Piping and Heater.

ED. AM. FLORIST:—I have two greenhouses for growing vegetables, both running east and west, a building 10x10 between. The one running west is 12x36, the other 11x60, both banked up to caves with earth and well protected from north winds. The 60-foot house has one solid bench on south. Will two 2-inch flow pipes and six 1-inch returns heat both houses up to 45° to 50° during zero weather? Will the No. 0 Doric boiler be large enough for both? P. R. W.

For hot water six 1½-inch returns will be needed in addition to the flows in each house. With steam only one flow in addition to the six 1-inch returns will be needed. The boiler should be rated for about 600 square feet of hot water radiation or 350 feet for steam.

L. R. TAFT.

Lifting Power.

ED. AM. FLORIST:—Where one has to depend on a well for water, what is the best power for lifting and best method of warming the water for winter use?

M. E. J.

While conditions might make some other power desirable, the gasoline engine will doubtless be perfectly satisfactory and quite economical. If the water supply is ample it will be possible to get along without an elevated tank, the system being worked under direct pressure. One of the simplest methods of heating the water is to run the water pipe for twenty-five to fifty feet, the distance varying with the temperature desired, through a 3-inch pipe for 1-inch water pipe or 2½-inch for ¾-inch pipe, and connecting this jacket with a steam pipe at one end and running a drip pipe to one of the returns. L. R. TAFT.

Indispensable.

ED. AM. FLORIST:—Enclosed is \$1 to renew our subscription to your valuable paper. It is indispensable, especially to the country florist. We don't want to miss a copy.

LeRoy, Ill.

L. A. RIKE & SON.

Society of American Florists.

DEPARTMENT OF PLANT REGISTRATION.

The Conard & Jones Company, West Grove, Pa., registers new rose Beauty of Rosemawr (China) hardy, everblooming; flowers large, imbricated, color carmine rose with white markings.

Henry Eichholz, Waynesboro, Pa., registers the following zonal geraniums: Double Dryden; James S. Wilson, double aureole, bright rose, white center; Little Red Riding Hood, double dwarf, dark rose; Governor Stone, single, crimson rose, white center; Cleopatra, single, clear salmon, round flower; Goliath, single, magenta, yellow blotches on base of petals. Wm. J. STEWART, Sec'y.

Greenhouse Building.

Detroit, Mich.—M. DeBeul, two houses 20x100, one 10x80.

Washington, Ia.—Elmer Keck, house 55x88.

Columbus, O.—Livingston Seed Company, three houses.

Seattle, Wash.—C. N. Sandahl, two carnation houses, one plant house.

Newport, R. I.—Carl Jurgens, three Beauty houses 200 feet long.

Scarborough, N. Y.—F. R. Pierson Company, house 54x300.

York Corners, Me.—W. G. Moulton & Son, house 60 feet long.

Greenwood, Mass.—R. L. Pitman, carnation house 21x130.

Plainville, Mass.—F. A. Sandland, one house.

Findlay, O.—Karg & Barnd, house 180 feet long.

E. Braintree, Mass.—John Streiford, one house.

Summit, N. J.—Lager & Hurrell, one orchid house.

Floriculture at Honolulu.

H. J. Rhodes, of Honolulu, H. I., who was in the United States last year and made many friends in the trade, writes as follows, under date of September 8:

"I fully intended to go with you to Asheville, but circumstances ordered it otherwise. Things are moving along here. Some complain of hard times, but they don't know the meaning of the word. Of course sugar is low, but they have been accustomed to such enormous profits that fifteen or twenty per cent profit is very small in their eyes, and sugar is king here. What do you think of getting from twelve to fifteen tons of sugar from one acre of ground? One plantation here gets that from some of its land, and still they cry hard times. Some people are very hard to please. I am raising quite a lot of roses and carnations for the market here. Good flowers sell well. The trouble is that the thoroughbred carnation will not do well until the second or third generation. The Marquis, Melba and Lawson do well in the open. Flora Hill and White Cloud, for white, and Empress, for red, also do well. There are large quantities of common pinks grown by the native flower-women and are sold on the street. You remember the view published in the AMERICAN FLORIST last year. I cut my first blooms of Prosperity to-day and they are fine.

Ethel Crocker does well. What can I do to get American Beauty to grow well here? They just do nothing. They won't grow. Every shoot an inch long wants to bloom. I have disbudded constantly and still get no good wood."

For Steam Heat.

ED. AM. FLORIST:—We are building two houses 24x300, attached, and wish to heat from north end by steam. We are about to place our order for pipe and are not sure about the size of flow pipes. Will two 2-inch mains take care of eight 1¼-inch returns? How large an opening should we have on a seventy horsepower boiler? Is it better to have a dome on a boiler of this size? How many feet of grate surface are needed?

DAVIS.

The size of the supply flow pipes should vary somewhat with their length. If a close connection is made a 2-inch pipe will answer, but a 2½-inch will be better, especially if the connection is at a considerable distance from the main. If the boiler is intended to supply only the two houses good results can be secured with a 4-inch main, but a 5-inch main would be needed if the boiler is to be worked to its full capacity with low pressure. A dome will not be needed. A grate with fifteen square feet of surface will suffice for the two houses but this should be increased to twenty-five square feet for the full capacity of the boiler.

L. R. TAFT.

Coming Exhibitions.

[Secretaries are requested to supply any omissions from this list.]

BOSTON, MASS., November 6-9, 1902.—Chrysanthemum show Massachusetts Horticultural Society. W. P. Rich, Sec'y, Horticultural Hall, 360 Massachusetts avenue.

CHICAGO, ILL., November 11-15, 1902.—First annual exhibition Chrysanthemum Society of America and twelfth annual exhibition Horticultural Society of Chicago, to be held jointly. E. A. Kanst, Assistant Secretary, 5700 Cottage Grove avenue, Chicago.

KANSAS CITY, MO., November 3-8, 1902.—Flower show, Convention Hall Directors, Kansas City, Mo.

LENOX, MASS., October 23, 1902.—Fall exhibition Lenox Horticultural Society. F. Herremans, Sec'y.

LOUISVILLE, KY., November 12-15, 1902.—Chrysanthemum exhibition Business Women's League. H. Nauz, superintendent, Louisville, Ky.

MADISON, N. J., November 6-7, 1902.—Seventh annual flower show Morris County Gardeners' and Florists' Society. C. H. Atkins, Sec'y, Madison, N. J.

MARSHALL, TEX., November 13-14, 1902.—Annual flower show East Texas Flower Association. W. L. Martin, Sec'y, Marshall, Tex.

NEW HAVEN, CONN., November 11-13, 1902.—Annual flower show New Haven Horticultural Society. Thomas Pettit, Sec'y, 316 Orange street.

NEW YORK, N. Y., October 30-November 6, 1902.—Annual exhibition New York Florists' Club. John Young, Sec'y, 51 W. Twenty-eighth street.

PHILADELPHIA, PA., November 11-15, 1902.—Annual autumn exhibition Pennsylvania Horticultural Society. David Rust, Sec'y, Horticultural Hall, Broad street below Locust, Philadelphia.

PROVIDENCE, R. I., November 13-14, 1902.—Chrysanthemum exhibition Rhode Island Horticultural Society. C. W. Smith, Secretary, 27-29 Exchange street, Providence.

ST. PAUL, MINN., November 3-5, 1902.—Chrysanthemum and orchid exhibition Ladies Auxiliary of the Northwestern Manufacturers' Association. Mrs. A. P. Moss, Sec'y.

TARRYTOWN, N. Y., November 11-13, 1902.—Fourth annual exhibition Tarrytown Horticultural Society. Edw. W. Neubrand, Sec'y, Tarrytown, N. Y.

Chrysanthemum Society of America.

President Herrington has announced committees to examine chrysanthemum seedlings and sports on dates as follows: October 4, 11, 18 and 25, November 1, 8, 15, 22 and 29, 1902.

Boston, Mass.—E. A. Wood, chairman, care Boston Flower Market, No. 1 Park street; James Wheeler, William Nicholson.

New York, N. Y.—E. Dailedouze, chairman, care New York Cut Flower Company, Twenty-sixth street and Sixth

avenue; James W. Withers, William H. Duckham.

Philadelphia, Pa.—A. B. Cartledge, chairman, 1514 Chestnut street; Wm. K. Harris, John Westcott.

Chicago, Ill.—James S. Wilson, chairman, care J. B. Deamund, 51 Wabash avenue; Geo. Stollery, E. Wienhoeber.

Cincinnati, O.—Albert Sunderbruch, chairman, care Cincinnati Cut Flower Company, 437 and 439 Main street; James B. Allan, E. G. Gillett.

Exhibits to receive attention from the committees must in all cases be prepaid to destination, and the entry fee of \$2 should be forwarded to the secretary not later than Tuesday of the week preceding examination.

Anyone having a variety in season before or after dates fixed, can have the same passed upon by specially notifying the chairmen of committees.

The following is the scale of points for the judging of the several classes of exhibits by the Chrysanthemum Society of America:

Scale A.—Scale of points for bush plants and standards, single specimen or any number up to six, in an exhibition where the class under consideration does not form the chief feature in the exhibition hall.

Equality of size and form of plant	40
Excellence of bloom	35
Foliage	25
	100

Scale B.—Scale of points for bush plants; exhibits of more than six or for any number of specimen plants in an exhibition where the class under consideration forms the chief feature in the exhibition hall.

Excellence of bloom	40
Equality of size and form of plants	35
Foliage	25
	100

Scale C.—Scale of points for plants grown to single stem and one bloom. A height of not over three feet is recommended for plants in this class and pots not over six inches in diameter.

Excellence of bloom	40
Compact and sturdy growth	35
Foliage	25
	100

Scale D.—Scale of points on specimen blooms or commercial purposes.

Color	25
Form	25
Fullness	15
Size	15
Stem and foliage	10
Substance	10
	100

Scale E.—Scale of points on specimen blooms for exhibition purposes.

Distinctiveness	15
Color	15
Form	15
Size	15
Stem	10
Foliage	10
Fullness	10
	100

EDWIN LONSDALE, Secretary, Wyndmoor, Chestnut Hill, Pa.

PONTIAC, ILL.—W. J. Miller has nearly completed his new range. He has benched 4,000 of the new carnations from Dorner.

FLORENCE, COLO.—L. Templin has been using a night blooming cereus as a means of attracting many visitors to his greenhouses.

MADISON, N. J.—The seventh annual flower show of the Morris County Gardeners' and Florists' Society will be held in the Assembly Rooms on November 6 and 7. An unusual interest is displayed and some very fine entries are assured.

SPRINGFIELD, O.—The Springfield Floral Company, successor to the J. A. Doyle Company, has a large iron frame house nearing completion. The catalogue output was increased 5,000 this fall and the edition of the spring catalogue will be increased 25,000.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant advs. not admitted under this head. Every paid subscriber to THE AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By experienced grower to take charge; roses preferred. References. Address: L. F., care American Florist.

SITUATION WANTED—By good all-around man, as grower of cut flowers and bedding plants; married, age 34; Chicago or vicinity preferred. C. C., care American Florist.

SITUATION WANTED—As night fireman with florist, vicinity of Cincinnati or southern Illinois; American, age 25, sober and steady. J. L. C., care Gould, 198 W. Federal St., Youngstown, Ohio.

SITUATION WANTED—By foreman, 17 years' experience, capable of taking charge of large up-to-date place, with a record of growing prize winning stock. Best of references. Address: B. G., care American Florist.

SITUATION WANTED—As working foreman, pot plants a specialty; 18 years in the business, age 35, German; now employed. Wages \$60 to \$75 a month. Address: J. W., care American Florist.

SITUATION WANTED—In the vicinity of N. Y. city, by an all-around grower. Would consider a proposition to work on shares. Married man; good references. X. Y. Z., care American Florist.

SITUATION WANTED—By experienced gardener and florist; German, married; last four years with Mr. W. C. Egan, Egandale, Highland Park, Ill. State wages. Address: P. W., Box 342, Highland Park, Ill.

SITUATION WANTED—By first-class all-around florist, 18 years' experience; age 32, single. Specialty palms, ferns, and pot plants in general. Able to take charge. Address: L., care Schiepan, 3455 State St., Chicago.

SITUATION WANTED—A young lady anxious to learn the florist business; fair stenographer and Remington operator; would like a position with a wholesale or large retail florist of Chicago. Willing to start at low salary. Address: H. A., care American Florist.

SITUATION WANTED—By a practical florist, age 28, German, good grower. Would like a position as first-class carnation and pot plant grower. Have references as a sober, honest and faithful worker. Please state wages. Address: COMPETENT, care American Florist.

SITUATION WANTED—By Nov. 10th, as head gardener on private place or public institution in California, Oregon or Washington, by young man, aged 25; a 1 grower of roses, chrysanthemums, carnations and general stock, with knowledge of lawn work. At present holds position as florist at one of the leading institutions of the middle west. Address: MIDDLE WEST, care American Florist.

WANTED—To know the address of Prosper Henry, florist. E. R., care Am. Florist.

WANTED—An all-around florist for general greenhouse work. State wages expected with board and room, in first letter. Address: O. R. Demmler, Eau Claire, Wis.

WANTED—By Oct. 1st, good rose man, especially on brides and Maids. Steady position and good wages to right man. F. HOLZNAGLE, Highland Park, Suburb of Detroit, Mich.

WANTED—Man with practical experience in growing cut flowers and bedding plants. State age, nationality, experience and wages wanted. Send references. S. M. HARRISON, Danville, Ky.

WANTED—To buy, at reasonable price, a well-established retail florist business, or established store in live town of over 10,000 inhabitants. If you mean business, write particulars at once to M. M., care American Florist.

WANTED AT ONCE—Experienced man for general greenhouse work. Must be well recommended. Steady position and good wages to the right party. Address: J. A. BISSINGER, Lansing, Mich.

WANTED—Greenhouse assistant in commercial place, southern New York state, wages \$20 per month, board and room. State age, experience and where last employed. Address: PERMANENT, care American Florist.

WANTED—Propagator of roses, carnations, etc. must be thoroughly first-class; no other need apply. Also a few growers of roses and carnations for sections. Good wages and steady work. LAKEVIEW ROSE GARDENS, JAMESTOWN, N. Y.

WANTED—On a fine private place in Omaha, Neb., a first-class florist and gardener for second man. Wages \$30.00 and board. To a man who proves satisfactory in every way after four months will pay \$35.00 per month and board and steady employment. Address: GEO. A. JOSEPH, Omaha, Neb.

FOR SALE CHEAP—My entire stock of plants, glass, boiler, Morehead steam trap, pipes and fittings. Inquire for prices at 1317 N. Michigan Ave., Saginaw City, Mich.

FOR SALE—Horizontal tubular boiler 18x15 with plug hat dome and with 39 3/4-in. flues, very suitable for heating hot houses. Apply to WISCONSIN BOX CO., WAUSAU, WIS.

FOR SALE—An old established greenhouse business; entire plant rebuilt; steam heat. With all the ground or part; also with or without residence. Situated in Cleveland, O. A bargain. Address: O. K., care American Florist.

ANNOUNCEMENT.

The business heretofore conducted under the name of the Laurel Hill Nurseries, has been discontinued. Mr. F. Brunton is no longer manager thereof and has no further connection therewith.

W. F. HAWKINS, Atty., Stockbridge, Mass.

FOR SALE.

Several thousand 12 to 2-inch POTS; also 75 HOT BED SASH. Closing out. Call or address 5411 Woodlawn Ave., Chicago.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address:

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

For Rent or Sale Greenhouse

(about 7,000 feet of glass), dwelling and stable, Evanston, Ill., two blocks from C & N. W. station. Good established trade direct from greenhouse. Rent reasonable. Address:

1127 CHURCH ST., EVANSTON, ILL.

ANNOUNCEMENT.

I have discontinued business at 38 W. 28th Street, New York City, and Harry A. Bunyard is no longer connected with me, or represents me.

L. J. Kreshover, 110-112 W. 27th St. NEW YORK.

If you want to get the want you want to get, you want to get your want ad into the

AMERICAN FLORIST

Try it now.

Every advertisement represents a genuine want. It pays to answer them.



YOU must be aware that anything you want in the Cut Flowerline can be had from

Deamud

While we are now just between Hay and Grass, still our

Beauties, Carnations, Valley and Tea Roses

Are as fine as can be had.

Chrysanthemums will be in very shortly.

J. B. DEAMUD,

51-53 Wabash Ave., Chicago.

Caldwell's Quality Counts Brand
Wild Smilax now on hand.

The F. R. WILLIAMS CO.

WHOLESALE FLORISTS.

Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.

Telephone Connections. **CLEVELAND, OHIO.**

McKELLAR & WINTERSON CO.

Supply Everything Used by Florists, Nurserymen, Gardeners, Seedsmen..... Cemeteries, Parks, Etc.

HEADQUARTERS on CUT FLOWERS
45-47-49 Wabash Ave.
Telephone Main 1129. **...CHICAGO**

Galax AND Leucothoes.

Selected, Bright and Brilliant. Wholesale Trade Solicited.....

J. L. BANNER & CO.. Montezuma, N. C.

Wanted

We wish to make arrangements with a few First-Class Growers for regular consignments of Cut Flowers, especially Roses and Carnations. Can promise good returns.

TEXAS SEED & FLORAL CO.
Wholesale Commission Florists, Dallas, Tex.

RICE BROTHERS

WHOLESALE FLORISTS and FLORISTS' SUPPLIES.

Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.

Special attention given to shipping orders. Send for price list of supplies.

128 N. Sixth St., Minneapolis, Minn.

Holton & Hunkel Co.

Wholesale Florists.

457 Milwaukee St., MILWAUKEE, WIS.

Wholesale Flower Markets

MILWAUKEE, Sept. 25.

Roses, Beauty, long, per doz.	2.00
" " med. " 1.00@1.50	
" " short " .50@ .75	
" Liberty.....	6.00@ 8.00
" Bride, Bridesmaid.....	4.00@ 5.00
" Meteor.....	4.00@ 5.00
" Golden Gate.....	4.00@ 5.00
" Perle.....	2.00@ 4.00
Carnations.....	1.00@ 2.00
Asters.....	.50@ 1.00
Cosmos.....	.75@ 1.00
Adiantum.....	12.00@15.00
Smilax.....	65.00
Asparagus.....	.25
Common ferns.....	.25

PITTSBURG, Sept. 25.

Roses, Beauty, specials.....	21.00@25.00
" " extras.....	15.00@18.00
" " No. 1.....	8.00@10.00
" " No. 2.....	3.00@ 5.00
" Kaiserin.....	2.00@ 6.00
" Bride, Bridemaid.....	1.00@ 4.00
" Meteor.....	1.00@ 4.00
" Liberty.....	2.00@ 6.00
Carnations.....	.50@ 1.50
Asters.....	.25@ 2.00
Lily of the valley.....	2.00@ 4.00
Gladioli.....	1.00@ 3.00
Smilax.....	8.00@12.00
Adiantum.....	.75@ 1.00
Asparagus.....	35.00@40.00
Sprengeri.....	2.00@ 3.00

CINCINNATI, Sept. 25.

Roses, Beauty.....	5.00@25.00
" " Bride.....	2.00@ 4.00
" " Bridesmaid.....	2.00@ 4.00
" " Meteor.....	2.0 @ 4.00
" " La France.....	3.00@ 4.00
" " Kaiserin.....	3.00
Carnations.....	.75@ 1.00
Asters.....	.50@ 1.00
Lily of the valley.....	4.00
Asparagus.....	50.00
Smilax.....	12.00@15.00
Adiantum.....	1.00
Common ferns.....	.15

ST. LOUIS, Sept. 25.

Roses, Beauty, medium stem.....	10.00@20.00
" " Beauty, short stem.....	3.00@ 8.00
" " Bride, Bridesmaid.....	2.00@ 4.00
" " Golden Gate, Carnot.....	2.00@ 5.00
" " Meteor.....	2.00@ 4.00
Carnations.....	1.00@ 2.00
Asters.....	.75@ 2.00
Tuberose.....	5.00
Lily of the valley.....	4.00
Smilax.....	12.50@15.00
Asparagus Sprengeri.....	1.50
" Plumosus.....	.75@ 1.00

E. H. Hunt,

WHOLESALE.....

Cut Flowers

THE "OLD RELIABLE,"

76 Wabash Ave., CHICAGO.

Poehlmann Bros. Co.

Wholesale Growers of

and Dealers in Cut Flowers

All telegraph and telephone orders given prompt attention. 35-37

GREENHOUSES: Morton Grove, Ill. Randolph Street, CHICAGO, ILL.

Bassett & Washburn

76 & 78 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of **Cut Flowers**

GREENHOUSES: HINSDALE, ILL.

The Cincinnati Cut Flower Co.,

437-439 Main St. CINCINNATI, O. **WHOLESALE FLORISTS.**

Consignments Solicited. Special Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.

Michigan Cut Flower Exchange.

Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around. BRONZE GALAX, \$1.00 per thousand.

28 Miami Ave., DETROIT, MICH.

H.G. BERNING

Wholesale Florist

1322 Pine St., ST. LOUIS, MO.

Frank M. Ellis,

WHOLESALE FLORIST,

1316 Pine Street, ST. LOUIS, MO.

CONSIGNMENTS SOLICITED.

C. A. KUEHN,

Wholesale Florist,

1122 PINE STREET, ST. LOUIS, MO.

A complete line of Wire Designs.

Pittsburg Cut Flower Co. Ltd

WHOLESALE FLORISTS.

Pittsburg, Pa.

Please mention the American Florist when writing

You Sell The Goods WE SUPPLY THEM

NOW is the time to do business, while stock is plentiful. Beauties enough for all, choice stock of whatever length. Plenty good roses, many short stems for store openings, etc. Lots of carnations, whites in best demand, quality fine for so early. Let us know your wants, we can fill all orders right at right prices. Send for our weekly price list.

E. C. AMLING, The Largest, Best Equipped and Most Centrally Located Wholesale Cut Flower House in Chicago.
32-36 Randolph St. L. Dis. Phones 1999 and 1977 Central. Chicago, Ill.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

KENNICOTT BROS. CO.

Wholesale Cut Flowers and Florists' Supplies.

42-44 Randolph St., CHICAGO.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Avenue, CHICAGO.

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.

600,000 FEET OF GLASS.

Headquarters for American Beauty.

51 Wabash Ave., CHICAGO, ILL.

FRANK GARLAND,

Wholesale Grower of **Cut Flowers**

SPECIAL ATTENTION GIVEN TO **HARDY CUT FERNS**
55-57 WABASH AVENUE, CHICAGO.
Telephone Central 3784

It is good business policy to mention the

American Florist

When you write to an advertiser.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Speciality..... WHOLESALE GROWER OF **CUT FLOWERS**

Wholesale Flower Markets

Chicago, Sept. 26.		
Roses, Beauty, 36-inch stems	3.00	
" " 24 " "	2.50	
" " 20 " "	2.00	
" " 15 " "	1.50	
" " 12 " "	1.00	
" " 6 to 8 " "	.75	
" " 6 to 8 " "	per 100 4.00	5.00
" Liberty.....	3.00	8.00
" LaFrance, Chatenay.....	3.00	8.00
" Bride, Bridesmaid.....	2.00	5.00
" Meteor.....	2.00	5.00
" Perle.....	2.00	4.00
" Golden Gate.....	2.00	4.00
Carnations.....	1.50	2.00
Asters.....	1.00	1.50
Lily of the valley.....		4.00
Harrisii, per doz., \$2.00		
Tuberose.....	3.00	6.00
Asparagus, per string, .50		
Adiantum.....	.75	1.00
Common ferns, per 100, 1.00		.15
Galax leaves, per 100, 1.25		.15
Smilax, per dozen, 1.25		1.50

Bentley & Co.

F. F. BENTLEY, Manager,
Wholesale Commission Florists
31-35 Randolph St., CHICAGO.

Consignments solicited.....

LILY OF THE VALLEY.

Extra fine cut Valley every day in the year. Fine cold storage pips. \$1.50 per 100; \$13.00 per 1000.

H. N. BRUNS,
1409-1411 W. Madison St., CHICAGO.

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO.

Send for weekly price list and special quotations on 1000 lots.

JOHN MUNO,

Wholesale Grower and Shipper of **Cut Flowers**

Room 221, 51 Wabash Ave., CHICAGO.

TELEPHONE CENTRAL 3598. All telegraph and telephone orders given prompt attention.

Please mention the American Florist when writing.

GEO. REINBERG,

Wholesale Grower of **Cut Flowers**

Choice American Beauties.

We will take care of your orders at reasonable prices. Prompt attention.

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Joliet, Illinois.

Choice Valley and Orchids

SAMUEL S. PENNOCK, Wholesale Florist,

FOR OCTOBER WEDDINGS.

Commencing September 29, will be open from 7:30 A. M. to 8:00 P. M., Saturdays included.

1612-18 LUDLOW ST., PHILADELPHIA, PA.

GEO. A. SUTHERLAND,

34 Hawley St., BOSTON.
Telephone 1270 Main.

BEST BOSTON FLOWERS. All Supplies.
An entire floor Devoted to Stock and Manufacturing. Distributing Agent for United States for the wonderful



LETTER, unequalled for design work. Script, any color, 3/4c a letter. Block letters, 1 1/2c each. The most elaborate design work to order in a few minutes.

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A FULL STOCK OF SEASONABLE FLOWERS.

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15 PROVINCE STREET.

THE NEW YORK CUT FLOWER CO.

55 and 57 West 26th St.,
WHOLESALE FLORISTS,

Daily Reports. Weekly Payments.
TELEPHONES: 2239 Madison Sq. J. A. MILLANG,
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GEORGE SALTFOORD,

Wholesale Commission Florist,

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Fair dealing and prompt returns guaranteed.
Correspondence solicited.

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Buy and Sell... FLOWERS on Close Margin.

Headquarters, 56 West 26th Street,

WRITE, Opposite Cut Flower Exchange,
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OR TELEPHONE. NEW YORK CITY.

N. F. McCARTHY & CO.

Best Quality
CUT FLOWERS
and Supplies,

Tel. 734 and 64 Main. 84 Hawley St., BOSTON.

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Coogan Bldg, 6th Ave. and W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock
Every Morning

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JOHN DONALDSON, Secretary.

Hardy Ferns...

Everything and anything in Florists' Hardy Supplies at lowest prices. Estimates on large orders on application. Prompt delivery.

BOSTON FERN CO., 14 Brattle St., BOSTON, MASS.

Wholesale Flower Markets

BOSTON, Sept. 24.

Roses, Beauty, extra.....	10.00@18.00
" " medium.....	5.00@ 8.00
" " culls.....	.50@ 2.00
" Bride, Bridesmaid, Meteor.....	.75@ 2.00
" extra.....	4.00@ 6.00
" Kaiserin, Carnot.....	3.00@ 5.00
Sweet peas.....	.15@ .20
Carnations.....	.50@ 1.50
Asters.....	.15@ .50
Gladioli Shakespeare.....	2.00@ 4.00
Lily of the valley.....	2.00@ 4.00
Lilies, Harristil.....	3.00@ 5.00
" Japan.....	2.00@ 3.00
Adiantum.....	.75@ 1.00
Asparagus.....	.50
Smilax.....	12.50@18.00

PHILADELPHIA, Sept. 24.

Roses, Tea.....	2.00@ 4.00
" " extra.....	4.00@ 6.00
" Beauty, extra.....	15.00@20.00
" " firsts.....	8.00@12.00
" Queen of Edgely, extra.....	20.00@25.00
" " firsts.....	10.00@15.00
Carnations.....	1.00@ 2.00
Lily of the valley.....	3.00@ 5.00
Asparagus.....	25.00@50.00
Smilax.....	12.50@15.00

BUFFALO, Sept. 25.

Roses, Beauty.....	6.00@25.00
" " extra.....	4.00@ 6.00
Carnations.....	1.50@ 2.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50



HARDY Cut Dagger and Fancy Ferns.
A No. 1 quality \$1 per 1000.
Brilliant Bronze and Green Galax, \$1 per 1000, in 5,000 lots.
Laurel Festooning, 4, 5 and 6c per yard. Orders by mail, telephone or telegraph promptly attended to. Discount on large orders. L. D. telephone 2618 Main.

HENRY M. ROBINSON & CO., 32-36 Court Sq., Boston.

If it is grown in Florida, we supply it.

Florida grown CYCAS LEAVES, fresh or prepared; PALM LEAVES, TRUNKS, CROWNS, SPANISH MOSS, FLORIDA ORCHIDS, "COONTIE", etc., etc.

Seminole Palm Co., Haines City, Fla.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

FANCY OR DAGGER FERNS

1st quality, 75c per 1000. Discount on large orders.

BRONZE OR GREEN GALAX \$1.00 PER 1000.

LAUREL FESTOONING

, just the thing for summer decorations, only 4, 5 and 6c per yd. Discount on ferns and laurel in large quantities.

Millington, Mass.
Tel. office, New Salem.

SHIPPING LABELS FOR

...Cut Flowers

Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples.....

ELECTRO OF THIS LEAF, POSTPAID, \$1.25.

American Florist Co.,

CHICAGO.

Give Us a Trial. We Can Please You



Roses, Carnations and all kinds of Seasonable Flowers in stock.

WM. F. KASTING

, Wholesale Commission Florist.

481 Washington St., Buffalo, N. Y.
Dealer in Florists' Supplies and Wire Designs.

Open Day and Night.

Beauties and Valley Leo. Neissen,

IN QUANTITIES.

On and after Sept. 15th will be open from 7 a. m. till 8 p. m. until further notice.

WHOLESALE FLORIST,

N. W. Cor. 13th and Filbert Sts., Phila.

FOR SEASONABLE FLOWERS

SEND TO
JOHN I. RAYNOR, WHOLESALE COMMISSION FLORIST.

Telephone 1998
Madison Square 49 W. 28th St., NEW YORK.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.

Are supplying the most superb stock of SUMMER FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.
SEND FOR QUOTATIONS.

Walter F. Sheridan,

Wholesale Florist,

Telephone 802 Madison Square.

39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square.



MOORE, HENTZ & NASH

Wholesale Commission Florists,

55 and 57 West 26th St., NEW YORK CITY.

Adjoining New York Cut Flower Co. salesroom. Finest Salesroom in the Trade. Inspection Invited. All business, selling or shipping, strictly commission.

WHOLESALE WILLIAM GHORMLEY, COMMISSION

RECEIVER AND SHIPPER OF FRESH CUT FLOWERS. DAILY STOCK OF ALL THE CHOICEST VARIETIES FROM BEST GROWERS WHO SHIP TO NEW YORK.

ORCHIDS, ROSES, CARNATIONS, VALLEY.

Telephone 2200 Madison Square,

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Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.
51 West 28th St., NEW YORK.
Tel. 1905 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN NEW YORK CITY FOR

Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

WM. H. GUNTHER,
30 West 29th St., New York.
Telephone 551 Madison Square.

Frank Millang

Open from 6 a. m. to 5. p. m.
Cut Flower Exchange, 55-57 W. 26th St.
Phone 289 Madison Square. NEW YORK.

ESTABLISHED 1872.

JOHN J. PERKINS,

COMMISSION FLORIST,
Solicits Consignments or Shipping Orders. Satisfaction given in both.
Write for Terms. 115 West 30th St., New York.

Bonnot Bros.

WHOLESALE FLORISTS.
55 and 57 W. 26th St. New York.
Cut Flower Exchange.
OPEN 6:00 A. M.
An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.

Traendly & Schenck

NEW YORK CITY,
38 W. 28th Street, Cut Flower Exchange.
New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

NEW YORK, Sept. 24.

Roses, Beauty, select.....	12.00@25.00
" " medium.....	5.00@12.00
" " culls.....	.50@ 2.00
" Bride, Bridesmaid.....	.25@ 5.00
" Liberty, Meteor.....	1.00@ 5.00
" Testout, Kaiserin, Carnot	1.00@ 6.00
Carnations.....	.50@ 2.00
Lily of the valley.....	2.50@ 3.00
Lilies.....	3.00@ 5.00
Asters, per 100 bunches	1.00@3.00
" sprays.....	.25@ .75
Cattleyas.....	35.00
Smilax.....	4.00@ 8.00
Adiantum.....	.50
Asparagus.....	35.00@50.00
Sprengerl, doz. bun.	2.00@3.00

RELIABLE AT ALL SEASONS.

Best Flowers.

REASONABLE PRICES.

J. K. ALLEN

Telephone 167 Madison Square.
OPEN AT 6 A. M. DAILY.
106 W. 28th St., NEW YORK.

FORD BROS.

Receivers and Shippers of
FRESH FLOWERS,
111 West 30th St., NEW YORK.
Telephone 157 Madison Square.

Julius Lang

53 West 30th Street, NEW YORK.
REPRESENTS THE BEST GROWERS OF
ROSES, CARNATIONS, VALLEY.
TELEPHONE 280 MADISON SQUARE.

ALEX. J. GUTTMAN,

Wholesale Commission Florist,
A full supply daily of the choicest
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FLOWERS.
52 W. 29th Street, NEW YORK CITY.
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Wholesale Commission Florist,
BEST FLOWERS SHIPPED AT LOWEST
NEW YORK PRICES.
19 Boerum Place, Brooklyn, N. Y.
TELEPHONE 939 MAIN.

...GEO. M. KELLOGG...

Largest Grower of... Cut Flowers
in the West.
Give us an order and we will please you.
Our Greenhouses at PLEASANT HILL, MO.
Our Store, 906 Grand Ave., KANSAS CITY, MO
LONG DISTANCE 'PHONE AT EITHER PLACE.

EDW. C. HORAN,

47 WEST 28TH ST.,

Tel. 421
Madison Square,NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

POTATO prospects indicate lower catalogue prices for 1903.

NEBRASKA seed growers continue to make unfavorable crop reports.

JAS. McHUTCHISON & COMPANY, have opened at 218 Fulton street, New York.

VISITED CHICAGO:—Alfred Emerich, representing Vilmorin-Andrieux & Company, Paris, France.

ROBERT BUIST, of Robert Buist & Company, Philadelphia, is at Atlantic City, N. J., ill with typhoid fever.

VISITED ST. PAUL:—J. B. Comont, representing Carter, Dummett & Beale, and S. B. Dicks and son, representing Cooper Taber & Company, of London.

JOHN A. BRUCE & COMPANY, Hamilton, Ont., report excellent trade in general grass seed lines the past season, with good prices. Prospects for next year are satisfactory.

PICKLE men have commenced to realize the conditions of the cucumber seed crop and inquiries are coming in very freely. It will not be a question of the price of the seed but of supply at any price.

THE Alfred J. Brown Seed Company, Grand Rapids, Mich., has filed notice of dissolution, the stock of the corporation being all held by one party. The style of the firm will remain the same, Alfred J. Brown, proprietor.

Cincinnati.

CLUB HOLDS A VERY ENJOYABLE SESSION AT MURPHYVILLE.—GOOD CARNATIONS.—FOUR MONTHLY EXHIBITIONS PLANNED.—BUSINESS GOOD.—PARADE REQUIRES MUCH STOCK.—VARIOUS NOTES.

The September meeting of the Cincinnati Florists' Society was held last Friday at the residence of Wm. Murphy. Despite the damp weather there was a good attendance and a very enjoyable time. President Murphy met the florists at the end of the car line with three large wagons. It was found that the crowd was too big and Mr. Witterstaetter had to call his wagon into use to help transfer the crowd to Murphyville. Arriving at Mr. Murphy's place we were conducted through the greenhouses to view Murphy's White carnation. Will is also very strong on Estelle and Lawson. After looking over the place we partook of a buffet lunch and then got down to the business meeting. All bills were ordered paid. The schedule committee reported for three exhibitions the coming season, chrysanthemums in November, violets and roses in February and carnations in March. Altogether there will be about \$325 awarded in premiums. The December meeting was left open for new and meritorious varieties of plants and flowers, also specialties, such as begonias, cyclamens and ferns. Word was received from Secretary Stewart, of the S. A. F., that our society would be the recipient of a silver and a bronze medal to be awarded for new and meritorious plants or flowers. The same was accepted and a vote of thanks tendered for same. J. W. Rodgers read a well gotten up paper on Asheville and its surroundings, which was listened to with great interest. After the meeting we sat

down to a fine supper, followed by music and a rollicking good time.

The floral display at the Fall Festival was called off for Thursday, September 25, owing to a lack of competition. What is the matter boys? Are you all afraid of Tom Hardesty? There will be a large display of lodge emblems, however, on September 27. This display will include emblems sent to the Festival by the different orders and we can look for a fine display as some of the lodges are spending as high as \$100 for their designs.

Business the past week has been all that could be expected. The civic parade used up an immense quantity of natural flowers although it is true that paper flowers predominated; however, it would have been impossible to have secured enough natural flowers to decorate all the vehicles. Some idea might be formed about the flowers used by the fact that in one design a calla lily made of white asters took 3,000 flowers.

An immense amount of asters are being shipped into the city and roses are in good crop. George & Allan are sending in some extraordinary valley, which sells at \$5 per hundred.

John Bertermann, of Indianapolis; Chas. Reimers, of Louisville, and Harry Altick, of Dayton, acted as judges of the floral exhibits at the fall festival last week Thursday.

Felix H. Myers, representing R. Craig & Son, was a caller this week. D.

WASHINGTON IA.—Elmer Keck is making good progress on his new connected houses 55x88. This is at a new location, and both places will be run this winter, the old place to be removed to the new next season.

BRAMPTON, ONT.—At the H. Dale estate a power plant is in course of erection which is expected to be the most modern in America used for greenhouse heating. The plans are those of the King Construction Company, of Toronto.

OVER 2,000 ACRES IN CULTIVATION.

Braslan Seed Growers Co.

Growers for the Wholesale Trade Only.

Correspondence solicited.

SAN JOSE, CAL.



Field of Improved Hanson Lettuce ready for cutting for Seed Crop 1902.

Mushroom Spawn Fresh Importation
FERTILE. PRODUCTIVE.
 English in bricks, per 100 lbs., \$8.50 f. o. b. New York, \$7.00 f. o. b. Chicago.
 Write for prices on quantity.
Vaughan's Seed Store,
 CHICAGO. NEW YORK.

**Strictly New England
 GROWN SEEDS.**

SPECIALTIES—Onion (Southport Globes), Turnip Seed and Sweet Corn, Beet, Parsnip, Carrot, Cabbage. We can answer all questions without finching as to quality and where grown.

The E. B. CLARK CO., Milford, Conn.

**BURPEE'S
 SEEDS
 PHILADELPHIA.**

Wholesale Price List for Florists and Market Gardeners.

ESTABLISHED 1802

THORBURN'S SEEDS

Send for special low prices on **LILIAM HARRISII** stating the number you require. We have unexpectedly received a large consignment.

J. M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

Please mention the American Florist when writing.

PHILADELPHIA PALMS.

JOSEPH HEACOCK

Offers the following varieties and sizes, home grown and in excellent condition:



ARECA LUTESCENS.

	Per doz.	Per 100
2 inch pot, 1 plant in pot, 10 to 12 inches high.....	\$ 6.00	
4 " " 3 plants " 18 to 20 "	3.00	25.00
6 " " 3 " " 24 to 26 "	9.00	75.00
6 " " 3 " " 28 to 30 "	12.00	100.00
10 " " 3 " " 42 to 45 "	\$5.00 each.	
10 " " 3 " " 50 to 60 "	7.50 each.	

COCOS WEDDELIANA.

2x3-inch pots, 6 to 8 inches high	\$10.00 per 100
2x3-inch pots, 8 to 10 inches high.....	15 00 per 100

KENTIA BELMOREANA.

	Per doz.	Per 100
2 1/2-inch pot, 8 inches high.....	\$1.50	\$12.00
3 " " 4 to 5 leaves, 12 to 15 inches high.....	2.50	20.00
4 " " 5 to 6 " 15 to 18 "	4.50	35.00
6 " " 5 to 6 " 24 "	12.00	100.00
6 " " 6 to 7 " 24 to 28 "	15.00	125.00
6 " " 6 to 7 " 28 to 30 "	18.00	150.00

MADE UP KENTIA BELMOREANA.

8-inch pots, 4 plants in a pot, 36 to 40 inches.....	\$3.00 each
8-inch pots, 4 plants in a pot, 48 inches.....	4.00 each

JOSEPH HEACOCK, Wyncote, Pa.

Zirngiebel Giant Pansies.

Trade packages at one dollar each. Also plants of the above strains at \$5.00 per 1000, guaranteed equal to any that we ever sent out.

DENYS ZIRNGIEBEL, Needham, Mass.

H. Wrede, LUNEBURG, GERMANY PANSY SEED.
 156 First Prizes, the highest awards Chicago, Hamburg '97, Paris 1900. 1000 Seeds, finest mixed, 25c. 1 oz. " " \$2.25
 Price List on application Cash with order.

FAXON'S "WHITE HOUSE" PANSIES.

The best mixture in cultivation, flowers very large, thick and velvety; of superb colors and markings. The perfection of form and texture. In Trade Packets at \$1.00 each. M. B. FAXON, Lock Box 1528, BOSTON, MASS. Correspondence solicited.

FERNS my selection for dishes, \$2.50 per 100. Pteris Argyræa, Tremula, Ouvrardi, Caraway, 4-in., 8c. Chinese Primroses and Db e. Bouvardias, 3-in., 5c. 100 field-grown Louise Violets left, \$5 00. Dbfe. Alyssum, \$3 00
LEVANT COLE. Battle Creek, Mich.

STOCK GERANIUMS

Field-grown heavy plants. J. D. Eisele and James Davidson, our 1902 novelties, fine heddors, \$2.00 per doz. America, Beaute Poitevine, Dryden, Mrs. E. G. Hill, Frances Perkins, \$1.00 per doz. Cash please.

HENRY EICHHOLZ, Waynesboro, Pa.

Anemone Japonica

This class of plants is among the most desirable of our hardy perennials, commencing to flower early in spring and continuing until frost. The following varieties are the best in their color and style of flower.

Extra Strong Field-Grown Clumps

ALBA.....	\$6.00 per 100	LADY ARDILAUN.....	\$8.00 per 100
ELEGANTISSIMA.....	10.00 per 100	QUEEN CHARLOTTE.	8.00 per 100
ROSEA SUPERBA.....	\$12.00 per 100.		

NATHAN SMITH & SON, Adrian, Mich.

Cut Gladiolus Spikes

of the **HIGHEST QUALITY**, in lots of from 100 to 100,000. Pink, scarlet, crimson, white, light, yellow, blue, lavender and heliotrope; in fact, almost every shade imaginable.

Write for prices and particulars, stating your requirements.

ARTHUR COWEE, "Meadowdale Farm," Long Dist. Phone, BERLIN, N. Y.
 U. S. Representative and Grower of GROFF'S HYBRIDS.
 Watch this space for both advertisement later.

B. & A. SPECIALTIES

ENGLISH MANETTI	\$12.00 per 1000
FRENCH MANETTI.....	\$10.00 per 1000

ASK FOR FALL CATALOGUE NOW READY.

BOBBINK & ATKINS, Rutherford, N. J.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. IJGENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

THE Stephen Crane Nursery, at Norwich, Conn., will be put on the market by the executor.

THE business heretofore conducted at the Laurel Hill Nurseries, Stockbridge, Mass., Frank Brunton, manager, has been discontinued.

C. L. WATROUS, of Des Moines, Ia., has purchased the Terry plum, originating with H. A. Terry, at Crescent, Ia., and will distribute it a year hence.

C. W. STUART & COMPANY, of Newark, N. Y., have purchased a large three-story brick building, most of which will be required for office room for their growing business.

THE nurserymen are steadily going into orcharding, the latest venture announced being in western Maryland. H. E. Van Deman is president and manager of the company and several nurserymen are stockholders.

Toronto.

TRADE BRISK AND STOCK IN SHORT SUPPLY.—GOOD ROSES MOVING WELL.—WEDDING DECORATIONS REQUIRE MUCH STOCK.—THE FIRST CHRYSANTHEMUMS.—PERSONAL AND TRADE NOTES.

The last week has seen a decided improvement in roses but still there has not been enough stock to go around. The many fall weddings are calling for decorations which are using up large quantities of stock. Beauties again hold predominance, and some good flowers with long stems are noticed in the different stores. Liberty, after a long absence, has again made its appearance, and from present indications has come to stay, as the flowers are very good. Meteor, Bride and Bridesmaid have all picked up considerably and stems are getting much longer and the foliage better. Carnations are also becoming very plentiful and longer in the stem. The few violets that come to town are soon picked up. Princess of Wales at present seems much the best. Frost has not yet appeared in this section and gladioli, dahlias and some Clematis paniculata add much in relieving the otherwise short market.

W. Jay & Son, of Spadina avenue, have about completed remodeling their store. They have a nice conservatory at the rear and the place looks very clean and bright. They report good business the past summer.

A few nice chrysanthemums, white and yellow Fitzwygram, from R. Jennings, of Brampton, are the first of the season. He has a fine batch of these early varieties and finds ready sale for them.

W. J. Lawrence reports good business at the Yonge street store. He has been keeping his windows well filled up and the place looks very attractive.

H. G. D.

Indianapolis.

PREMIUMS FOR FLORAL EXHIBITS AT THE STATE FAIR.—A MEAGER DISPLAY.—PERSONAL AND TRADE NOTES.

The State Fair was unusually well patronized, but the flower display was meager. What there was, however, looked fresh and kept well to the very last day. The same firms that have made

displays for the last few years were there, with the exception of A. Wiegand, whose place was taken by E. A. Nelson. George Stellhon, of this city, acted as judge. Premiums were awarded as follows. Baur & Smith were first on ten blooming begonias, ten foliage begonias, two filled vases, two specimen Boston ferns and display of show plants. W. W. Coles was first on collection of roses second on collection of cut gladioli, on collection of dahlias and on collection of cut flowers. J. L. Childs was first on gladioli. E. A. Nelson was first on collection of cut flowers, second on original show arrangement of flowers, on three bouquets, on cut roses and on two baskets, third on gladioli. John Rieman was first on two funeral arrangements, on two baskets, on original show arrangement of flowers and on three bouquets.

H. W. Rieman has finished all his improvements and has his carnations planted. He is now in good shape for winter. Mr. Rieman has been unusually busy with funeral work this fall.

E. A. Nelson, as well as the Indianapolis Flower and Plant Company, have planted American Beauties very exten-

sively this year. The stock in both places looks well. The Indianapolis Flower and Plant Company is getting ready to use coal; until now they have had a sufficient supply of gas, which is a thing of the past.

Mrs. J. G. Rathsan died suddenly last week. Her husband, formerly a well-known florist of this city, died about a year ago.

John Bertermann was in Cincinnati last week to act as judge at the floral display for the fall festival.

John Grande is investing his surplus in real estate. He has built a very nice double house for renting.

Mrs. M. Brandlein and little son, who have been very sick with typhoid fever, are convalescent.

Alvin Schreiber, of Bertermann Bros., is on the sick list. H. J.

STERLING, MASS.—The "Angel's Trumpet" is the soaring name given to a datura plant with which a lady amateur here is dazzling the reporters for the Worcester papers. Pity she didn't send a few samples to Asheville.

California Privet.

Any Size Desired up to 6 Feet.

Contracts for immediate and future delivery solicited.

Very attractive prices on car load lots, either of a single size or assorted sizes.

J. T. LOVETT, LITTLE SILVER, N. J.

Strawberry Plants.

FROM POTS. Well established young plants of Clyde and Wadfield. (both immense croppers), for planting now and in August. Warranted to produce a full crop of the finest berries next spring. Price 50c per doz.; \$2.00 per 100. P. S.—100 planted now will give an ordinary family all they can use.

F. A. BALLER, BLOOMINGTON, ILL.

WANTED,

A quantity of AMERICAN ELMS, 3 1/2-inch Calliper, straight, clean and well balanced heads. Send particulars to C. C., 14th floor, St. James Bldg., New York City.

MANETTI

ROSE STOCKS, English grown, especially graded for Florists' grafting. Write for prices. Headquarters for WHOLESALE DEPT. RAFFIA Thomas Meehan & Sons, Inc., Dreshertown, Pa.

NEW FRUITS.

Golden Mayberry, strong transplants,	100	1000
Iceberg Blackberry, "	\$4.00	
Rathbun Blackberry, "	3.00	25.00
Cumberland Raspberry, "	3.50	30.00

The Conard & Jones Co, West Grove, Pa.

100,000 PANSIES

Highest Grade, Finest Stock. The Jennings Strain.

Mr. John Lewis Childs, of Floral Park, N. Y., says of the Jennings Strain: "The largest and finest colored flowers I have ever seen." By mail 75c per 100; by express, \$4.00 per 1000; 3,000 \$11.00; 5,000 \$18.00. Separate colors same price. Large plants ready to bloom Oct. 1st, \$1.00 per 100; \$8.00 per 1000. SEED, \$1.00 per pkt.; \$5.00 per oz. CASH WITH ORDER.

E. B. JENNINGS, Lock Box 254, Southport, Conn. Grower of the Finest Pansies.

THE Gardeners' Chronicle.

A Weekly Illustrated Journal.

ESTABLISHED 1841.

The GARDENERS' CHRONICLE has been FOR OVER SIXTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, the information furnished is of such general and permanent value that the GARDENERS' CHRONICLE is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, \$4.20 per year. Remittances to be made payable to H. G. COVE.

OFFICE:—

41 Wellington St., Covent Garden, London, England.

The Horticultural Trade Journal

THE LARGEST, BRIGHTEST AND BEST

Horticultural Trade paper in the British Isles. It contains MORE ADVERTISEMENTS, MORE ILLUSTRATIONS and MORE NEWS than any of its contemporaries. Read by the whole of the British trade and all the best European houses every week. Annual subscription, 75 cents. Specimen copy post free. Published weekly. Horticultural Trade Journal Co., Padham, Lanca., Eng.

Special Offering of CRAIG SPECIALTIES.

Areca Lutescens, Kentias, Ficus, Pandanus, Begonia Lorraine, Etc.

The stock was never as large or as fine as at the present time. We are very anxious to make room immediately and have priced the following stock unusually low considering the quality of the goods. It is to your advantage to secure your fall supply of Palms, etc., for the coming season before cold weather sets in, and bear in mind that this is

CRAIG STOCK.

Areca Lutescens.

2-inch pots \$40.00 per 1000; \$5.00 per 100
 3-inch pots, 3 plants in pot..... 15.00 per 100
 4-inch pots, single..... 25.00 per 100
 4-inch pots, 3 plants in pot..... 30.00 per 100
 5-inch pots, 3 plants in pot, 18 inches high .. 50.00 per 100
 6-inch pots, 3 plants in pot, 2 ft. high, extra fine 75.00 per 100
 6-inch pots, 3 plants in pot, 2 ft. high, extra fine 100.00 per 100
 16-inch pots and tubs, 8 to 10 feet high. \$ 30.00 to \$40.00 each
 20 to 24-inch tubs, 10 to 12 feet high..... 50.00 each

The plants at 50c, 75c and \$1.00 each are very fine indeed and are priced very low.

KENTIA BELMOREANA.

2-inch pots..... \$80.00 per 1000; \$10.00 per 100
 3-inch pots..... 20.00 per 100
 4-inch pots..... 40.00 per 100
 5-inch pots, 18 inches high 75.00 per 100
 6-inch pots, 20 to 24 inches high..... 100.00 per 100
 6-inch pots, 20 to 24 inches high, made up plants...\$1.50 each

KENTIA FORSTERIANA.

2-inch pots..... \$80.00 per 1000; \$10.00 per 100
 3-inch pots..... 20.00 per 100
 4-inch pots..... 40.00 per 100
 6-inch pots, 2 feet high, made up plants...\$1.00 to \$1.25 each
 8-inch pots, 3 to 3½ ft. high, made up plants.. \$3 to 3.50 each
 10-inch pots, 5 feet high, single..... \$5.00 to 6.00 each
 10-inch pots, 4 to 5 ft. high, made up plants 7.50 to 10.00 each

CROTONS, ASSORTED VARIETIES.

4-inch pots.....\$25.00 per 100
 5-inch pots 50.00 per 100
 6-inch pots, fine specimens \$1.00 each
 11-inch cedar tubs, made up plants.....\$3.50 to 4.00 each
 8-inch pots, fine specimens..... 2.00 to 2.50 each
 12-inch pots, fine specimens, made up plants 7.50 to 10.00 each

BEGONIA GLOIRE DE LORRAINE.

We have the largest and finest stock of this plant in America.
 2-inch pots\$140.00 per 1000; \$15.00 per 100
 3-inch pots 25.00 per 100
 4-inch pots 50.00 per 100
 5-inch pots75c each

FERN BALLS.

Two-year-old, in full growth and excellent condition, 75c each

BOSTON FERNS.

Grown very cool and in plenty of light.
 10-inch pots, extra fine plants, bushy.....\$2.50 to \$5.00 each
 Also fine plants at 50c, 75c, \$1.00 and \$1.50 each.

FICUS ELASTICA.

4-inch pots..... \$25.00 per 100
 6-inch pots, 24 to 30 inches high..... 50.00 per 100
 10-inch pots, fine perfect specimens, 3 ft. high.....\$3.00 each
 8-inch pots, branched, dwarf and bushy, \$1.50 to 2.00 each

CYCAS REVOLUTA.

10-inch pots, extra fine..... \$7.50 each
 12-inch pots, extra fine, 20 to 30 leaves.....20.00 each

ENGLISH IVY.

We have a lot of extra fine plants on trellises which are fine for decorations.

4-inch pots..... \$15.00 per 100
 6-inch pots.....\$1.00 each

ARAUCARIA ROBUSTA COMPACTA.

8-inch pots, superb plants, 20 inches high...\$2.50 to \$3.00 each
 8-inch pots, superb plants, 30 inches high 4.00 each

ARAUCARIA EXCELSA GLAUCA.

7-inch pots, 15 to 18 inches high.....\$2.00 to \$2.50 each
 10-inch pots, 24 inches high..... 3.00 to 5.00 each

ARAUCARIA EXCELSA.

5-inch pots, 15 to 18 inches high75c each
 6-inch pots, 2 feet high..... \$1.50 each

PANDANUS VEITCHII.

6-inch pots, 15 inches high.....\$1.00 each

PANDANUS UTILIS. A very large Stock.

6-inch pots.....75c each
 8-inch pots.....\$1.50 each
 10-inch pots.....\$2.50 to 3.00 each

PHOENIX CANARIENSIS.

8-inch pots, very fine plants, 3 to 3½ ft. high.....\$2 to \$3 each
 10-inch pots, very fine plants, 4 feet high...\$3.50 to \$4.00 each
 12-inch pots, very fine plants, 5 feet high..... 6.00 each

CARYOTA MITIS.

8 to 10-inch pots, 3 to 5 ft. high..... \$2.50 to \$3.00 each

PTYCHOSPERMA ALEXANDRAE.

5 and 6-inch pots75c each

BAY TREES, STANDARD AND PYRAMID.

We still have a fine stock. Prices on application.

Fine Carnation Plants

Norway and Crane. Special prices on application.

ROBERT CRAIG & SON, MARKET AND 49TH STREETS,
 PHILADELPHIA, PA.

Estelle, Bradt, Prosperity, Roosevelt, Melba, Lord, Joost, Dorothy,

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

BOWLING clubs everywhere are awakening for the season's campaign. Send in the scores.

THERE will be a meeting of the New York Florists' Bowling Club on Monday evening, September 29, at Arlington Hall, 23 St. Mark's Place, New York City.

THE Chicago florists are represented in the Illinois Bowling League by a team composed of Geo. Asmus, E. F. Winter-son, Fred. Stollery, Chas. Balluff and P. J. Hauswirth.

Denver.

TRADE BRISK AND GOOD STOCK SCARCE.—CARNATIONS IN DEMAND.—FROST KILLS OUTDOOR MATERIAL.—PERSONAL DOINGS OF INTEREST.

Funeral work has kept the trade busy and good stock is scarce. Tea roses are decidedly small. The demand for Beauties is good but they are not yet what can be called perfect, of only medium length and light color. Carnations are scarce. Lawsons are coming in pretty fast but are too short in stem to do any good. What few good ones are brought in sell well and at good prices. A heavy frost has settled the outdoor stock, some of which we would be very thankful for just now, or until the chrysanthemums show up.

H. J. Berry, for five years with the Park Floral Company, is now with the Webb Floral Company. Harry "grew up" with the former company and though one of the youngest in years he was one of the oldest employes. He has the best wishes of his former employer and those who worked with him.

A heavy rain last Saturday night did a little damage, hail falling in some parts of town. Glass did not suffer heavily but violets in the frames caught it and August Schenkel reports that his were badly cut up.

John Berry acted as judge at the State Fair held at Pueblo last week. B.

Detroit.

CLUB HOLDS INTERESTING SESSION.—BOWLERS PLAN ACTIVE SEASON.—CLUB TO HAVE FINE WINTER'S PROGRAMME.—TRADE BRISK AND STOCK SCARCE.—NOTES OF THE GROWERS.

The club meeting September 17 was well attended, thirty members being present. Another member was added to the list, which now numbers nearly eighty. Only miscellaneous business was transacted, including a consideration of bowling arrangements for the winter, as many are eager to enter the contest at Milwaukee next August. The coal question, which is a matter of much concern to many of us at present, was a topic of great interest, as only a few have yet made definite arrangements for their winter supply. The business sessions of the club this winter will alternate with evenings of entertainment and definite arrangements for the same are in the hands of committees appointed for the purpose.

Trade continues to increase considerably and the general scarcity of roses

and carnations is daily more perceptible. Some good asters are yet to be had and are used advantageously. President Roosevelt's visit to our city, on the occasion of the reunion of the Spanish war veterans, gave a considerable impetus to trade, but the general decorations were largely supplied from the city parks.

M. De Beul is now located on his new place, corner Van Dyke and Warren avenues, where he is just finishing the construction of two houses each 20x100 and one house for propagating, 10x80 feet. Double strength glass, 16x46, is being used. He will heat with steam.

C. H. Plumb has finished his two new houses and has them planted with roses. A new boiler room and work shed are further improvements he is making. Louis Colquitt close by is rebuilding one house, 21x83 feet. He is also putting in a new hot water boiler.

A. Kaier, of Woodmere, has rented his greenhouses to C. W. Keller, formerly of Chicago, and more recently of the state of Washington. He intends to grow carnations chiefly.

John Dunn, who was one of the party from here to Asheville, and who continued his trip as far south as Natchez, Miss., has returned and is highly pleased with the whole trip. J. F. S.

Pittsburg.

TRADE GOOD.—SUMMER AHEAD OF PREVIOUS RECORDS.—GOOD STOCK IN SIGHT.—ROSES NOT PLENTIFUL.—CHRYSANTHEMUMS WANTED.—VARIOUS NOTES.

Business has expanded wonderfully during the last three weeks and, on inquiry into the success of the summer's business, it seems to be unanimously agreed that a remarkable increase has been made in every branch of the trade. Home growers have wasted no time in improving their plants with the view that every inch of space will be utilized from now on. Roses have not improved much, but some good Beauties are coming in. They are a big help to us now, when the other kinds of rose stock are so limited. Asters have been extraordinarily fine this summer, especially whites. They were the basis of probably two-thirds of the funeral work. Carnations are beginning to improve. Both single and double dahlias assist in making attractive window displays. Many inquiries about chrysanthemums are made by persons who desire them for early October weddings. We expect to have them in within two weeks.

"Sam" McClements is building a new barn in the rear of his residence. It will be large enough to stable twenty-five head of horses. He will also have a department for Shetland ponies, of which he owns a number.

The coal famine will not affect the growers in western Pennsylvania, as natural gas is the general fuel used, and for those who have used coal, but little time is needed to change from one fuel to the other.

The new cacti house in Schenley Park will be opened to the public on October 26, when the chrysanthemum show opens. It is said that this will be one of the finest displays of cacti in the country.

Gilbert Weakley, of Randolph & McClements, has returned from his tour in the Allegheny mountains.

The Oakwood Rose Gardens, of Oil City, are still shipping good roses to Pittsburg.

George Marshall, of the Pittsburg Cut Flower Company, is back from the country.

H. L. Blind, of Blind Bros., is elated over the arrival of a handsome boy.

Fred. Burki has finished glazing and his new houses are now complete.

Harvey Sheaf has returned from his trip to West Virginia.

Charles Koening is sending in some fine Kaiserin roses. E. L. W.

ANOKA, MINN.—D. O. Pratt has opened a retail store and says the outlook is for a very good season.

GREENSBURG, PA.—Joseph Thomas is adding largely to his range, building two houses 20x100, two 16x100 and one 10x100. He has had good business.

We have the largest stock of **ARAUGARIA EXCELSA** in the country. May importation, raised from top cuttings only.

5-inch pots, 3 tiers, 10 inches and above.....\$.50
 5½-inch pots, 12 to 14 inches.....60 to .75
 6-inch pots, 15 to 18 inches.....75 to 1.00
 Specimen.....1.25
KENTIA FORSTERIANA and **BELMOREANA**,
 5½ to 6-in. pots, 25 to 30 inches high. .75
FICUS ELASTICA, 5½ to 6-in., 18 to 24
 inches high, from \$4.00 to \$5.00 per doz.
BOSTON FERNS, 6-inch pots......40
 Cash with order please. To save express men-
 tion if pots to be taken off.

GODFREY ASCHMANN,
 WHOLESALE GROWER AND IMPORTER
 OF POT PLANTS.
 1012 Ontario Street, PHILADELPHIA, PA.

GALAX LEAVES



Ferns, Leucothoe Sprays.

The above furnished to foreign or U. S. trade, goods guaranteed. We solicit wholesale trade.

W. A. DAVIS & CO.,
 LOCK BOX 13. MARION, N. C., U. S. A.

FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)
 Write, Wire or Phone the Introducing,
Caldwell The Woodsman Co., Evergreen, Ala.
 or their agents: L. J. Kreshover, New York; J. B. Deamud, Chicago; H. Bayersdorfer & Co., Philadelphia; W. F. Kasting, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.

Southern Wild Smilax,

Long Needle Pines, Magnolia Leaves,
 Mistletoe, Holly,
 Palm Crowns and Palm Leaves.

Orders filled promptly at lowest prices consistent with choice quality.

JOHN S. COLLINS, GENEVA, ALA.

Galax Bronze, \$1.25 per 1000; Green, \$1.00 per 1000. **Southern Smilax**, best quality, 50 lb. case \$6.00; 35 lb. case \$4.50; 25 lb. case \$3.75. **Leucothoe Sprays**, bronze and green, assorted sizes, \$1.00 per 100. **Sphagnum Moss**, \$1.50 per bale. **Palmetto Leaves**, \$1.50 and \$2.00 per 100.

L. J. KRESHOVER,
 110-112 W. 27th Street, NEW YORK CITY.
 Telephone call, 597 Madison Square.

WIRE US when in need of the very best **Southern Wild Smilax, Holly, Magnolia Foliage, Pine Boughs, Maiden Hair,** rooted, \$2.50 per 1000; all cream of the deep woods, A No. 1 stock.
SOUTHERN WILDWOOD CO., Garland, Ala.

PALMS, FERNS, ETC.

ARAUCARIA EXCELSA.

Size Pots.	Height.	Whorls.	Each.
5-inch	15 inches	3 to 4	\$1.00
7-inch	22 to 24 "	4 to 5	1.50

ARAUCARIA EXCELSA GLAUCA.

Size Pots.	Height.	Whorls.	Each.
5-inch	12 inches	3 to 4	\$1.00
5-inch	14 "	3 to 4	1.25
7-inch	26 "	5 to 6	3.00

ARAUCARIA ROBUSTA COMPACTA.

Size Pots.	Height.	Whorls.	Each.
5-inch	10 inches	2 to 3	\$1.25
6-inch	14 "	3	1.75
7-inch	22 "	4	3.00

FICUS ELASTICA—RUBBER TREE. PERFECT, SHAPELY PLANTS.

Size Pots.	Height.	Each.	Doz.	Per 100
5-inch	15 to 18 inches	\$.40	\$4.50	\$35.00
6-inch	20 to 24 inches	.60	6.00	50.00

KENTIA BELMOREANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	5 to 6	22 to 24 inches	\$1.00	\$12.00
6-inch	6 to 7	28 to 30 "	1.50	18.00
7-inch	6 to 7	30 to 32 "	2.00	24.00
8-inch	6 to 7	36 to 38 "	2.50	
8-inch	6 to 7	38 to 40 "	3.50	

LATANIA BORBONICA.

Size Pots.	Height.	Each.	Doz.
6-inch	7 character leaved	20 to 24 inches	.75
7-inch	8 to 9 "	25 to 26 "	1.25
8-inch	8 "	40 to 48 inches	3.00

BOSTON FERNS.

Large stock of all sizes pot-grown plants. Write for prices.

KENTIA FORSTERIANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	5 to 6	20 to 24 inches	\$.75	\$9.00
5-inch	5 to 6	30 "	1.25	15.00
6-inch	5 to 6	32 to 36 "	1.50	18.00
7-inch	6	34 to 38 "	2.00	24.00
8-inch	6	48 to 50 "	4.00	

PANDANUS UTILIS.

Size Pots.	Height.	Each.	Doz.	Per 100
6-inch	20 to 22 inches	\$.75	\$8.00	
7-inch	24 to 26 "	1.00	12.00	

CYCAS REVOLUTA.

We can supply fine plants, well rooted, with fine, perfect crowns, in sizes from 3 to 10 lb. stems, at an average price of 15c per leaf.

PHOENIX CANARIENSIS

Size Pots.	Height.	Each.
7-inch	24 to 26 inches, stocky plants	\$1.50
9-inch	4 feet, stocky plants	3.00

ASPARAGUS PLUMOSUS NANUS.

We have a very large stock of all sizes.
2 1/2-inch pots per doz., \$.75 per 100, \$5.00
3-inch pots " 1.00 " 8.00

ASPARAGUS SPRENGERI.

2 1/2-inch pots, per 100, \$3.50 per 1000, \$30.00
3-inch " " 7.00
4-inch pots, per doz., \$1.50 " 12.00

CELESTIAL PEPPER, OR CHRISTMAS CHERRY.

One of the best plants for Thanksgiving and Christmas sales. We have a large stock of well grown plants.
3-inch pots, strong, per doz., \$.75 per 100, \$ 6.00
4-inch pots " " 1.25 " 10.00

VAUGHAN'S SEED STORE,

84-86 RANDOLPH ST., CHICAGO. 14 BARCLAY STREET, NEW YORK.
GREENHOUSES, WESTERN SPRINGS, ILL.

Asparagus Sprengeri.

	Per 100
500 3-inch pots	\$ 6.00
500 2 1/2-inch pots	3.00
250 Asparagus Tenuissimus, 4-in. pots.	6.00
200 Asparagus Plumosus, 4-in. pots.	10.00
25 Boston Ferns, 8-in. pots, 90c each.	
50 Rubber Plants, 20 to 24 inches, 6-inch pots.	45c each.

CASH WITH ORDER.

THE LIVINGSTON SEED CO.
COLUMBUS, OHIO.
Please mention the American Florist when writing.

PANSIES

Roemer's Superb Prize Pansies.
The World's Best.

STONG, FINE STOCKY PLANTS,
Mixed colors, by mail, 75 cents per 100; by express, \$4.00 per 1000; \$7.00 per 2000; \$10.00 per 3000; \$15.00 per 5000; \$25.00 per 10,000.

CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

Please mention the American Florist when writing.

ALL nurserymen, seedsmen and Florists wishing to do business with Europe should send for the "Horticultural Advertiser."

This is the British Trade Paper, being read weekly by all the Horticultural traders; it is also taken by over 1000 of the best continental houses. Annual subscription to cover cost of postage 75c. Money orders payable at Lowdham, Notts.

Address **EDITORS OF THE "H. A."**
Chilwell Nurseries. LOWDHAM, Notts, England.

500,000 GIANT PANSIES

SMALL OR LARGE PLANTS.

Mixed of the following strains: Mme. Perret, International, Giant Trumardeau, Roemer's Show, Fancy, Five Spot and Ne Plus Ultra Strains, 50c per 100; \$3.00 per 1000.

50,000 DREER'S DOUBLE DAISIES, Snowball, Longfellow, Giant. Same price as Pansies.

5,000 FORGET-ME-NOT, 75c per 100; \$5.00 per 1000.

CARNATIONS, field-grown, no stem rot, F. Hill, Scott, Joost, etc., \$3.00 per 100.

VINCA, VARIEGATED AND GREEN, field clumps, \$5.00 per 100.

ASPARAGUS SPRENGERI, 2-inch, strong, \$2.00 per 100.

ASPARAGUS PLUMOSUS, 3-inch, strong, \$5.00 per 100.

BYER BROS., CHAMBERSBURG, PA.

Please mention the American Florist when writing.

Geraniums.

Unrooted cuttings, S. A. Nutt, Jean Vlaud, La Favorite and Clyde, \$10 per 1000; 2 1/2-inch, \$20.00 per 1000.

ASPARAGUS PLUMOSUS NANUS, 2 1/2-inch, fine for dishes, \$5.00 per 100; \$40.00 per 1000. ASPARAGUS SPRENGERI, field-grown, \$3 and \$5 per 100.

SMALL FERNS, for dishes, in 6 best varieties, at \$3.00 per 100; \$25.00 per 1000.

BOSTON FERNS, from bench, fine plants, fit for 4, 5 and 6-inch pots at \$15, \$20 and \$25 per 100; 2 1/2-inch, \$3.00 per 100; \$25.00 per 1000.

CHRISTMAS PEPPERS, 4-inch, \$5.00 per 100.

ADIANTUM CUNEATUM, 4-inch, \$6.00 per 100.

CASH PLEASE.

Carl Hagenburger, W. Mentor, Ohio,

Please mention the American Florist when writing.

Boston Ferns 2,500 fine bushy plants from bench, fit for 4, 5 and 6-inch, \$10 per 100. This bargain to make room quick.
PRIMULA OBCONICA, GRAND., ALBA AND ROSEA, will make fine 4-inch, some in bloom, \$2 per 100; \$18 per 1000.
UMBRELLA PLANTS, 2-inch, fit for 4-in., \$1.50 per 100.
CHRISTMAS PEPPERS OR CHERRY, 2 1/2-inch, fit for 4-inch, \$1.50 per 100. CASH.

Calif'nia

ASPARAGUS PLUMOSUS,
Extra fine 3 1/2-inch stock, \$1.00 per 100; \$35.00 per 1000. 4 1/2-inch, \$8.00 per 100.

EXPRESS PREPAID.

Pansy Seed, 1902 Giant of California, \$4.00 per ounce, 1/4 ounce at same rate.

FIELD-GROWN CARNATIONS,
QUEEN LOUISE..... \$7.00 per 100
MERMAID..... 6.00 per 100

LOOMIS FLORAL CO., Loomis, Cal.

Please mention the American Florist when writing.

Baltimore.

CLUB SPENDS A DELIGHTFUL DAY AT THE VINCENT PLACE.—ACRES OF PLANTS.—WONDERFUL GARDENS.—A DAHLIA SHOW.

The members of the Gardeners' Club were given an outing on September 17, by invitation of Richard Vincent, Jr., & Sons to inspect their extensive establishment at White Marsh, Md. Mr. Vincent is the club's vice-president and one of the most active florists in the state. A special train and a most sumptuous repast were provided and over 125 florists, with their ladies, participated in the excursion. A number of Washingtonians were present. The party reached the White Marsh establishment just in time for dinner, after which the visitors were taken for a tour through the greenhouses and gardens. Especial notice was given the enormous patches of dahlias, caladiums and cannas, of which there were from three to four acres of each. Each guest gathered a bunch of almost every known variety of dahlia; and the floral special train returned to the city at 7 p. m. The visitors were all high in their praise of the splendid establishment. The careful, thorough and practical method of preparation and culture in all branches of work were especially commended. Among the Washingtonians were Messrs. Wm. F. Gude and A. Gude and Thos. H. White and F. H. Blodgett, of College Park, near Washington.

On Monday, September 22, the Gardeners' Club held a free dahlia show at the Royal Arcanum Hall, the same as last year. The Messrs. Vincent sent from 3,000 to 4,000 specimen blooms, which alone were enough to insure the success of the exhibition. On the following morning the flowers were distributed among the several hospitals of the city.

C. H. Latrobe, for many years connected with park work in Baltimore and until recently general superintendent of parks, died last week.

ROCHESTER, N. H.—Otis & Corson have dissolved partnership. The business will hereafter be conducted by E. A. Corson.

2,000 ROSES

Brides and Maids, \$3.00 per 100.

Beautiful strong plants in 3½ in. pots, 8 to 12-inch tops and in perfect condition. Prompt shipment. Cash please.

J. T. LOVETT, Little Silver, N. J.

Orchids!



Arrived in fine condition: CATTLEYA TRIANÆ. The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs....

\$2.00 Per Year. Sample Copies Free.
Liberal terms to florists who take subscriptions.

THE GARDENING CO. MONON BUILDING,
Chicago, Ill., U.S.A.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.

PALMS.

KENTIA BELMOREANA, 2½-inch pots, \$8.00 per 100.
" " 3-inch pots, \$15.00 per 100.
" " 24 to 28 in., fine bushy plants, \$1.25 each; \$15.00 per doz.
" " 30 to 32 in., perfect condition, \$1.75 each; \$20.00 per doz.
ARECA LUTESCENS, 3-inch pots, (3 plants in pot), \$12.00 per 100.
" " 6-inch pots, (3 plants in pot), 24 inches high, \$70.00 per 100.
CYCAS REVOLUTA, at 60c, \$1.00, \$1.25, \$1.50 and \$2.00 each.

FERNS from 2½-inch pots.

PTERIS Adiantoides, Pteris Cretica Albo-Lineata, Pteris Alexandræ, Pteris Ouvrardi, Pteris Serrulata, each, \$2.50 per 100.
ONYCHIUM JAPONICUM, \$3.00 per 100.
ADIANTUM PUBESCENS, \$3.00 per 100.
Good assortment of FERNS, our selection of varieties, \$20.00 per 1000.

ASPARAGUS.

PLUMOSUS, 2½-inch pots, \$4.00 per 100; 3-inch pots, \$6.00 per 100.
SPRENGERI, 2-inch pots, \$2.50 per 100; 2½-inch pots, \$3.00 per 100.
DRACÆNA GODSEFFIANA, 3-inch pots, \$1.50 per dozen.
MARANTA MASSANGIANA, 2½-inch pots, \$3.00 per 100.

A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
KENTIA Belmoreana and Forsteriana, extra clean and well grown plants, 2½, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
REX BECONIA, 2 and 3-inch, \$4 and \$6 per 100.
BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.
FERN, Cordata Compacta, 2 and 3-inch, \$4 and \$10 per 100.
ASPARAGUS Plumosus, 2-inch, \$5; 3-inch, \$8 Sprengeri, 2 inch \$3; 3 inch, \$5 per 100.
DRACÆNA INDIVISA, 4, 5-in., \$10, \$25 per 100.
ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100.
SMILAX, 2 inch, \$1.00 per 100.
CAMPBELL VIOLETS, 3-inch, \$4.00 per 100.
GERANIUMS, rooted cuttings, standard varieties: your choice \$1.25, my choice \$1.50 per 100.
VINCA VAR., 3-inch, \$4.00 per 100.
CINERARIA, 2-inch, \$2.00 per 100.
Chinese Primrose, 2-in., \$3; 3-inch, \$5 per 100.
Cash or C. O. D.
GEO. M. EMMANS, NEWTON, N. J.

Asparagus.

50,000 Asparagus Plumosus Nanus, extra strong bright clean plants, 2½-inch, \$3.50 per 100.
Sprengeri, fine strong plants, 2½-inch, \$3.00 per 100.
Boston Ferns, 2½-inch, \$3.00 per 100; 8-inch, 75c each.
25 Fine Rubber Plants, 3 feet, \$1.00 each. The lot for \$20.00.

CASH PLEASE.

A. J. BALDWIN, NEWARK, O.

3,000 Dbl. Pæonias

Dark Rose, \$8 per 100; \$70 per 1000.

3,000 CRIMSON RAMBLERS \$8.00 to \$12.00 per 100.

Chas. Lenker, Freeport, L. I., N. Y.

SPECIAL ROUND-TRIP EXCURSION RATES TO NEW YORK

via Nickel Plate Road. Tickets on sale October 3rd to 6th inclusive, good leaving New York not later than October 14th. Address John Y. Cahalan, General Agent, 113 Adams St., Chicago, for reservation of sleeping car space and other information. 50

GERANIUM BARGAIN

Two-inch pot plants, some of them had to be topped but they will all make good plants and are certainly a bargain at \$1.50 per 100.

20,000 Rooted Cuttings

Ready now, fine strong cuttings, all correctly labeled, at \$1.50 per 100 or \$12.50 per 1000. Jean Viaud and M. de Castellan, \$2.50 per 100 or \$20.00 per 1000.

PANSIES

The kind that make money for you when they come into bloom, per 100 by mail, 75c; per 1000 by express, \$4.00.

BONE MEAL

Best for Carnations, Roses and general use, \$3.50 per 200 lb. bag; \$32.50 per ton.

ALBERT M. HERR, Lancaster, Pa.

Primroses

Per 100
CHINESE, single, mixed, 2½-in. pot, strong \$2.00
ASPARAGUS SPRENGERI, 2½-inch pots 2.00
PLUMOSUS, " strong 3.00
CINERARIAS, 2-inch pots..... 2.00
NARCISSUS, Paper White Grandiflora..... 1.00
PANSY PLANTS..... \$3.00 per 1000; .60
CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

READ THIS AND SEND FOR

VARIEGATED VINCAS, large, bushy, field-grown plants at \$5.00 per 100; small, \$3.00 per 100.

Customers are all asking for the new winter-blooming **COLEUS THYRSOIDEUS**, rooted cuttings, \$3 per 100. **FORGET-ME-NOTS**, **BABY PRIMROSES** and **YELLOW DAISIES** at \$1.00 per 100.

J. A. WIBE, Box 125, Downers Grove, Ill.

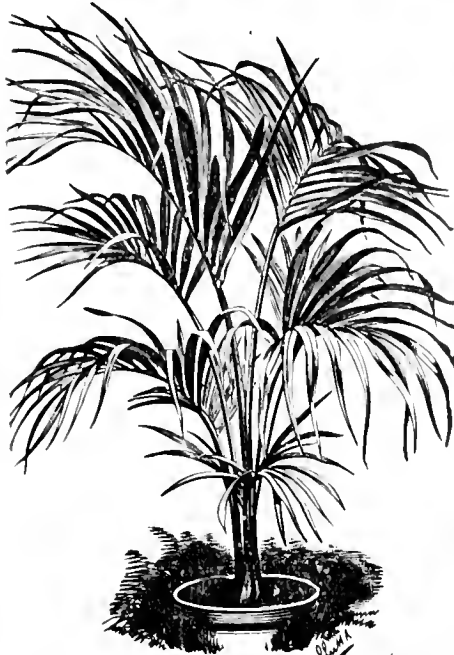
Orders booked now—delivery in September—for my Nephrolepis Fern

"ANNA FOSTER"

Small plants, \$25.00 per 100; larger plants prices on application.
BOSTON FERN now ready at \$25 and \$50 per 100.
L. H. FOSTER, 45 King St., Dorchester, Mass.

DREER'S PALMS.

Now is the time to secure your supply of Palms for the coming season's trade. All the varieties and sizes here offered are in excellent condition and of good value.



KENTIA.

ARECA LUTESCENS.

2-inch pots, 8 to 10 in. high, 1 plant in pot.....	Doz.	100
3-inch pots, 10 to 12 in. high, 2 plants in pot.....	8.75	\$ 6.00
4-inch pots, 15 to 18 in. high, 3 plants in pot.....	1.00	8.00
5-inch pots, 18 in. high, 3 plants in pot.....	2.50	20.00
6-inch pots, 24 to 26 in. high, 5 to 6 plants in pot.....	5.00	40.00
8-inch pots, 30 to 36 in. high, 3 plants in pot.....	9.00	75.00
10-inch pots, 42 to 45 in. high, 3 plants in pot.....	12.00	100.00
	Each	Doz.
	83.00	\$36.00
	5.00	63.00

COCOS WEDDELIANA.

A good lot of 3-inch pots, 10 to 12 inches high. \$2.00 per dozen; \$15.00 per 100.

KENTIA BELMOREANA.

2 1/4-inch pots, 4 leaves, 8 to 10 in. high.....	Doz.	100	1000
3-inch pots, 5 leaves, 12 to 15 in. high.....	\$1.50	\$12.00	\$100.00
4-inch pots, 5 to 6 leaves, 15 to 18 in. high.....	2.50	20.00	180.00
5-inch pots, 6 leaves, 18 to 20 in. high.....	4.50	35.00	300.00
6-inch pots, 6 to 7 leaves, 18 to 20 in. high.....	7.50	60.00	
	9.00	75.00	
	Each.	Doz.	
6-inch pots, 5 to 6 leaves, 24 in. high.....		\$1.00	\$12.00
6-inch pots, 6 leaves, 24 to 28 in. high.....		1.25	15.00
6-inch pots, 6 leaves, 28 to 30 in. high.....		1.50	18.00
7-inch pots, 6 to 7 leaves, 30 to 32 in. high.....		2.00	24.00
8-inch pots, 6 to 7 leaves, 36 to 42 in. high.....		2.50	30.00

KENTIA FORSTERIANA.

2 1/4-inch pots, 4 leaves, 8 to 10 in. high.....	Doz.	100	1000
3-inch pots, 5 leaves, 12 to 15 in. high.....	\$1.50	\$12.00	\$100.00
4-inch pots, 5 to 6 leaves, 15 to 18 in. high.....	2.50	20.00	180.00
	4.50	35.00	300.00
	Each.	Doz.	
6-inch pots, 5 to 6 leaves, 24 to 26 in. high.....		\$1.00	\$12.00
6-inch pots, 5 to 6 leaves, 30 in. high.....		1.25	15.00
6-inch pots, 5 to 6 leaves, 30 to 36 in. high.....		1.50	18.00
7-inch pots, 6 leaves, 30 to 36 in. high.....		2.00	24.00
8-inch pots, 6 leaves, 42 in. high.....		2.50	30.00
8-inch pots, 6 leaves, 42 to 48 in. high.....		3.50	42.00
8-inch pots, 6 leaves, 48 in. high.....		4.00	48.00
9-inch pots, 6 to 7 leaves, 5 feet in height.....		7.50	

PHOENIX RECLINATA.

2-inch pots.....	Doz.	100
3-inch pots.....	8.75	\$6.00
3-inch pots.....	1.25	10.00
4-inch pots.....	3.00	25.00

PHOENIX RUPICOLA.

2-inch pots.....	Doz.	100
3-inch pots.....	\$1.00	\$8.00
3-inch pots.....	1.50	12.00
4-inch pots.....	4.00	30.00

PTYCHOSPERMA ALEXANDRAE.

A fine lot of strong 5-inch pots of exceptional value 24 inches high \$3.00 per dozen; \$25.00 per 100.

THE PIERSON FERN, (Nephrolepis Piersoni).

We are now booking orders for spring delivery of this, the most valuable fern introduced in many years, at \$9.00 per dozen; 50 plants at 60c each; 100 plants at 50c each; 50 plants at 45c each; 100 plants at 40c each.

MADE-UP KENTIAS.

3 plants in a 3-inch pot, 15 in. high.....	Doz.	100
3 to 4 plants in a 7-inch pot, 36 to 40 in. high.....	\$4.50	\$35.00
4 plants in a 9-inch pot, 42 to 48 in. high.....	2.50 each	
	5.00 each	

LATANIA BORBONICA.

2 1/4-inch pots, 4 to 5 leaves.....	Doz.	100	1000
3-inch pots, 5 to 6 leaves.....	\$.60	\$5.00	\$40.00
4-inch pots, 5 to 6 leaves, 15 in. high.....	1.00	8.00	75.00
4-inch pots, 5 to 6 leaves, 15 in. high.....	2.50	20.00	
6-inch pots, 5 to 6 leaves, 18 to 20 in. high.....	9.00	75.00	
	Each.	Doz.	
8-inch pots, 6 to 7 leaves, 24 in. high.....	\$1.50	\$18.00	
8-inch pots, 6 to 7 leaves, 30 in. high.....	2.00	24.00	
8-inch pots, 7 to 8 leaves, 36 in. high.....	2.50	30.00	

PHOENIX CANARIENSIS.

6-inch pots, 24 to 26 in. high, bushy, stocky plants.....	Each.	\$1.25
7-inch pots, 26 to 28 in. high, bushy, stocky plants.....		1.75
8-inch pots, 28 to 30 in. high, bushy, stocky plants.....		2.00

For the most complete line of General Florists' Stock see our Quarterly Wholesale List Issued September 1.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA PA.

Pansies Worth Raising.

Seed, 3/8 oz.....\$1.00
Plants, per 1000.....4.00

FERNS...

FOR JARDINIERS.

Assorted from flats, \$1.50 per 100 clumps.
Assorted from pots, \$3.00 per 100 plants.

BOSTON FERNS

From \$15.00 to \$50.00 per 100.

RUBBER PLANTS, \$30.00 per 100.

ASPARAGUS PLUMOSUS

\$5.00 to \$10.00 per 100.

ALL A NO. 1 STOCK.

Sample lots for \$2.00 worth at above rates.
All plants f. o. b. express here.

CASH WITH ORDER.

CHR. SOLTAU,

199 GRANT AVENUE, JERSEY CITY, N. J.

Field-Grown ASPARAGUS SPRENGERI

Nice clumps at \$3.00 and \$5.00 per 100.

C. WINTERICH, DEFIANCE, OHIO.



ARECA LUTESCENS, per doz.—2 1/4-inch, 75c; 3, \$1; 3 1/2, \$2; 4, \$3.
KENTIA BELMOREANA, per doz.—2 1/4-inch, \$1.50; 3-inch, \$2; 3 1/2-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20; 6-inch, \$18
KENTIA FORSTERIANA, per doz.—2 1/4-inch, \$1.50; 3-inch, \$2.00; 3 1/2-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20
LATANIA BORBONICA, per doz.—2 1/4-inch, 60c; 3, \$1; 6, \$7.20; 7, \$10.
PANDANUS VEITCHII, per doz.—5-in., \$12; 6 in., \$18; 8-in., \$42.
PANDANUS UTILIS, 4-in., \$3 per doz.
NEPHROLEPIS BOSTONIENSIS, per doz.—5-in., \$3; 6-in., \$5; 7-in., \$9; 8-in., \$12; 9-in., \$18; 10-in., \$24
ASPARAGUS PLUMOSUS NANUS, per 100—2-in., \$1; 3-in., \$8; 4, \$12.
ASPARAGUS SPRENGERI, per 100—4-inch, \$12.
PHOENIX CANARIENSIS, 6-inch, \$6 per doz.
SEAFORTHIA ELEGANS, 5-inch, \$5 per doz.
DACAENA INDIVISA, 4-in., \$2; 5-in., \$3; 6, \$5; strong, \$3 per doz.
ADIANUM, 2 in., \$4; 3-in., \$8 per 100. Small ferns for dishes \$3 per 100; \$25 per 1000.
FERN BALLS, well furnished with leaves, \$3 to \$5 per doz.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

Cyclamen Giganteum!

Extra Strong, 3-inch, \$5.00 per 100.
Cineraria Grandiflora, finest dwarf, \$2.00 per 100; 30 for \$5.00.
Chinese Primrose, \$2.00 per 100. Cash.

J. W. MILLER, HATTON, PA.

PAEONIAS FOR FALL...

10 distinct, best kinds, \$10.00 per 100.
Poets Narcissus, dbl. & sgl., home grown, \$5 a 1000.
Clematis, large flowering, \$2.50 per doz.; \$16 per 100.

SMILAX

A few hundred fine heavy plants, one year, \$3 per 100

F. A. BALLER, Bloomington, Ill.

St. Paul.

TRADE STARTS WELL AND PROMISES A BUSY SEASON.—LOW PRICES TO BE DEPLORED.—THE FIRST CHRYSANTHEMUMS.

Fall trade opens up very good and promises much for the future. Roses are becoming quite plentiful and are daily improving in quality. The short sightedness of some in the business in selling roses at \$1 per dozen at retail, thereby forcing others to sell at the same figure, is to be deplored. With coal at \$4.55 per ton, labor scarce and high, lumber, glass and pipe at high tide, florists should maintain good prices for their products. Carnations are daily increasing in quantity but are not yet equal to the demand. Two killing frosts have cut down outdoor stock, though a few good asters are still coming in. L. L. May & Company have cut the first chrysanthemums of the season, Fitzwygram, which were in September 19. FELIX.

Springfield, Mass.

BUSINESS ENLIVENED BY WEDDINGS AND MUCH FUNERAL WORK.—SOME SPLENDID DAHLIAS.

Trade the past two weeks has been good, wedding decorations and quite a demand for funeral work. The plant trade is picking up some. Roses and carnations are more plentiful but nothing extra in quality. Violets have not made their appearance yet but a few good orchids are to be seen in the stores. Asters are about done for. They have been very good in this section, with not so much disease as in former years. The weather has been good, giving us all a chance to house stock.

Fairfield, the State street florist, has remodeled his store and put in a neat conservatory in the rear, making a good showing of palms and so forth.

L. D. Robinson is to be congratulated on his success with dahlias. He exhibited 150 varieties at the Amherst fall show, taking first in every section. A. B.

Carnation

Plants, Strong and Healthy.

PORTIA, SCOTT, DAYBREAK, PERU. \$35.00 per 1000.

McGOWAN, very fine bushy plants, \$30.00 per 1000.

FISHER, \$25.00 per 1000.

WM. MURPHY, Wholesale Carnation Grower, STA. F. CINCINNATI, O.
Please mention the American Florist when writing.

CARNATIONS

Field-grown, strong, healthy plants.

NORWAY.....\$5.00 per 100
MARQUIS..... 5.00 per 100

A. C. CANFIELD.

State St. and South Grand Ave., SPRINGFIELD, ILL.

All The Best CARNATIONS

Orders booked now for fall delivery.

SEND FOR PRICES.

Rotted cuttings and young plants all out.

GEO. HANCOCK & SON,
CRAND HAVEN, MICH.

Please mention the American Florist when writing.

CARNATIONS!

FINE, LARGE, HEALTHY FIELD-GROWN PLANTS.

	Per 100	Per 1000		Per 100	Per 1000
Flora Hill.....	\$7.00	\$60.00	Marquis	\$5.00	\$40.00
White Cloud.....	6.00	50.00	Guardian Angel	5.00	45.00
Norway.....	6.00	50.00	Prosperity.....	5.00	40.00

WIETOR BROS., 51 Wabash Ave., Chicago.

100,000 Field-Grown CARNATION PLANTS

Plants now are in first-class condition. We have no stem rot.

BUTTERCUP, HOOSIER MAID,	LIBERTY, PROSPERITY, 1st, \$7.00 per 100.	DOROTHY, NORWAY, 2d, \$5.00 per 100.	SUNBEAM, NIDIA,
COMEZ, ARMAZINDY,	PORTIA, CROCKER,	VICTOR, MARQUIS,	1st, \$5.00 per 100 2d 4.00 per 100
LAWSON, JOOST,	COV. ROOSEVELT, MORNING GLORY,	FLORA HILL,	2nd, \$6.00 per 100 2nd, \$4.00 per 100

J. L. DILLON, BLOOMSBURG, PA.

Field-Grown CARNATIONS

Fine, Strong, Healthy Plants.

	Per 100	Per 1000
PROSPERITY.....	\$4.00	\$35.00
GENEVIEVE LORD...	4.00	35.00

PETER REINBERG,
51 Wabash Ave., Chicago.

CARNATIONS

Fine field-grown plants, Marquis and Scott carnations, elegant bushy stock, many plants 12-15 in. across. \$5 per 100; \$45 per 1000. Splendid value.

	ROSES.	ROSES.
3-inch Brides and Golden Gates ..	\$4.00	\$35.00
3-inch Meteors.....	2.50	20.00
2-inch Brides and Maids.....	2.00	17.50

Fine strong plants, worth a good deal more money
W. H. GULLETT & SONS, LINCOLN, ILL.

CARNATIONS

	Field-grown plants, strong and healthy.
NORWAY	\$6.00 per hundred
G. H. CRANE.....	6.00 per hundred
FLORA HILL.....	5.00 per hundred
AMERICA.....	5.00 per hundred
ETHEL CROCKER.....	4.00 per hundred

Write for special price on thousand lots.
JOHN G. ELLINGER, Walnut and 48th Sts., PHILA.

FIELD GROWN Carnations

150 The Marquis, 200 Gen. Gomez, 200 Ethel Crocker, 200 Daybreak, 400 Frances Joost, 100 White Cloud, 100 Bon Ton, \$5 per 100.

FARQUHAR VIOLETS, 2 1/2-in. pots, \$3.00 per 100.
Cash with order.

CHAS. H. GREEN, Spencer, Mass.

20,000 Healthy Strong Field-Grown Carnation Plants

All cuttings taken from flowering stems: 15,000 Lizzie McGowan, \$3.00 per 100 3,000 sport of McGowan, white, more dwarf and robust, \$3.00 per 100. 3,000 Russell, good pink, moves easily, \$4.00 per 100.

AARON KEITER, Parker Ford, Pa.
Please mention the American Florist when writing.

CARNATIONS

Field-Grown Plants, Strong and Healthy

850 FLORA HILL.....	\$5.00 per 100
500 GLACIER.....	5.00 "
250 ETHEL CROCKER.....	4.00 "
87 GUARDIAN ANGEL ..	5.00 "
100 MORNING GLORY.....	5.00 "
75 GOMEZ.....	4.00 "
100 MELBA.....	4.00 "
100 JAMES DEAN.....	4.00 "
100 MRS. CHAPMAN.....	4.00 "
50 ELDORADO.....	4.00 "

Grown on high soil, perfectly healthy.

CENTRAL MICHIGAN NURSERY,
Kalamazoo, Mich.

MARQUIS Carnations

2,000 extra fine field-grown Marquis at \$5.00.

L. E. MARQUISEE, Syracuse, N. Y.

HEALTHY FIELD-GROWN CARNATIONS.

	Per 100	Per 1000
JOOST	\$3.00	\$25.00
SCOTT	3.00	25.00
HILL, medium size	3.50	30.00

250 at 1000 rate. Cash or C. O. D.

WM. FLUEGGE, 2791 N. Leavitt St., Chicago.

HERRON....

Carnation Grower,

OLEAN, N. Y.

Please mention the American Florist when writing.

CARNATIONS FOR SALE or EXCHANGE.

McGowan, Scott, Kitty Clover, Tidal Wave and a pink seedling very light in color and much better variety than Scott ever was. All plants in the shape of. All \$4.00 per 100, except seedling which is \$6.50. Will exchange for violets, double or single. As regards Pinnosus, or good scarlet Carnation. If anything else to exchange write.

E. WICKERSHAM & CO., POTTSWOWN, PA.
Please mention the American Florist when writing.

LOOK HERE

MISCELLANEOUS SURPLUS STOCK. Prices by the 100.

Asparagus Plumosus, 2 1/2-inch, larger than any 3-inch stock on the market, \$5.
 Abutilon Savitzii, 2 1/2-inch, very fine stock, \$6.
 Begonia Rex strong plants and very fine varieties, 2 1/2-inch, \$6.00.
 Begonia Metallica, 3 1/2-inch, very large, \$8.00 and \$10.00.
 English Ivy, 2 1/2-inch, \$3.00. German Ivy, 2 1/2-inch, \$2.00.

THE FOLLOWING CAN BE SHIPPED ON RECEIPT OF ORDER:
GERANIUMS Alphonse Riccard, Beate Poitevine, Bronze, Double Grant, Freak of Nature, Mme. Sallerot, S. A. Nutt, 2 1/2-inch, very strong and large at \$2.50 per 100; \$20.00 per 1000. Jean Viaud, Dryden, Vera Vend, 2 1/2-inch, \$3.00 per 100; \$25.00 per 1000. Mme. Sallerot, 3-inch, very stocky, \$5.00 per 100. **ROOTED CUTTINGS** Alphonse Riccard Beate Poitevine, Dbl. Grant, E. G. Hill La Favorite, Peter Crozy, S. A. Nutt \$15 per 1000. Jean Viaud, Dryden, Vera Vend, \$2 per 100; \$17.50 per 1000.

Lemon Verbena, 3-inch, very fine and stocky plants, \$8.00 and \$10.00.
 Stock, Princess Alice, 3-inch, strong, \$5.00.
 Snowcrest Daisies, in clumps, \$4.00, \$6.00, \$8.00 and \$10.00. Terms Cash or C. O. D.
 Any of the above are guaranteed to be fine, clean stock.

GREENE & UNDERHILL, Watertown, N. Y.

Miss Louise Faber

The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet to 6 inches to 4 feet. Flowers are of a beautiful pink, similar to a well colored Bride'smaid rose and average 2 1/2 inches. Continuous bloomer when once started and only never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for Jan. delivery.

FICK & FABER, SAN MATEO, CAL.

HEALTHY, FIELD-GROWN

CARNATION Plants.

2,500 JOOST \$3.00 per 100; \$25.00 per 1000
 200 CRANE 4.00 per 100.
 500 at 1000 rate. Cash with order.

J. A. Budlong, Winamac Station, Chicago, Ill.

1,500 PORTIA, 500 SCOTT,

Field-Grown Carnation plants. Extra fine stock. \$4.00 per 100.

JOHN MUNO, 51 Wabash Avenue, CHICAGO.

5,000 CARNATIONS

Extra strong plants from field. Maceo, Gomez, Melba and America, \$5 per 100, f.o.b.

LOUIS COUCHE, 72d and Haverford Sts. PHILADELPHIA, PA.

50,000 FIELD-GROWN

CARNATION PLANTS.

Extra fine stock. Write for prices at once. Personal attention given orders.

Un on Street Greenhouse Co., Geneva, N. Y.

New Scarlet "ORIOLE" Carnation....

Strong and healthy field plants, \$12.00 per hundred; \$100 per thousand.

JOHN B. GOETZ, Saginaw, W. S., Mich.

Carnations, Geraniums

Cannas, Etc. Prices quoted upon application.

The Cottage Gardens, Queens, L. I.

S. S. SKIDELSKY,

708 North 16th St., Philadelphia, Pa.

Please mention the American Florist when writing.

CARNATIONS

FIELD-GROWN PLANTS.

	Per doz	Per 100
CRESSBROOK, extra strong 1st	\$3.00	\$15.00
early propagated, 2nd	2.50	12.00
NORWAY extra	1.50	8.00
PROSPERITY	1.50	8.00
GENEVIEVE LORD	1.00	7.00
EGYPT	1.00	7.00
MERMAID	1.00	5.00
GOETHE	1.00	5.00
BEAU IDEAL	1.00	5.00

The above are all in good shape, ready for immediate shipment. 25 plants of one variety at 100 rate.

Discount on large orders.

Order quick; stock is going fast.

H. WEBER & SONS, Oakland, Md.

Mushroom Spawn



Frequent importations from England. Always fresh and lively.

CARNATIONS

	100	1000	Portia	100	1000
McGowan	\$3.50	\$30.00	Scott	\$4.00	\$35.00
Crane	5.00	40.00	Scott	4.00	35.00
Crocker	5.00	40.00	Eldorado	4.00	35.00
Norway	5.00		Daybreak	4.00	
Joost	4.00		Victor	4.00	

J. J. STYER, Concordville, Pa.

CARNATIONS

1,500 SCOTT \$3 00 per 100
 1,500 CARTELEGE.....

VIOLETS

2,000 MARIE LOUISE..... \$2.50 per 100
 1,000 CALIFORNIA.....

ROSES

300 BRIDESMAIDS \$2.00 per 100
 300 BRIDES, 3-inch.....

Stock all guaranteed First-class. CASH WITH ORDER.

Howard P. Kleinhans, Easton, Pa.

CARNATIONS

Fine Plants, Second Size.

300 WM. SCOTT	\$2.50 per 100
400 MRS. CHAPMAN	2.50 "
1500 STGS. SMILAX, 7 ft. long	1.25 per doz

If not suited you get your money back.

The Stever Floral Co., Grandville, Mich.

Surplus Stock of Field-Grown Carnation Plants.

Extra strong stock, \$3 per 100, SCOTT, MEYER, ELDORADO.

J. B. HEISS, The Exotic Nurseries, DAYTON, OHIO.

Please mention the American Florist when writing.

CARNATIONS

Field-Grown Plants.

	Per 100	Per 1000
PROSPERITY	\$5 00	\$45.00
MARQUIS	5.00	45.00
EVANSTON	5.00	45.00
JOOST	5.00	45.00

Strong, Healthy Plants.

GEO. REINBERG, 51 Wabash Ave. CHICAGO.

Please mention the American Florist when writing.

Buy your wants in Field-Grown

CARNATIONS

to fill your houses now, so you will have lots of Carnations this Winter. Following varieties:
 3,500 Daybreak, 100 Melba,
 1,000 White Cloud, 100 Hoosier Maid,
 3,500 Marquis, 100 Elm City,
 3,000 Ethel Crocker, 425 White Daybreak,
 1,000 Joost, 250 Alaska,
 1,600 (deep pink) sport of 300 Flora Hill,
 400 Fisher, (Scott) 50 Bradt,
 500 Gen. Lord, 50 Gov. Griggs,
 300 Triumph, 250 Crane, 50 Thos. Lawson.
 Fine, strong field-grown plants, \$40.00 per 1000.
 Terms, Cash with order from unknown parties.

Wm. F. Kasting, 481 Washington Street, Buffalo, N. Y.

CARNATIONS

FIELD PLANTS,

Large, Vigorous, Healthy.

Norway, Marquis, \$6 00 per 100;
 Glacier, Joost, Mary Wood, Nidia (variegated), Flora Hill, \$5 per 100;
 Crocker, Cardinal and several others, \$4 00 per 100.

A. C. BROWN, Springfield, Ill.

Please mention the American Florist when writing.

Respond Quick!

If you want these fine field-grown CARNATIONS. Will close them out for spot cash at \$3 per 100.
 100 Roosevelt, 200 Peru, 200 Crocker, 200 Flora Hill, 200 Avondale, 100 Marquis, 100 Gomez.
 Will exchange for a few Violets.

W. W. COLES, Kokomo, Ind.

CARNATIONS

700 Freedom (good white), 500 Ethel Crocker, 175 Daybreak, 75 Argyle, 25 Glacier and 25 Peru, clean, stocky plants, at \$3.50 per 100. \$45 takes the lot.

E. H. ALDERMAN, Middlefield, Mass.
 Please mention the American Florist when writing.

Lowell, Mass.

WEATHER CUTS DOWN OUTDOOR SUPPLIES AND INJURES GREENHOUSE STOCK.—A VARIETY OF TRADE NOTES.

The weather has about demolished the aster crop and is the cause of considerable mildew in the greenhouses, especially where the supply of coal is short. The supply of carnations, which was steadily on the gain, has been cut down by the dull weather, but of roses there are more than enough to meet demands. Some Beauties of good quality, both in flower and foliage, are to be seen, but at present there is no great demand for them. A large bunch of these roses standing on a mirror surrounded by a window full of ferns made an attractive display at Pat-ten's last Saturday.

Chrysanthemums and violets have not made their appearance here as yet, but some of the growers are hustling to get the credit of bringing in the first supply of these flowers.

M. G. McManamon, on Prescott street, is making a great show of yellow dahlias in his window. He has booked many orders for roots for spring delivery.

Boston ferns are a feature of many window displays. They are selling briskly.

S. S. Skidelsky, of Philadelphia, was in town last week looking as radiant as ever.

Walter Morse has gone fishing and hunting down in the Provinces.

Business is away off color for this time of year. A. M.

Newport, R. I.

A VARIETY OF PERSONAL DOINGS AND TRADE JOTTINGS OF INTEREST.

The visit of the Russian Grand Duke Boris brought many orders for floral decorations on the most elaborate scale.

The beetle is again so active that citizens are signing a petition to the city for the preservation of trees.

John Baumgartner, formerly of New Jersey, is now gardener for D. B. Fearing. Daniel J. Coughlin is another new man here, being gardener for E. R. Morse.

Allen Jenkins is filling the position of gardener at I. T. Berwind's estate.

The coal dealers here are short of coal, some dealers being entirely out. C. J. M.

WASHINGTON, PA.—Lloyd Swarthout is seriously ill of typhoid fever.

Boston Ferns.

We are headquarters in the West for them. Write us about 2 1/2, 3, 4, 5, 6, 7, 8 and 10-in. sizes.

ASPARAGUS PLUMOSUS AND SPRENGERI, 2 1/2, 3, 4 and 5-inch.

SMILAX, 2 and 3-inch.

A lot of 5-in. HIBISCUS to close at \$1.50 per doz.

CINERARIAS, in 2 1/2 and 3-inch.

GERANIUMS, rooted cuttings now ready. Write

GEO. A. KUHL, Pekin, Ill.

BEGONIA GLOIRE DE LORRAINE,
Begonia Light Pink Lorraine,
 For July and Later Delivery,
 \$15.00 per 100; \$140.00 per 1000.
Edwin Lonsdale, Wyndmoor, near
Chestnut Hill, Pa.

California Seeds '02

ASPARAGUS SPRENGERI, \$1.50 per 1000; \$6 per 5,000; \$10 per 10,000.
 PANSY. Giant Flowering, Mixed, trade pkt., 10c; 1 oz, \$1; per lb., \$10.
 BURBANK'S SHASTA DAISY, 100 seeds, 25c; 1000 seeds, \$2; per oz., \$18.

PLANTS. PLANTS.

ASPARAGUS SPRENGERI, from flats, \$1.00 per 100; \$7.50 per 1000; \$25.00 per 5,000.
 ASPARAGUS PLUMOSUS NANUS, nice 3 1/2-inch, \$6.00 per 100.
 BURBANK'S SHASTA DAISY, the coming cut flower, nice to follow 'mums, 2-inch; \$10.00 per 100; 3 1/2-inch, in bloom, \$15.00 per 100.

CALIFORNIA CARNATION CO., LOOMIS, CAL.

Princess of Wales and Lady Campbell

VIOLET PLANTS.

Strong field-grown clumps from sand struck Cuttings, \$5.00 per 100; \$35.00 per 1000; Samples 10 cents.

The Albert H. Brown Co., Westboro, Mass.

Look Out

For L. H. Campbell VIOLET Clumps, field-grown, clean. Cash price, \$3.00 per 100.

CALIFORNIA VIOLETS, 3-inch, \$2.00 per 100.

30,000 CANNAS, for fall. By the violet grower

A. B. Campbell, Cochranville, Pa.

VIOLETS

Imperial, field-grown, \$3.50 per 100, medium plants. Imperial, M. Louise, Swanley White, 3-inch pnts, \$3.75 per 100; \$35.00 per 1000. Lady Campbell, \$3.50 per 100; \$30.00 per 1000.

SMILAX 3-inch, fine plants, \$2.00 per 100 to close out.

CRABB & HUNTER, GRAND RAPIDS, MICH.

GRAND VIOLETS RAPIDS

Field-grown Lady Campbell and Swanley White at \$4.00 per 100. \$35.00 per 1000. Sample 10c. Cash with order.

ELI CROSS, GRAND RAPIDS, MICH.

VIOLETS.

Large field-grown clumps, L. H. Campbell, Imperial, Princess of Wales and California, \$5.00 per 100; \$45.00 per 1000.

Christmas Pepper, 3 1/4-inch, ready for 6-inch, \$3.00 per 100.

Parsley, large field-grown clumps, 40c per 100; \$2.50 per 1000.

Smilax, 2 1/4-inch, large bushy plants, \$1 per 100.

J. C. SCHMIDT, BRISTOL, PA.

SPECIALTIES

ROSES, from 3-inch pots. **In Best**
 CARNATIONS, for all delivery, **Varieties**
 CHRYSANTHEMUMS,
 SMILAX, VIOLETS.

Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.

ONE FARE FOR ROUND TRIP

or \$8.50 to Cleveland, O., and return, via Nickel Plate Road, September 26th and 27th, with extended return limit of October 28th by depositing tickets in Cleveland. First-class equipment and service. Three daily trains. Chicago Passenger Station, Harrison St. and 5th Ave. Write John Y. Calahan, General Agent, 113 Adams St., Chicago, for particulars.

SPECIAL Clearing Sale.

To Move Quick, we will offer the following stock, in first-class condition and true to name. If you have any use for the following, don't miss this opportunity.

Ceraniums, S. A. Nutt (the leading bedder), \$1.50 per 100; \$15.00 per 1000. Frances Perkins, Beante Poitevine, Alphonse Riccard, E. G. Hill, \$2.00 per 100; \$18.00 per 1000.

25,000 Smilax, extra strong plants from 2 1/4-inch pots (blue), \$1.00 per 100; \$8.00 per 1000.

10,000 Asp. Sprengeri, strong plants, from 2 1/4-inch pots, \$1.50 per 100; 2 1/2-inch, (blue), \$2.50 per 100. Cash.

The W. T. Buckley Plant Co., Springfield, Ill.

ASPARAGUS SPRENGERI

from Flats, \$1 per 100; \$7.50 per 1000.

PANSY WESTERN GIANT FLOWERING

Trade pkt., 10c; \$2.00 per oz.

ASPARAGUS SPRENGERI

1,000 Seeds, \$1.50.

EXPRESS PREPAID.

WESTERN CARNATION CO.

E. N. FANCHER, Mgr. LOOMIS, CAL.

SPECIAL This Week

20,000 CYCLAMEN PERSICUM SPLENDENS GIGANTEUM,

finest strain in the world, now ready for immediate shipment, extra well grown plants, well budded from 3-inch pots, \$6.00 per 100; \$50.00 per 1000. For 1 1/2-inch pots \$4 per 100; \$30 per 1000. 250 plants at 1000 rate. Satisfaction guaranteed.

PAUL MADER, East Stroudsburg, Pa.

ASPARAGUS Plumosus Nanus

Extra fine 2 1/2-inch, better than some 3-inch, \$3.50 per 100; \$30 per 1000. Extra fine 3-inch, \$5.00 per 100. Sample of either size, 10 cents free by mail. CASH PLEASE.

H. TONG, Wholesale Grower, Ash'abula O.

Violets

Strong field-grown Marie Louise, \$5.00 per hundred. Cash with order.

I. N. KRAMER & SON, Cedar Rapids, Iowa.

**TO KILL ALL
Greenhouse Bugs
USE
"NICOTICIDE"**

Clean and harmless
as Fumigant or Spray.
Ask your seedsman
for it or write to

**The Tobacco Warehousing
and Trading Co.,**
1000 Magnolia Ave., - Louisville, Ky.

**PURE, DRIED
SHEEP MANURE**

In ton or carload lots, for im-
mediate delivery. Address

MONTANA FERTILIZER CO.
Box No. 153. Elgin, Ill.

**The Florists' Hail Ass'n
Pays Losses Promptly.**

Reserve fund \$10,000. For particulars address
JOHN G. ESLER, SADDLE RIVER, N. J.

Sigmund Geller
Importer and Manufacturer of
FLORISTS' SUPPLIES

Looking for Fall Novelties?
LOTS OF THEM ON EXHIBITION.
108 W. 28th Street, New York.

**SOMETHING ENTIRELY NEW.
A Florists' Plate Book.**

150 Plates and nearly 200 varieties for
\$3.50 or three for \$10.00.

You can't do business without it.
VREDENBURG & CO., Rochester, N. Y.

KIFT'S Patent ADJUSTABLE VASE HOLDER

No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$2.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nickelled, with three clasps for 5 to 6-inch pots, each \$1.75

KIFT'S PATENT Rubber Capped FLOWER TUBES, 1 1/2-inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.

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The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

Moller's Deutsche Gartner Zeitung is published weekly and richly illustrated. Subscription \$3.00 per annum, including postage. Sample copies free.

LUDWIG MOLLER, Erfurt, Germany



**MODEL
EXTENSION
CARNATION
SUPPORT**

Made with two or three circles. Endorsed by all the Leading Carnation growers as the best support on the market.

Pat. July 27, '97, May 17, '98

**Prompt Shipment
Guaranteed.**

IGOE BROS.
226 North 9th St.,
BROOKLYN, N. Y.

Miniature Baby Greenhouse



FOR CROWING SMALL PLANTS.

Two Sizes: No. 1. 11 1/4 x 12 1/2 and 11 inches high.
No. 2. 15 x 16 1/2 and 15 1/4 inches high.

Are folded up in compact package of about one cubic foot; weight about 18 pounds.

SMALL OR NO. 1 SIZE		LARGE OR NO. 2 SIZE	
1 house	.... \$ 4.50	1 house	.... \$ 6.50
2 houses	.... 8.50	2 houses	.... 12.50
4 houses	.... 16.50	4 houses	.... 24.00
6 houses	.... 24.00	6 houses	.... 34.50

SIEBRECHT & SON, NEW ROCHELLE, N. Y.

**Nikoteen
Aphis Punk
It Burns**

The most convenient way of applying an insecticide ever yet devised. No pans required—No heating of irons—No trouble—Cannot injure the most sensitive blooms—Very effective. Price 60¢ per box of 12 rolls. All dealers sell it!

Skabcura Dip Co.
St. Louis—Chicago.

Invalid Appliance Co.,
MANUFACTURERS OF
COLUMBIA PLANT TUBS

"The kind that never fall apart."
If your seedsman doesn't handle them, order as direct.

FACTORY AND OFFICE:
150-160 WEDDER ST., CHICAGO.
TELEPHONE NORTH 952.

WE NOW OFFER

"Chemicals"

for making LIQUID COMPOST.
Dry powders all soluble in water. Composts cost less than 25¢ per gal. Correspondence invited.

EASTERN CHEMICAL COMPANY,
620 Atlantic Ave., Boston.

Please mention the American Florist when writing.

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NURSERY SEED FLORISTS' CATALOGUES

87-91 Plymouth Place,
CHICAGO

It is good business policy
.....to mention the

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When you write to an advertiser.

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ENGRAVING & PRINTING**

LIKE MUSHROOMS engraving houses have sprung up all over the country. Engravings are made of every subject, though the horticulturist's needs never receive the careful study as we give. It's a business in itself. We make a specialty of it. Write us.

JAS M BRYANT,
706 CHESTNUT STREET
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A. HERRMANN,

- ☞ Cape Flowers, all colors,
- ☞ Cycas Leaves, Metal Designs,
- ☞ and All Florists' Supplies.

Send for Prices.
404-412 East 34th St. NEW YORK.

**Wired
Toothpicks**

10,000, \$1.50; 50,000, \$6.25. Manufactured by
W. J. COWEE, BERLIN, N. Y.
Sample Free. For sale by dealers.

**HEADQUARTERS FOR
HORTICULTURAL SUPPLIES
Of Every Description.**

When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

DUNNE & CO., 64 W. 30th St., New York.
Telephone Call, 1700 Madison Square.

\$19.00 BOSTON AND RETURN \$19.00

via Nickel Plate Road, October 7th to 11th, inclusive, good returning until November 12th by depositing tickets at Boston and paying fee of 50c. Three trains daily, carrying through vestibuled sleeping cars. Individual Club Meals, ranging in price from 35c to \$1.00 served in dining cars on Nickel Plate Road; also meals a la carte. City ticket office 111 Adams St., Chicago. Full information can be secured from John Y. Calahan General Agent, Chicago.

Minneapolis.

TRADE AND STOCK BOTH ON THE IMPROVE.
—ROSES OF EXCELLENT QUALITY.—PERSONAL NOTES.

Trade conditions are improving, as well as stock. Some excellent Liberty are being cut in goodly numbers, also Bridesmaid and Bride. Meteor is in limited supply here this year. The longer-stemmed Beauties are coming on in fine condition. Very few indoor-grown carnations are received as yet.

The report is that Oscar Carlson, head rose grower of Wm. Donaldson & Company, is looking for a house to rent. We are not informed as to when the happy event takes place, but Oscar has the best wishes of his many friends.

H. S. Sauer, of the East Side Floral Company, has been mingling in politics this fall. He wanted the nomination by the democrats for representative from the thirty-ninth district.

James Lynes has taken the floral department of the New Store, and from his long experience should certainly meet with success.

Vinton Ayer has taken a position with D. O. Pratt, Anoka, Minn. Arthur Rees has taken his place with Rice Bros.

Otto Will has returned from his convention and eastern trip and has many stories of interest to relate.

Last week we had quite a severe frost and one more like it will finish up the outside stock.

E. O. Lovell, of Grand Forks, N. D., was a recent visitor.

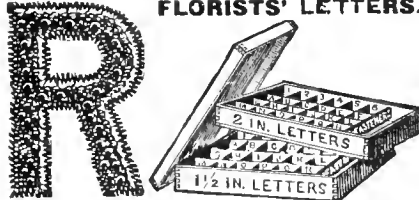
Miss Julia Ellis has returned from her vacation. C. F. R.

NEW CASTLE, IND.—George Genet, formerly with the South Park Floral Company, has gone to Lake Geneva, Wis., to be gardener for H. C. Lytton.

VINELAND, N. J.—Much fun is being made of some of the decorative flower beds in the public squares in which corn and beets are the principal components. But are not beets largely used for such purposes in England and is not corn an impressive feature of Boston's noted (?) Public Garden? Vineland critics should "go 'way back and sit down."

Boston Florist Letter Co.

MANUFACTURERS OF
FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.
Script Letters \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hawley St., BOSTON, MASS.

LEADING Florists' Supply House M. RICE & CO.

Importers and Manufacturers,
918 Filbert Street, PHILADELPHIA, PA
Catalogue for the asking.

Please mention the American Florist when writing.

Use our Patent
**IRON BENCH
FITTINGS** and
Roof Supports.

**THE JENNINGS IMPROVED
IRON GUTTER.**

IMPROVED VAPORIZING PANS **VENTILATING**
For Tobacco Extracts, Etc. Send for Circulars.
DILLER, CASKEY & CO., SUCCESSORS TO **JENNINGS BROS.,** **APPARATUS.**
S. W. Cor. Sixth and Berk Sts., PHILADELPHIA.

ESTABLISHED 1866 **EMIL STEFFENS** SUCC. TO N. STEFFENS AND STEFFENS BROS.



They're Beauties

THOSE 1902 Baskets at Bayersdorfer's. Specials for American Beauty, Liberty and other Roses, for Carnations any color, for Violets, for Lilies, for Lily of the Valley, for Orchids. All new and not to be obtained elsewhere. Write us about them. They are not catalogued.

We have the most complete stock of every line of Florists' Supplies we have ever had to offer. New importations, ordered by our Mr. H. Bayersdorfer while abroad, are constantly arriving. Many of these goods are not to be found in our own or any other catalogue. Write to us for special list.

H. Bayersdorfer & Co.

50-56 NORTH FOURTH STREET,
PHILADELPHIA, PA.

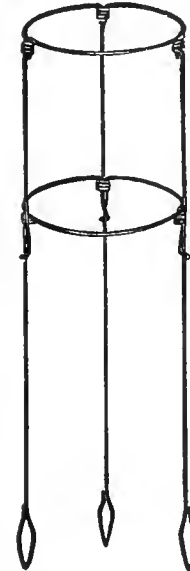
\$8.50 CLEVELAND AND RETURN \$8.50

On September 26th and 27th, via Nickel Plate Road. Return limit of October 28th may be obtained by depositing tickets in Cleveland. Three trains daily, with vestibuled sleeping-cars. American Club Meals, ranging in price from 35c to \$4.00 in dining-cars. Also meals a la carte. City Ticket office, Chicago, 111 Adams St. For detailed information address John Y. Calahan, General Agent, 113 Adams St.

NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn, N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

The Model Extension Carnation Support.



Flushing, Long Island,
Dec. 10th, 1901.
MR. THEON N. PARKER,
Brooklyn, N. Y.

Dear Sir— I have used your Wire Carnation Support the last two years in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.

Very truly,
A. L. TORNE,
La Fayette, Ind.,
July 8th, 1902.

MR. THEON N. PARKER,
Harrison, N. J.
Dear Sir:— After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season.

We were much pleased with the simplicity, strength and neat appearance of the support.

Yours truly
F. DORNER & SONS CO.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.

Please mention the American Florist when writing.

TIN FOIL

Plain, Fancy, Printed & Mounted,

Manufactured by

The Conley Foil Co.

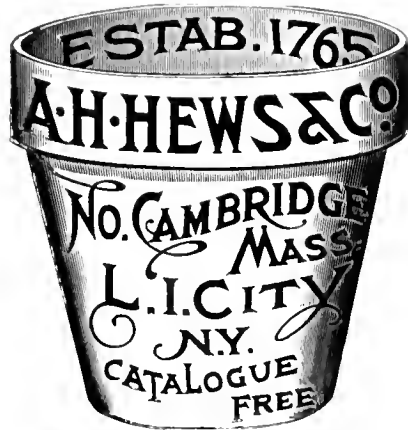
521 to 541 West 25th St.,

NEW YORK.

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Standard Flower Pots

The WHILLDIN POTTERY COMPANY,
 PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
 Travelling Representative, U. CUTLER RYERSON, 108 Third Ave., Newark, N. J.



STANDARD FLOWER POTS!

Packed in small crates, easy to handle.

Price per crate	Price per crate	
1500 2-in., in crate, \$4.88	120 7-in., in crate, \$4.20	
1500 2½ " " 5.25	60 8 " " 3.60	
1500 2½ " " 6.00	HAND MADE.	
1000 3 " " 5.00	48 9-in., in crate, \$3.60	48 10 " " 4.80
800 3½ " " 5.80	24 11 " " 3.60	480 4 " " 4.50
500 4 " " 4.50	24 12 " " 4.80	320 5 " " 4.51
144 6 " " 3.16	6 16 " " 4.50	

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward N. Y.
 Or AUGUST ROLKER & SONS, New York Agents,
 31 Barclay Street, New York City.

Please mention the American Florist when writing.

KELLER BROS.

213-15-17-19-21-23 Pearl St.,
 NORRISTOWN, PA.

Manufacturers of Standard Flower Pots, red in color, equal to the best on the market; are 16 miles from Philadelphia, best of railroad connections. We give special attention to mail orders and make special sizes to order in quantities. A postal will bring prices and discounts.

WRITE

A. F. KOHR, 1521-23 N. LEAVITT ST.,
 CHICAGO, ILL.,
 FOR PRICES OF

Standard Pots

which for strength and porosity combined
 are the best on the market.

RED POTS

SAMPLE POT AND PRICE LIST
 ON APPLICATION.

C. C. POLLWORTH CO., MILWAUKEE,
 WIS.

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST,
 28th and M Streets, WASHINGTON, D. C.

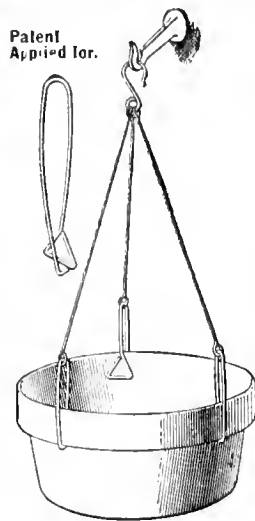
FOR SOMETHING NEW AND NICE

"Cluster of Roses Stationery"

for Florists, is the latest. Both plain and in colors. Samples free by

DAN'L B. LONG, Publisher, BUFFALO, N. Y.

Kramer's Pot Hangers



THE neatest, simplest, most convenient and only practical device for converting ordinary flower pots into hanging baskets. They fit all standard made pots from 2 to 10 inches in diameter. The illustration shows how they are attached. Just the thing for hanging up ferns, begonias, etc. You can make room and money by their use. Try them.

Price with wire chain as shown in cut, \$1.00 per dozen by express. Sample doz. by mail, \$1.25.

I. N. KRAMER & SON,
 CEDAR RAPIDS, IOWA.



GEO. KELLER & SON,
 MANUFACTURERS OF
FLOWER POTS.
 Before buying write for prices.
 351-363 Herndon Street,
 near Wrightwood Ave.,
 CHICAGO, ILL.

THOSE RED POTS

"STANDARDS"
 FULL SIZE AND WIDE BOTTOMS.
 BULB PANS AND AZALEA POTS.
 DETROIT FLOWER POT M'FY,
 HARRY BALSLEY, DETROIT, MICH.,
 Rep. 490 Howard St.

FLOWER POTS ALL KINDS.

STANDARD POTS A SPECIALTY
 List and SAMPLES FREE.
 SWANN'S POTTERY M'G CO.,
 P. O. Box 78. MINNEAPOLIS, MINN.

It is good business policy to mention the

American Florist

.....when writing to an advertiser.

Bargains FOR Florists.

We are headquarters for a general assortment of the necessary material and supplies that you are looking for. If you are about to improve or construct, consult us.

In connection with the dismantling of the Pan-American Exposition, we have for sale:

20,000,000 FEET of fine seasoned lumber, practically new, consisting of all sizes of joists, timbers, dressed and matched boards and flooring; also sash and doors.
 50,000 FEET of roofing glass.

PIPE.

We are headquarters for pipe. We offer you: 100,000 FEET of 2 to 4-inch wrought iron, lap welded casing. We can furnish this material in three ways: Either with sleeve or jacket couplings, screwed ends and threaded couplings or with expanded cast iron flanges with bolts and nuts.

1,000,000 FEET of standard black wrought iron pipe, size ¾ to 12-inch. It is second-hand but has new threads and couplings and is in first-class condition.

1,000 TONS of galvanized wire 9, 10, 11, 12, 13, 14 and 15 guage.

50,000 FEET of 2, 3 and 4-inch cast-iron soiled pipe and fittings.

100,000 FEET of garden hose, ¾ and 1-in.
 75,000 FEET of cotton rubber-lined fire-hose, (rubber-lined in and outside), ranging in sizes 1 to 2½-inch.

VALVES and fittings of every kind.

BOX COILS for heating purposes.

RADIATORS, new and second-hand.

We also offer the following bargains in

Heating Boilers

50 CAST-IRON sectional heaters, capacity from 450 to 5,000 feet.

1 NO. 2 Standard Kroeschell hot water heating boiler.

FOUR 36x10 Horizontal Tubular.

FOUR 36x12 Horizontal Tubular.

FIVE 42x10 Horizontal Tubular.

FIVE 42x12 Horizontal Tubular.

SIX 48x14 Horizontal Tubular.

TWO 54x16 Horizontal Tubular.

FOUR 60x16 Horizontal Tubular complete with all fittings.

PUMPS of all Descriptions.

A carload of shovels and spades that we are selling at \$5.00 per dozen.

We carry a complete stock of hardware and farm implements, besides plumbing material of every kind.

Write for Catalogue No. 47.
 Chicago House Wrecking Co.,
 W. 35th and IRON STS., CHICAGO, ILL.

New Orleans.

SOCIETY HAS A SLIMLY ATTENDED MEETING.—TRAVELERS TELL OF VARIED EXPERIENCES.—TRADE DULL.—SUMMER VERY DRY.—NOTES.

The attendance at our last club meeting was not so large as expected, but those present had the pleasure of hearing the returning members tell about what they had seen during their convention trip. E. Baker read a very interesting paper about Boston and New York parks. He called attention to the importance of studying the landscape gardening art and expressed the hope that many young men will devote their attention to the profession. H. Papworth spoke in the best terms of the Asheville convention. R. Panter, our president, coming back from other society conventions, of which he is a member, stopped at Chicago and Indianapolis.

Trade has been extremely dull during the summer, in fact worse than usual at this season of the year, most likely on account of the drought. Chrysanthemums have been suffering a good deal, but some growers seem to be well satisfied. The J. Steckler Company and H. Papworth report a very promising crop, better than last year, which was good.

W. Rehm will move to a better location, near U. J. Virgin. M. M. L.

Columbus, O.

DEMONSTRATOR INTERESTS THE PEOPLE IN RAFFIA.—A NEW FIRM HAS GOOD STOCK.—VARIOUS NOTES.

A lady who was expert at fancy work made of raffia proved quite a drawing card for the Livingston Seed Company, who had her employed for a few days last week to give a "demonstration" at their store. Three more new houses recently added to the Livingston range are nearly glazed and will soon be ready for use.

That new firm, the King Avenue Floral Company, has finished all but connecting the boiler and is about ready for business, with a promising stock on hand for so young a firm.

Considerable stem rot among carnations is being complained of, not ending with the attack made on the plants in the field.

Thus far this month proves to be a saving on fuel, as firing has been discontinued on account of warm weather.

CARL.

CYPRESS

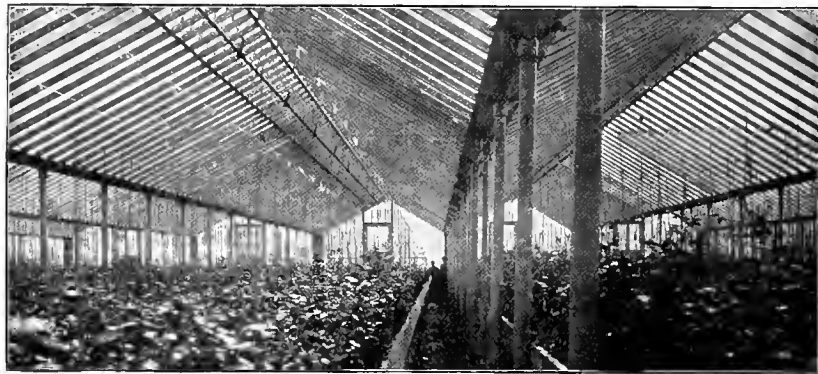


Green House Material

Hot Bed Sash. Red Cedar Posts.

Write for circulars or estimate.

LOCKLAND LUMBER CO.,
LOCKLAND, OHIO.



SHORT-ROOF GREENHOUSES. (Patented.)

.....WRITE FOR CATALOGUE.....

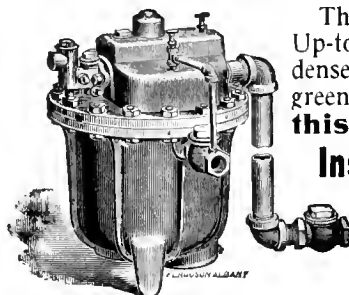
A. DIETSCH & CO., Patentees

Manufacturers of California Red Cedar and Louisiana Cypress Greenhouse Material.

615-621 Sheffield Ave.,

CHICAGO.

Steam Traps SAVE COAL



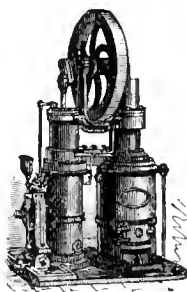
This is the Return Steam Trap used by the Up-to-date Greenhouse men to return the condensed water from the heating coils in their greenhouses. **Have been in use for this purpose over thirty years.**

Insures an Even Temperature.

Send for Red Catalogue.

Albany Steam Trap Co.

ALBANY, N. Y., U. S. A.



WATER.

If you want water only when the wind blows a windmill will do your work and cost less money than our Rider and Ericson Hot Air Pumps, but if you want water every day while your flowers are growing and do not want your pump blown down when the wind blows too hard, no pump in the world can equal ours. We have sold about 20,000 of them during the past twenty-five years, which is proof that we are not making wild statements.

Our Catalogue "A 3" will tell you all about them. Write to nearest store.

Rider-Ericsson Engine Co.

35 Warren St., New York. 692 Craig St., MONTREAL, P. Q. 40 Dearborn St., CHICAGO.
239 Franklin St., BOSTON. Teniente-Rey 71, HAVANA, CUBA. 40 N. 7th St., PHILADELPHIA.
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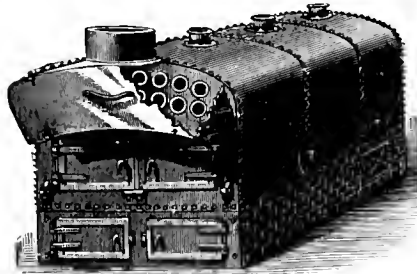
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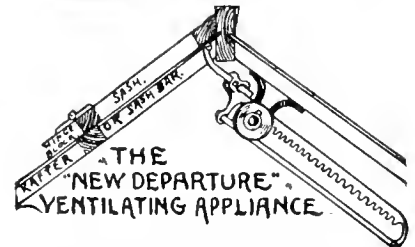
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Vol. XIX.

CHICAGO AND NEW YORK, OCTOBER 4, 1902.

No 748.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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324 Dearborn St., Chicago.
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AMERICAN ROSE SOCIETY.

Annual meeting at call of executive committee, LEONARD BARRON, 136 Liberty St., New York, secretary.

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Fundamental Principles of Plant Breeding.

BY LUTHER BURBANK.

[Read before the International Plant Breeding Conference, New York, September 30 to October 2, 1900.]

Only the most limited view of plant breeding can be given in an ordinary thesis. It would be necessary to extend the subject through many volumes to give even a general view of what has already been demonstrated, and that which the clear light of science has yet to bring forth from the depths is too extensive even for the imagination to grasp, except through a full knowledge of what practical field work has already accomplished.

The fundamental principles of plant breeding are simple and may be stated in few words; the practical application of these principles demands the highest and most refined efforts of which the mind of man is capable, and no line of mental effort promises more for the elevation, advancement, prosperity and happiness of the whole human race.

Every plant, animal and planet occupies its place in the order of nature by the action of two forces, the inherent constitutional life force with all its acquired habits, the sum of which is heredity; and the numerous complicated external forces, or environment. To guide the interaction of these two forces, both of which are only different expressions of the one eternal force, is, and must be, the sole object of the breeder, whether of plants or animals.

When we look about us on the plants inhabiting the earth with ourselves and watch any species day by day we are unable to see any change in some of them. During a lifetime and in some cases perhaps including the full breadth of human history, no remarkable change seems to have occurred. And yet there is not to-day one plant species which has not undergone great and, to a certain extent, constant change.

The life forces of the plant in endeavoring to harmonize and adapt the action of its acquired tendencies to its surroundings may, through many generations, slowly adapt itself to the necessities of existence, yet these same accrued forces may also produce sudden, and to one not acquainted with its past history, most surprising and unaccountable changes of character. The very existence of the higher orders of plants which now inhabit the earth has been secured to them only by their power of adaptation to crossings, for through the variations produced by the combination of numer-

ous tendencies, individuals are produced which are better endowed to meet the prevailing conditions of life. Thus to nature's persistence in crossing we owe all that earth now produces in man, animals or plants, and this magnificently stupendous fact may also be safely carried into the domains of chemistry as well, for what is common air and water but nature's earlier efforts in that line, and our nourishing foods but the result of myriad complex chemical affinities of late date.

Natural and artificial crossing and hybridizing are among the principal remote causes of nearly all otherwise perplexing or unaccountable sports and strange modifications, and also of many of the now well established species. Variations without immediate antecedent crossing occur always and everywhere from a combination of past crossings and environments, for potential adaptations often exist through generations without becoming actual, and when we fully grasp these facts there is nothing mysterious in the sudden appearance of sports; but still further intelligent crossings produce more immediate results and of great value, not to the plant in its struggle with natural forces, but to man by conserving and guiding its life forces to supply him with food, clothing and innumerable other luxuries and necessities. Plant life is so common that one rarely stops to think how utterly dependent we are upon the quiet but magnificently powerful work which they are constantly performing for us.

It was once thought that plants varied within the so-called species but very little, and that true species never varied. We have more lately discovered that no two plants are exactly alike, each one having its own individuality, and that new varieties having endowments of priceless value and even distinct new species can be produced by the plant breeder with the same precision that machinery for locomotion and other useful purposes is produced by the mechanic.

The evolution and all the variations of plants are simply the means which they employ in adjusting themselves to external conditions: Each plant strives to adapt itself to environment with as little demand upon its forces as possible and still keep up in the race. The best endowed species and individuals win the prize, and by variation as well as persistence. The constantly varying external forces to which all life is everywhere subjected demand that the inherent

internal force shall always be ready to adapt itself or perish.

The combination and interaction of these innumerable forces embraced in heredity and environment have given us all our bewildering species, none of which ever did or ever will remain constant, for the inherent life force must be pliable or outside forces will sooner or later extinguish it. Thus adaptability as well as perseverance is one of the prime virtues in plant as in human life.

Plant breeding is the intelligent application of the forces of the human mind in guiding the inherent life forces into useful directions by crossing to make perturbations or variations of these forces, and by radically changing environments, both of which produce somewhat similar results, thus giving a broader field for selection, which again is simply the persistent application of mental force to guide and fix the perturbed forces in the desired channels.

Plant breeding is in its earliest infancy. Its possibilities and even its fundamental principles are understood by but few; in the past it has been mostly dabbling with tremendous forces which have been only partially appreciated, and has yet to approach the precision which we expect in the handling of steam or electricity, and notwithstanding the occasional sneers of the ignorant, these silent forces embodied in plant life have yet a part to play in the regeneration of the race which by comparison will dwarf into insignificance the services which steam and electricity have so far given. Even unconscious or half-conscious plant breeding has been one of the greatest forces in the elevation of the race. The

must be able to correctly estimate the action of the two fundamental forces, inherent and external, which he would guide.

The main object of crossing genera, species or varieties is to combine various individual tendencies, thus producing a state of perturbation or partial antagonism by which these tendencies are, in later generations, dissociated and recombined in new proportions, which gives the breeder a wider field for selection, but this opens a much more difficult one, the selection and fixing of the desired new types from the mass of heterogeneous tendencies produced, for by crossing, bad traits as well as good are always brought forth. The results now secured by the breeder will be in proportion to the accuracy and intensity of selection and the length of time they are applied. By these means the best of fruits, grains, nuts and flowers are capable of still further improvement in ways which to the thoughtless often seem unnecessary, irrelevant or impossible.

When we capture and domesticate the various plants the life forces are relieved from many of the hardships of an unprotected wild condition, and have more leisure, so to speak, or in other words more surplus force to be guided by the hand of man under the new environments into all the useful and beautiful new forms which are constantly appearing under cultivation, crossing and selection. Some plants are very much more pliable than others, as the breeder soon learns. Plants having numerous representatives in various parts of the earth generally possess this adaptability in a much higher degree than the monotypic species,

work upon by combination for still further variations.

The plant breeder, before making combinations, should with great care select the individual plants which seem best adapted to his purpose, as by this course many years of experiment and much needless expense will be avoided. The difference in the individuals which the plant breeder has to work upon are sometimes extremely slight. The ordinary unpracticed person cannot by any possibility discover the exceedingly minute variations in form, size, color, fragrance, precocity and a thousand other characters which the practiced breeder perceives by a lightning-like glance. The work is not easy, requiring an exceedingly keen perception of minute differences, great practice and extreme care in treating the organisms operated upon; and even with all the naturally acquired variations added to those secured by crossing and numerous other means, the careful accumulation of slight individual differences through many generations is imperative, after which several generations are often, but not always necessary to thoroughly "fix" the desired type for all practical purposes.

The above applies to annuals, or those plants generally reproduced by seed. The breeder of plants which can be reproduced by division has great advantage, for any valuable individual variation can be multiplied to any extent desired without the extreme care necessary in fixing by linear breeding the one which must be reproduced by seed; but even in breeding perennials, the first deviations from the original form are often almost unappreciable to the perception, but by accumulating the most minute differences through many generations the deviation from the original form is often astounding. Thus by careful and intelligent breeding any peculiarity may be made permanent, and valid new species are at times produced by the art of the breeder, and there is no known limit to the improvement of plants by education, breeding and selection.

The plant breeder is an explorer into the infinite. He will have "no time to make money," and his castle, the brain, must be clear and alert in throwing aside fossil ideas and rapidly replacing them with living, throbbing thought followed by action. Then, and not until then, shall be create marvels of beauty and value in new expressions of materialized force, for everything of value must be produced by the intelligent application of the forces of nature which are always awaiting our commands.

The vast possibilities of plant breeding can hardly be estimated. It would not be difficult for one man to breed a new rye, wheat, barley, oats or rice, which would produce one grain more to each head, or a corn which would produce an extra kernel to each ear, another potato to each plant, or an apple, plum, orange or nut to each tree. What would be the result? In five staples only in the United States alone the inexhaustible forces of nature would produce annually without effort and without cost:

5,360,000	extra bushels of corn
15,000,000	" " " wheat
1,000,000	" " " oats
1,500,000	" " " barley
21,000,000	" " " potatoes

But these vast possibilities are not alone for one year, or for our own time or race, but are beneficent legacies for every man, woman or child who shall ever inhabit the earth. And who can estimate the elevating and refining influ-



PHYLLOCACTUS STENOPETALUS GROWN BY OSWALD EDERT, WASHINGTON, D. C.

chemist, the mechanic, have, so to speak, domesticated some of the forces of nature, but the plant breeder is now learning to guide even the creative forces into new and useful channels. This knowledge is a most priceless legacy, making clear the way for some of the greatest benefits which man has ever received from any source by the study of nature.

A general knowledge of the relations and affinities of plants will not be a sufficient equipment for the successful plant breeder. He must be a skillful botanist and biologist and, having a definite plan,

for, having been subjected to great variations of soil, climate and other influences, their continued existence has been secured only by the inherited habits which adaptation demanded; while the monotypic species not being able to fit themselves for their surroundings without a too radically expensive change, have only continued to exist under certain special conditions. Thus two important advantages are secured to the breeder who selects from the genera having numerous species, the advantage of naturally acquired pliability, and in the numerous species to

ence and moral value of flowers with all their graceful forms and bewitching shades and combinations of color and exquisitely varied perfumes? These silent influences are unconsciously felt even by those who do not appreciate them consciously, and thus with better and still better fruits, nuts, grains and flowers will the earth be transformed, man's thoughts turned from the base destructive forces into the nobler, productive ones which will lift him to higher planes of action towards that happy day when man shall offer his brother man not bullets and bayonets, but richer grains, better fruits and fairer flowers.

Cultivation and care may help plants to do better work temporarily, but by breeding, plants may be brought into existence which will do better work always, in all places and for all time. Plants are to be produced which will perform their appointed work better, quicker, and with the utmost precision.

Science sees better grains, nuts, fruits and vegetables all in new forms, sizes, colors and flavors, with more nutrients and less waste, and with every injurious and poisonous quality eliminated and with power to resist sun, wind, rain, frost and destructive fungus and insect pests; fruits without stones, seeds or spines; better fiber, coffee, tea, spice, rubber, oil, paper and timber trees, and sugar, starch, color and perfume plants. Every one of these and ten thousand more are within the reach of the most ordinary skill in plant breeding.

Fellow plant breeders, this is our work. On us now rests one of the next great world movements; the guidance of the creative forces is in our hands. Man is slowly learning that he, too, may give the same forces which have been through all the ages performing this beneficent work of the world.

Phyllocactus Stenopetalus.

The accompanying illustration is a reproduction of a photograph of a dozen plants of *Phyllocactus stenopetalus* (*P. latifrons*) often catalogued as the Queen cactus. The plants in question are plunged beneath a tree on the lawn at The Oaks, the home of Col. H. F. Blount, West Washington, D. C., where Oswald Edert is gardener. The photograph was taken July 22; at the time there were 128 flowers and buds. The plants are in 8-inch to 12-inch pots and make a fine show in the early morning and on cloudy days they remain open until ten o'clock. As late as the present date the flowers are quite numerous. When winter approaches the plants are taken up and sheltered in a cool greenhouse. P. G.

Two of the Younger Canadians.

ALFRED C. WILSHIRE.

Born at Beaconsfield, Bucks, England, this gentleman, Alfred C. Wilshire, came of a family of gardeners. His father was a plantsman and so were his three brothers, with whom he removed to Canada in 1882, the quartette making for Montreal. After three years of varied experiences, two of the brothers, Alfred and Walter, set up a retail flower store. The partnership continued successfully for some five years, when Walter retired. Since then the business has been conducted, still as Wilshire Brothers, by Alfred C. Wilshire alone. He has a fine store at the corner of Sherbrooke and Bleury streets, Montreal, and does a handsome trade. Mr. Wilshire was a charter member of the Montreal Gardeners' and



ALFRED C. WILSHIRE, MONTREAL, QUE.



CHARLES M. WEBSTER, HAMILTON, ONT.

TWO OF THE YOUNGER LEADERS IN CANADIAN FLORICULTURE.

Florists' Club, was for five years its treasurer and for two years its president. He has also taken an active part in the affairs of the Canadian Horticultural Society and at the recent Hamilton convention was elected a member of the executive committee for a second term of three years.

CHARLES M. WEBSTER.

The business conducted as Webster Brothers, at Hamilton, Ont., was founded by James Fraser Webster and George Webster, who issued their first catalogue in 1883, offering plants and small fruits. According to the best information now at hand this was the first time that a purely Canadian firm had struck for a Canadian mailing trade in plants, although a great many catalogues and plants had been coming for years in the mails from across the Niagara frontier. George Webster withdrew from the firm after a few years and James F. continued the business to the day of his death, in June, 1897. He became widely known in Ontario for his enthusiasm in everything floricultural and built up a fine trade. He was a member of the S. A. F. for many years. At the father's death the business fell to an only son, Charles M. Webster, then only 23 years of age. He became a strong advocate of specializing in the business and grows no cut flowers, devoting his whole energy to producing plants and selling them by mail. The business has enjoyed a steady growth since the day he took charge. His spring retail list is called "Canadian Plants for Canadian People." He also issues a fall bulb catalogue and does a nice wholesale business in plants by means of a catalogue. It was principally through Mr. Webster's efforts that the Hamilton Gardeners' and Florists' Club was organized a few years ago. He is the vice-president of the Canadian Horticultural Society for the current year, the term running from January to January, and was the manager of the successful trade exhibition held in connection with the recent convention at Hamilton.

SCHLNECTADY, N. V.—Chas. Limmier has taken a partner and the firm name will hereafter be Limmier & Evans.

International Plant Breeding Conference.

The long-heralded Plant Breeding Conference opened on Tuesday, September 30, at the Berkeley Lyceum on West Forty-fourth street, New York, with an attendance of about seventy, mostly professors. Among the foreign representatives present were George Nicholson, of England, whose name is a household word with the gardening fraternity all over the English-speaking world, and W. Bateson, of Cambridge University, England. The experiment stations in the various states and the Department of Agriculture, at Washington, furnished a large proportion of the attendants and the papers and discussions were scientific and sometimes theoretical, but always interesting.

The meetings, which were under the auspices of the New York Horticultural Society, were presided over by the president of that society, Jas. Wood. President Wood started the first session with a few words of welcome and then the first paper on the programme, "Practical Aspects of the New Discoveries in Heredity," was read by its author, Prof. Bateson. A paper from C. C. Hurst, of England, on "Recent Experiments in Hybridization," one from Max. Leichtlin, Germany, and one from J. T. Lynch, of Cambridge Botanic Garden, England, were read by Secretary Barron and a paper on "Artificial Atavism," from Hugo de Vries, Amsterdam, was read by Dr. McDougal. At Tuesday afternoon's session the secretary read a paper from Luther Burbank on "The Principles of Plant Breeding," "Breeding for Intrinsic Qualities" was discussed by W. M. Hays, of St. Anthony Park, Minn. "Correlation between Parts of Plants in Form, Color, etc.," was the topic of S. A. Beach, of Geneva, N. Y., and "Breeding of Disease-resistant Varieties," of W. A. Orton.

At the Wednesday sessions other valuable papers were read, among them the following: "Individual Prepotency," by W. W. Tracy; "Practical and Valuable Results of Cross-Fertilization of Sugar Cane," by D. Morris, Commissioner of Agriculture, Barbadoes; "Results of Hybridization and Plant Breeding in Canada," by Wm. Saunders; "Cytological Aspects of Hybrids," by W. A. Cannon. The paper on "Breeding Florists'

Flowers," by E. G. Hill, was read by P. O'Mara. At the evening session the papers were illustrated with stereopticon views. The subjects were: "Hybridizing *Gladiolus* Species," by W. Van Fleet; "Wine Ferments," by W. B. Alwood; "Breeding Florists' Flowers," by C. W. Ward; "Cereal Breeding in Kansas," by H. L. Roberts.

On Thursday afternoon a session was held at the New York Botanic Garden, after lunch with Dr. Britton. On Friday the visitors were taken up the Hudson by steamer to Poughkeepsie to lunch with F. R. Newbold. The places of Archibald Rogers and F. W. Vanderbilt were also visited.

The names enrolled on the visitors' register were as follows:

N. E. Hansen, Brookings, So. Dakota; W. Paddock, Colorado; G. B. Brackett, Washington, D. C.; C. C. Watrous, Des Moines, Ia.; W. A. Orton, Washington, D. C.; W. B. Alwood, Blacksburg, Va.; R. N. Kellogg, Three Rivers, Mich.; C. A. Zavitz and H. L. Hutt, Guelph, Ont.; W. T. Macoun, Ottawa, Ont.; H. L. Roberts, Manhattan, Kans.; J. B. Norton, Washington, D. C.; R. D. Connor, Roseville, N. J.; W. W. Tracy, Detroit, Mich.; C. L. Seofield and W. J. Spellman, Washington, D. C.; H. C. Irish, St. Louis, Mo.; F. G. Markham and Anne Dorrance, Dorrance, Pa.; A. J. Pieters, Washington; T. L. Lyon, Lincoln, Neb.; A. D. Showel, Urbana, Ill.; C. L. Allen, Floral Park, N. Y.; W. M. Hays, St. Anthony Park, Minn.; W. Bateson, Cambridge, Eng.; G. Nicholson, Richmond, Eng.; W. H. Evans, Washington; H. C. Price, Ames, Ia.; D. Morris, West Indies; Alfred Rehder, Jamaica Plain, Mass.; L. H. Bailey, Ithaca, N. Y.; L. C. Corbett, Washington; C. E. Allen, Madison, Wis.; S. Henshaw, Staten Island, N. Y.; D. G. Johnson, Baltimore; S. W. Underhill, Croton, N. Y.; F. H. Valentine, Ridgewood, N. J.; N. M. Shaw, Briar Cliff Manor, N. Y.;

CARNATIONS.

LIME AND SULPHUR FOR STEM ROT.

This is an age of plant diseases; they increase and perplex cultivators much more than all other ills the profession is heir to. We had no experience with stem rot in carnations until last season, and after benching it carried off over half of our Lawson and Bradt. We had been advised to use lime and sulphur for stem decay in gardenias and it works well, and Mr. Montgomery, when visiting here, advised its trial for stem rot in carnations.

We had a good opportunity to test it at that time, as our best Lawsons in the field, set out of 4-inch pots, were dying every day; nearly a quarter of them were gone. We went at once and scraped away the soil round every stem and put about a tablespoonful of air-slaked lime and yellow sulphur, equal parts, around each, and not a plant died afterward, except where they were evidently infected beforehand. At benching time, also, we used the same precaution, and our stock never was as thrifty as at present and, with the exception of Enquirer, which is of dense, tufted habit and difficult to apply the remedy to, they have not suffered from stem rot since.

I do not wish to be understood as asserting that lime and sulphur will cure the evil, but simply to tell what happened here, that others may be induced to do likewise and make a test of it for themselves. It cannot harm, and may possibly be of value to carnation growers.

In these days of rapid and extensive dissemination of varieties it is no wonder these troubles are so widespread. We bought and paid for the stem rot. It came in a batch of 100 rooted cuttings of a variety that was not new at the time, part of which died off in flats, and at the end of the outdoor season not one plant remained alive, and the disease had

in need of the best of care. As the days grow shorter the watering can be done none too carefully. By allowing a bench to become soggy a great deal of harm may be done, especially if a spell of cloudy weather comes along at this time. A careful man to handle the hose is of great value, as a severe check now is liable to show in poor results through the entire season.

Watch for red spider and if any appear be sure to get them out as soon as possible, as we now are better able to syringe than we will be later, when the days are shorter and cloudy weather predominates. Always select a bright day when you wish to syringe.

Have all the plants tied up as soon as possible and thereby avoid crooked and weak stems. There will also be less yellow and dead foliage at the bottom of the plants if they are kept tied up and away from the soil.

Keep all the stock in a growing condition, as every check is detrimental in one way or another; it will show itself later on in spite of the best of doctoring.

The soil should not be allowed to become green; whenever it gets in this condition a sprinkling of lime should be applied and then the top of the soil should be scraped and broken up, allowing the air to pass through freely. It is always best to keep the soil loosened a day or more after scraping to secure the full benefit.

Many of the plants which were housed early are now ready for liquid manure in a mild form, and plants showing weak stems will be greatly benefited by a sprinkling of wood ashes over the soil.

R. I.

CULTURAL REMINDERS.

The routine of culture has been gone over so often that it may seem an unnecessary repetition to detail the work as the weeks come along, but a little reminder of some of the points that we may overlook, or be inclined to neglect with the push of other work, will not be out of place.

Watering should be done with greater care as the cloudy days come on, because the plants, while they may be growing nicely, do not have the mass of roots and foliage to supply that they will have a month or more later and an overdose of water is about as detrimental a thing as it is possible to give a carnation. But not enough moisture will weaken and harden the plants and on this account one will have to see that they get enough water to keep them in good growing condition, but if you must err let it be on the side of too little rather than too much moisture.

I have recently talked with a grower who proposes to use several small oil stoves in his houses in order to prevent the heavy condensation of moisture that takes place with the ventilators closed when the thermometer is ranging near the freezing point outdoors and there is no heat in the pipes. This may help bridge the trouble over until the coal question is settled. To those who are near the soft coal mines or have natural gas the fuel question is of minor importance but it is a very serious matter to us fellows east of Pittsburg.

Avoid all slovenliness in and around your carnation houses. Some growers seem to think their carnations will get along all right until the rush of fall work is over, but this is a very decided mistake. It is true that the carnation will stand a goodly portion of abuse and yet give



WEST VIRGINIA, GUSTAV OBERMEYER'S NEW CANNA.

Wm. Saunders, Ottawa, Ont.; H. L. Cross, Briar Cliff Manor, N. Y.; C. F. Anstin, College Park, Md.; H. H. Groff, Simcoe, Ont.; F. B. Lloyd, Teachers College; S. A. Beach and F. C. Stewart, Geneva, N. Y.; F. V. Munson, Denison, Tex.; A. T. Jordan, New Brunswick, N. J.; Stewardson Brown, Philadelphia; C. E. Saunders, Ottawa, Ont.

spread to others in the field, and has been with us ever since. E. O. ORPET.

NOTES ON SEASONABLE TREATMENT.

Carnations should all be planted by this time and they must be watched carefully. They have to become accustomed to new conditions and consequently are

results, but it is equally true that the results thus obtained do not pay. By slovenliness is meant the leaving of the old flowers on the plants, as well as deformed buds and branches, neglecting the disbudding, allowing the plants to lie on the ground unstaked, the ground growing up with weeds, and aphids, spider and thrips having a daily picnic in the house.

The whole of this makes a pretty strong combination, yet I have seen places where it was all combined and the grower would say, "yes, they look a little hard now but we will get over into these houses in a few weeks and make a general clean up." If either one of these matters has been allowed to develop, better attend to it at once, for no other flower will respond so quickly to careful treatment, and you will be looking for responses right along now.

It is time well spent to carefully note the condition of each variety, monthly, at least, if not oftener. Condition is used here as applying to the development of buds and flowers. It is well to know how long it takes the bud when first visible to develop into a marketable flower and it is surprising to note the difference in the time between the different varieties. You will also find some surprises when you come to count up the number of buds set to each variety.

In my houses this season Crocker, Cressbrook, Dorothy, Morning Glory, Gov. Roosevelt and Queen Louise are about equally set with buds and they will range from four to ten buds per plant, buds that can be brought in at or before the holidays. This may seem a light crop to some growers but if you will go over your own place carefully you will find that it takes an exceptional plant to produce ten flowers up to January 1.

My houses also contain some novelties that will produce from one to six flowers per plant by January 1, and a few that will be lucky to produce one flower to two or three plants. This difference in the production of early flowers is not always the fault of the variety, as it is nothing unusual for a novelty to hide its good points until after January 1 and then possibly the next season come into the early class, getting, as it were, acclimated to its new surroundings.

Several varieties that give no promise of bloom at all, are, I believe good enough varieties, but the cuttings ordered in January were sent so late that they could not make good plants for this season. As a consequence I have no income from the flowers prior to January 1, with very little prospect of much after that date and practically no cuttings on the plants, yet these cuttings were billed to me at regular novelty prices, thus making a two-edged sword of injustice. A little observation of this sort may be very profitable later on, as we are apt to forget these earlier difficulties and losses when the crop is in its height and everything looks bright and promising, thus allowing ourselves to get caught in the same manner next fall.

ALBERT M. HERR.

Cannas in West Virginia.

The accompanying illustration is from a photograph of a field of cannas at the establishment of Gustav Obermeyer, Parkersburg, W. Va. The picture lacks something in detail because of the wind blowing at the time the photograph was taken, but it nevertheless serves to show the profusion of bloom. The canna in



A PANEL OF AMERICAN BEAUTY ROSES.

the foreground is Mr. Obermeyer's pride. It is a seedling of Queen Charlotte, named by him West Virginia. It is dwarf, early and a very free bloomer. Mr. Obermeyer had them in fine bloom at Easter, plants eight inches high, in 3½-inch pots. The canna in the background is Alphonse Bouvier. The geranium shown in a corner of the illustration is also one of Mr. Obermeyer's own, called Gov. Jackson.

A Panel of Roses.

The accompanying illustration is from a photograph of a panel of American Beauty roses made by J. F. Sullivan, Detroit, for the funeral of the late Senator McMillan. The dimensions of the panel were 5x8 feet and hundreds of buds were required.

LYNN, MASS.—The twenty-sixth annual exhibition of the Houghton Horticultural Society at Odd Fellows' Hall brought out a remarkable display of flowers contributed mainly by amateurs. The collections of wild flowers were especially good.

Hybridizing Gladiolus Species.

BY W. VAN FLEET.

[Read before the International Plant Breeding Conference, at New York, September 30 to October 2, 1902.]

In the following notes the term "species" is necessarily used in the horticultural rather than the strict botanical sense. For many years, through the kindness of Herr Max Leichtlin, Baden Baden, Germany, and others, we have been enabled to receive newly collected gladioli from Africa and Madagascar, often in advance of their botanical determination, and at once used them for breeding purposes. For convenience it may be well to divide these newcomers into groups according to their garden affinities with well-known species, and as a further preliminary it may be stated that only summer-blooming species and varieties, having corns that keep well over winter, are desired by growers in this country. We have produced hybrids between the *Gandavensis* or *psittacinus*, as well as *Lemoinei* or *purpureo-auratus* sections, and such early flowering species as *tristis*, *vimulus*, *trimauculatus*, *cuspidatus*,

ramosus and Byzantinus. Some of these crosses were very pretty, but rather difficult to winter over without glass protection. *Purpureo-auratus* × *vinulus* and *Gandavensis* × *trimaclatus* bloom in August and have long-keeping corns. They increase rapidly, have attractive characteristic forms and markings, but the comparatively small size and neutral flesh tints of the blooms do not rank them among decorative gladioli.

The largest group of new species comprises types allied to *G. dracocephalus*. They come under the names of *Cooperi*, *platyphyllus* and various numbered forms collected during the last six years in Swaziland, Durban and Madagascar. The most promising horticultural type came labeled from Mt. Kilima-Noseharo, in eastern German Africa. It is a slender but healthy grower and has a fine spike, large hooded flowers, scarlet, penciled with orange outside and clear deep yellow inside, deepening into bright orange in the throat. Seedlings of this distinct form are under way but have not yet bloomed. *Platyphyllus* has immense, deeply-ribbed foliage, looking like a vigorous young palm before the flower stem arises, and a large corm having a hard, woody covering. The flowers are rather small, red and yellow, penciled with purple, strongly hooded and with the perianth so short that the stigma and anthers protrude, a characteristic shared by other allied unnamed species recently flowered. Hybrids with large-flowered garden gladioli have little merit in the first generation, but improve later on.

Already several hybrids of *dracocephalus* have been put in commerce by European breeders. They are not of a character to commend the type to beauty-loving amateurs, being too narrow and hooded in form and blotchy in coloring. The best *dracocephalus* hybrids we have seen were sent out under the name of *G. hybridus asperus* by Herr Leichtlin. They are vigorous, well-furnished plants, bearing ten to fourteen broad, well-opened flowers on a strong spike. The colors vary from orange to cinnabar red, penciled all over in intricate patterns with deep or brownish red. They are harmonious and attractive in outline and coloring. Some of the newer species of this group evidently come from arid regions, as they bloom early and ripen up their corns with great promptness. Hybrids obtained from them often show the same tendency, and a useful class of early-bloomers may yet be obtained from this progeny. A tall-growing form of *G. platyphyllus* from Swaziland has green blooms covered with pencilings of bluish purple. By crossing it with the best violet blues of the *Lemoinei* section we have made a start toward a "blue" class of a very distinct aspect. This form of *platyphyllus* is destitute of the woolly corm coatings, and is of excellent constitution, having long and attractive foliage.

The *psittacinus* group is of great interest as the foundation of the splendid *Gandavensis* strain and through it of all the fine modern garden gladioli. We have used *psittacinus* very extensively and generally obtain brilliant red and yellow blooms, a dense long spike and a rigid upright growth. *G. igneus*, *decoratus* and the valuable new *Quartinianus* are of this type. The first and last are very late bloomers, needing the shelter of glass in late fall to perfect the blooms. Hybridizing with selected earlier blooming garden varieties lessens this tendency and imparts much beauty of coloring to the stately habit and lusty growth of

this useful group. *G. sulphureus* or *Adlami* is plainly an offshoot of *psittacinus*. It blooms early in July and has a straight spike of medium-sized, clear sulphur-yellow flowers, sometimes having a greenish tinge. Some growers say the *sulphureus* of the Dutch florists is different from *Adlami*, but corns procured under both names from various sources produce identical flowers.

This yellow species or variety of *psittacinus* would appear a potential breeder for the much desired improved yellow garden sorts, yet persistent work, extending over seven years, has resulted in only two good golden yellow hybrids out of thousands of direct crosses bloomed. These are the product of *Adlami* × *Canary Bird*, the latter a fine American yellow *Gandavensis* of rich color but crooked growth. The other seedlings all came red, often very intense, with a few creamy whites, although varieties with yellow predominating were almost exclusively used in pollinating. The two good yellows are large and fine but of provokingly slow increase. *Quartinianus* hybrids, especially with the new *G. cruentus* section, are very promising, the tall, leafy plants being furnished with large and striking blooms, chiefly red and yellow.

The *oppositiflorus* group naturally follows, as many growers have little doubt that the original *Gandavensis*, known to be the parent of all our superb garden strains, was produced by a union of *psittacinus* with something of the *oppositiflorus* type, instead of with *G. cardinalis*, as so often claimed. We have grown many direct hybrids of *psittacinus* and its allies with *oppositiflorus* and *floribundus* that appeared quite identical with *Gandavensis* as we have been able to procure the type, while on the other hand repeated attempts, extending over many seasons, to hybridize *cardinalis* with *psittacinus* and its allies have uniformly failed. This is the experience of more than one European investigator, and may be taken to almost conclusively settle the matter.

G. oppositiflorus, with its tall growth and many-flowered spikes, often opening eighteen to twenty-four blooms almost simultaneously, together with its delicate peach and white tinting, seems a most promising parent for producing fine whites and light tinted varieties of the exhibition type, but our own profuse trials, as well as the results of many contemporary breeders show an appalling amount of chaff to very few grains of wheat. The results of the first two generations of hybridity are almost *nil* in a decorative sense, but the third consecutive pollination with the best modern white and very light kinds has developed some very pretty and hopeful new varieties.

The looked-for high-class pure white has not come by this means, though an almost stainless *oppositiflorus* was used at the beginning and rigid selection since maintained. Really clear whites have appeared from *psittacinus* and *dracocephalus* hybridized with *oppositiflorus*, showing very strong pollen influence, but they have little vitality and low powers of perpetuation. *G. floribundus* appears the more promising of the two as a parent, though inclined to transmit red coloring to its seedlings. Its hybrids are more likely to bear flowers facing one way than *oppositiflorus*, which takes its name from the distichous or two-ranked manner in which the blooms are borne.

The only other useful member of this group known to us is a new one which

came labeled "narrow-leaved species from Swaziland." The corn had evidently been collected when immature and lay dormant two years, at last producing a long spike—thirty-two flowers—of very short and small blooms, pale lilac with feathery markings of a deeper shade. The blooms face one way and open well together. It is a very late blooming sort, but a few hybrids were secured which are now well under way.

All growers of gladioli of the *Gandavensis* type know there is a constant preponderance of the red varieties. The white and light colors tend to degenerate with greater or less rapidity, while the reds increase in number and maintain their vigor. So rapid and complete is the reversion in some instances as to amount to wholesale atavism. Considerable numbers of a choice *Gandavensis* variety have, propagated for generations in the usual manner from cornels, changed in a season so as to closely resemble a typical red and yellow *Gandavensis*. This seems to confirm Mendel's theory of dominant and recessive factors in all hybridizations. Taking *psittacinus* as the dominant, *oppositiflorus* acts in most instances as the recessive type, and tends rapidly to efface itself in favor of its virile partner during reproduction by seeds, and to a lesser degree during extension of a given hybrid plant by cormel or bud propagation.

Gladiolus purpureo-auratus is well known to be the foundation of the popular *Lemoinei* and *Nanceianus* strains of commercial varieties and *G. Papilio* of the "blue" *Lemoinei* kinds. These latter comprise a number of attractive heliotrope and purple-blue shades in the typical hooded form of the parent. *Papilio albus* is a handsome, slender-growing variety, reproducing itself perfectly from seed. It is very pure white in color with a crimson purple blotch. Crossed with the best whites among the *Gandavensis* and *Lemoinei* sections it produces a few attractive and distinct new light garden forms amid a great proportion of inferior ones. We regard it as promising and will continue work among its dilute hybrids, of which we are now approaching the fourth generation.

The species typified by *G. Saundersii* are of the first importance. *Saundersii* in the hands of Herr Leichtlin gave us the magnificent strain known in commerce as *Childsii*, still of the very highest commercial value, and the large-flowered, brilliantly colored *Nanceianus* sections, produced by the Messrs. Lemoine by crossing *purpureo-auratus* hybrids with the new species. Leichtlin used pollen from the finest procurable *Gandavensis* varieties on *Saundersii* and the result is a class of gigantic, richly colored kinds mostly of red tints, with widely expanded blooms having a nodding upper segment. When the reverse cross is made, and ovules of *Gandavensis* fertilized with *Saundersii* pollen, the result is far less striking. This has been verified by many thousand personal trials.

G. Leichtlini is a dwarf, early-blooming species with pretty, red flowers having a yellow, mottled throat. It is closely allied to *Saundersii* and the following species, and crosses readily with both. One would consider it a promising breeder from the dainty aspect of its wide-open blooms, but it has in our hands proved quite disappointing. Hybrids with *Gandavensis*, *Lemoinei* and *Nanceianus* types, with very few exceptions, lose individuality, whether the seed or pollen is taken from the species, and are a woe-

fully commonplace lot. Crossed with *Saundersii* or *eruentus*, however, a beautiful and vigorous progeny results, quite intermediate in either case. They are early blooming and, being sterile, are wonderfully profuse in bloom. Lemoine's *Glaieus* *preoces* look much like some *G. Leichtlinii* hybrids, but it is understood that *sulphureus* is a parent to some of them.

Eruentus is a particularly showy species, very distinct, though allied to the preceding both from the botanist's and gardener's standpoint. While vigorous and profuse in bloom, if its requirements are satisfied, it must be considered a particularly "miffy" species for general cultivation. Though known for many years, it no sooner appears in a dealer's catalogue than it is taken out for want of stock. Orders for corns of this species are filled with almost anything but the true article, and much disappointment has resulted among breeders and fanciers in consequence. If healthy corns are planted in nearly pure sand, with a stratum of peat for a root run, kept fairly moist and the plants afforded plenty of sun, they make strong, leafy plants and bloom finely, but resent any suspicion of clay and seldom thrive in rich garden soil.

My European correspondents report indifferent results from crossing *eruentus* with other species and garden varieties, the seedlings falling off from the parents in substance or coloring. This is our own experience in the main, but the first batch of hybridized seedlings yielded the truly magnificent variety since known as *G. hybridus princeps*. It came from seed of *eruentus* × *Childsii*, the *Childsii* being as above noted, *Saundersii* × *Gandavensis*.

It is not necessary to describe *Princeps* further than to say it almost exactly reproduces *eruentus* in its scarlet-crimson coloring, with white and cream featherings in the lower segments, but the flat circular flower is expanded to six inches in diameter both ways, the plant is doubled in size in all its parts, retaining the dark green, lustrous and profuse foliage, and is of a vigor of growth and virility of increase hitherto unknown in the genus. It appears to succeed wherever tested and can doubtless be grown anywhere and in any soil. A peculiarity of *eruentus* in developing its flower spikes after the first buds open is fully retained. When the spike first appears, it is short and blunt, looking as if only a few blooms would develop, but growth proceeds until often nineteen to twenty-two of these immense flowers are open, the last being about as large and perfect as the first. This progressive growth continues in water, if frequently changed, almost as perfectly as on the plant. From two to four blooms are fully expanded at the same time, thus giving a flowering period of nearly five weeks for a plot of *Princeps*, taking into consideration the successive side spikes and extra flowering growth sent up from strong corns. During this period, from the first of August to near the middle of September, a bed of this variety equals in brilliancy an equal expanse of scarlet *salyias*.

Attempts to reproduce *Princeps* by repeating the original cross have always failed, but many good flowers have since resulted, some of which seem worthy of perpetuation. Some odd fawn and ash colors result when crossed with species of the *psittacinus* and *dracocephalus* types. With *oppositiflorus* it gives a soft pink of remarkable profusion of

bloom, possibly valuable for bedding purposes. The potentialities of *eruentus* will not soon be exhausted and it is likely to be frequently heard of in the future.

A few unique species remain, among which *Ecklonii* seems most practical. It is a little plant, growing fifteen to eighteen inches high, with a short spike of star-shaped flowers, dull white, profusely peppered with dark purple brown. It is delicate and likes plenty of heat, but the corns are quite large and are excellent keepers. The first hybrids with *oppositiflorus* and light Lemoine yielded strong plants with long, many-flowered spikes, running into shades of wine and light purple-brown, covered inside and out with characteristic spotting of darker tints. The best of these singular hybrids, pollinized with *Princeps* and large-flowered garden varieties, have developed very striking large kinds with



FROGMORE SELECTED TOMATO.

finely shaped blooms of various pink and wine shades, with the profuse spotting well brought out. They appear well worthy of introduction as soon as sufficient stock is secured.

G. Ludwigi is an odd species of tall and very upright growth. The leaves are strongly plicate, resembling young palm fronds, and are quite hirsute, the pubescence being most strongly marked on the flower spike. The many flowers are dull salmon-pink, small and poorly opened. They are quite ventricose in form and very late in appearing. Crossing with *eruentus*, the only species we could manage to get in bloom at the same time, has improved the form, enlarged the size, brightened the color and advanced the season of the bloom, while removing most of the pubescence from the plant, which is still very upright and plicate in foliage. It is not a promising species to work from, but we hope to keep at it until real garden improvement is obtained or the successive dilute hybrids become sterile.

A most distinct and beautiful little *gladiolus* species was sent us three years

ago by Herr Leichtlin, whose collector found it among high cliffs in a little known part of Madagascar. It is not larger than a *freesia* in growth and produces good-sized and elegantly formed blooms of pure bright yellow. The yellow is as good as the best jonquil or trumpet narcissus, and not the pallid, greenish tinge usually found in the genus. It is a winter bloomer and our best efforts have been made to switch it around to get summer flowers, so as to connect with yellow garden kinds. The only species we have had an opportunity to cross it with is *igneus*, of the *psittacinus* group. One viable seed was secured, which has just produced a blooming plant. No yellow coloring appeared, the wide open blooms being quite clear salmon. It is attractive in make-up and may be of future service, though devoid of decorative value. If the yellow Madagascar species is ever obtained in quantity it will prove a treasure for winter blooming. The little corns resemble those of summer-blooming kinds and are good keepers.

It might be supposed that during sixteen years of active hybridization among *gladiolus* species, resulting in over 150,000 seedlings, many commercial varieties would be produced. Although we have found beautiful and promising novelties in this mass of hybrids and variety crosses, only two so far have been thought worthy of naming and commercial introduction. One is the *Eruentus-Saundersii-Gandavensis* hybrid above mentioned as *Princeps*. The other is a direct cross between *purpureo-auratus* and *Saundersii* known in a limited way in the trade as *Lord Fairfax*. It produces a long, curving spike of Indian-red blooms with a yellow and purple spotted throat. These are often five to seven inches across, and look like *hippeastrum* blooms arranged in a lily of the valley manner.

Frogmore Selected Forcing Tomato.

The photograph reproduced herewith shows a cluster of this favorite forcing variety grown at the Iowa State College, Ames, Iowa, which set remarkably well. The *Frogmore Selected* has proven one of the best croppers and best sellers of the past two seasons. I am indebted to Professor Irwin for the picture.

G. C. W.

Covering for Winter Protection.

At this season the consideration of what is hardy, how to prevent winter-killing and where to set out various ornamental additions for best results is uppermost in the mind of the successful gardener. Winter-killing is much misunderstood; perhaps no one knows all about it, but there are a few facts which we know to be essential to success and which are continually disregarded in the haste to cover plants for the winter.

The most important of all is to secure the proper ripening of the season's growth and the formation of the buds for next season. It is very common to maintain a succulent growth by means of watering, retarding the proper ripening until severe weather destroys the possibility. To cover such a plant harbors mildew and creates a condition favorable to other diseases equally destructive. Covering such a plant for an exceptionally cold day will help, but a permanent covering before it has reached its natural winter condition is dangerous.

Plants or bulbs that are transplanted this fall should have a good covering of leaves over the soil in which they are planted, thereby conserving the warmth and moisture of the soil to facilitate the formation of roots on bulbs, or the healing of roots on other plants, so that they will be in the same condition before the final freeze-up as are the plants which were not disturbed. The mistake commonly made in fall planting is in being too late to insure these conditions.

The exposure given plants, their proximity to buildings, whether open to full sun on stem, branches or the surface of the ground, or the nature of the soil in which they are planted, and so forth has most to do with winter-killing. This becomes quite complicated when gone into thoroughly, but there is one very common blunder by which many plants fully capable of withstanding the climate are winter-killed.

We frequently notice on a cold winter's day, the snow thawing in some sheltered position, showing the extreme differences of temperature within the radius of a few feet. Where a plant is thus baked on the top, while the snow water runs into the ground, enveloping the roots in a solid, air-tight mass of ice and soil, the plant is sure to suffer, particularly if it be a smooth-barked tree or shrub. Rough-barked plants are better equipped by nature. Protection from the sun is almost always desirable. Thatching with straw, when put on loosely, is best, as it holds air.

Most important of all is to secure perfect drainage of the soil, to keep it sweet and well aerated, with a surface drainage that will prevent the accumulation of ice, bearing in mind constantly that the drying of the top and smothering of the roots are to be guarded against.

C. B. W.

The Kansas City Premium List.

Advance sheets of the premium list for the Kansas City exhibition, November 3 to 8, show that the same liberal spirit prevails which made last year's exhibition so pronounced a success. The management has provided 158 classes. On the opening day chrysanthemums in pots, carnations in pots, miscellaneous plants and cut chrysanthemums will all be staged for good premiums. Special features of the day will be vases of 100 chrysanthemums of any one variety for prizes of \$75, \$50 and \$25; also vases of 100 American Beauties for prizes of \$150, \$100, \$75, \$50 and \$25.

Tuesday is carnation day. Liberal premiums are also provided for classes of ninety-six, seventy-two, forty-eight, thirty-six, twenty-four, eighteen and twelve cut chrysanthemums displayed on mossed boards.

Wednesday is set apart for roses, with classes for twenty-five Beauties, forty, twenty-five and twelve teas. A special premium of \$200 is provided for the best display of not less than five varieties.

The dinner table decorations will be put on Thursday and Saturday. Premiums will be awarded each day, \$800 in all. Friday there will be \$250 for four floral designs, American flags ten feet long. Saturday is seedling day, with extremely liberal premiums for novelties.

LADONIA, TEX.—The parties interested in the Stonewall Nurseries here are building a greenhouse 20x90 on a six-acre tract at Greenville. The new place will be conducted as a branch establishment.

Chicago.

SUPPLIES SHORTEN AND THE DEMAND INCREASES.—WEATHER REFLECTED IN CUTS OF ROSES AND CARNATIONS.—CHRYSANTHEMUMS RETARDED.—VIOLETS IN PLENTY.—STORE OPENINGS MAKE GOOD BUSINESS.—DOINGS OF WHOLESALERS AND RETAILERS.—PERSONAL MOVEMENTS.

Early in the week the market suffered a radical reversal of form, principally as the result of a period of very dismal and unproductive weather. Receipts from the immediate locality were much restricted, and the shortening of cuts seemed to act as a stimulus to demand. A large number of store openings have occurred during the week and great quantities of cut flowers have been required for these events, both for decorative purposes and for presentation to visitors. For the latter use the short-stemmed stock has sufficed and it has in consequence found a better market than previously. While the production of Beauties has not been curtailed to any great extent, the demand has been brisk and the stock selling lively at very fair prices. More of the medium length could easily have been used, as the quality is excellent. Brides and Bridesmaids have not been in anything like the supply noted a week ago. Late telegraphic orders have frequently failed of being filled, and prices, while they have not advanced, have stiffened to a noticeable degree. The Ivory rose is coming in very nicely and sells well. Chateaux and Liberty are wanted for fine work, while La France is in demand, but limited in supply. The most noticeable shortage of the week was in carnations. Production receded more on this item than on anything else and \$3 per hundred was easily obtainable for the best grade of stock, with anything presentable bringing \$2 per hundred. But this is a condition not likely to last more than a few days, for increased production is certain with a few days of bright sun. Chrysanthemums are coming along, but are somewhat later than usual because of the cool, dark weather. Fitzwygram is as yet about the only variety available, but of this some of the growers are entirely cut out. Violets are now in daily receipt, but in none too active demand. Quality is all that could be expected at the season. The store openings have had their effect on the greens market, asparagus being in particular demand for these affairs.

This has been opening week on State street, but of overshadowing importance has been the function at Field's, where the wonderful new store, and the older sections as well, were in gala attire. An elaborate scheme of decorating with lights and artificial flowers was executed by the store decorators, but the Wittbolds did the work which was of principal interest to florists, using something like a hundred cases of wild smilax and over 4,000 of their largest palms, ferns and cycads. The cut flowers were supplied through McKellar & Winterson and Monday morning's stock ran above \$2,000. For the first day of the opening there were used 5,236 Beauties, 2,700 Brides, 3,100 Bridesmaids, 1,100 Meteors, 12,800 carnations, 600 asters, 800 gladioli, quantities of asparagus and smilax and some miscellaneous stock. It was a big task to get together so much material and since the opening day enough fresh stock has been required to keep up the display. One vase of 200 Eucharist carnation was an attraction, billed out at 10 cents per bloom. Field's have done some wonderful adver-

tising for the opening and it is said that not fewer than 300,000 people a day have admired the display this week.

When down at New Castle last week E. C. Amling found all the growers with stock in fine shape. They have not been afflicted with the dismal weather which prevailed here in the end of September. Mr. Amling also visited Marion, Ind., and took a look at the places of F. W. Herleman, J. W. Bernard, the Marion Floral Company and Gunnar Teilmann, all of whom are well satisfied with the season's prospects. At the latter place there is a new carnation known as Marion Beauty, which impresses visitors very favorably. It is of Roosevelt color, but larger. The plant is large and vigorous, the stem long and strong, and from all appearances it is very productive.

Mrs. E. F. Winterson has been ill with blood poisoning for two weeks. Last Sunday night a severe surgical operation was performed, from which she is rallying steadily if not rapidly.

Mangel and Johnson have divided up their business interests, Mangel taking the Wabash avenue store and Johnson the Forty-seventh street place and the department store stands.

The Vaughan's Seed Store people will go to Western Springs Sunday to visit the greenhouse force. About fifty are expected to go, on the 11:40 train on the Burlington.

Geo. Reinberg has gone to Larchwood, Iowa, for a visit with relatives, and will go on into South Dakota before returning.

Wm. Ellison, of St. Louis, is in town acting as the purchasing agent for two or three of the St. Louis retailers.

H. Coatsworth has returned from New Castle, where he has been inspecting the establishment of Bentley & Company.

Hunt's have been mailing a very attractive catalogue this week.

John Zeck, of J. A. Budlong's, has been at St. Louis this week.

Visitors: C. B. Whitnall, Milwaukee; Mrs. E. Suder, Toledo, O.

Boston.

CUTS INCREASE BUT QUALITIES DETERIORATE.—ROSES COVERED WITH MILDEW.—DAHLIAS MAKE THE GARDENS GAY.

The past week has seen a very heavy increase in the cut of roses and carnations, which has been accompanied by the usual depression of values and accumulation of stock in wholesalers' hands. Asters have begun to run low, however, and this item will give no more solicitude to those whose business it is to keep the stock moving along as fast as it grows. Roses are of inferior quality. Warm, dark, foggy weather has been getting its work in and much of the material received during the past few days is an object lesson in the universality of mildew. No frost has, so far, disturbed the serenity of suburban life in this neighborhood. Gardens are gorgeous with fall-blooming flowers and dahlias are especially fine. Not for many years have we had so favorable a season for the dahlias and their splendid effect in many gardens this fall should have a stimulating effect on the demand for this showy class of flowers for next season's planting.

Several meetings have recently been held by growers unable to get stalls at the Park Street market. N. F. McCarthy made a proposition to devote his immense basement to market purposes, but, on assurance from the old market corporation that they will secure new and larger

quarters immediately, Mr. McCarthy's proposition was not accepted although extremely favorable. A new and independent organization has been formed with Dr. Rogers, South Sudbury, as president, and Winfred Wheeler, Concord, secretary and treasurer.

W. E. Doyle is having a fine show conservatory erected in the rear of his Boylston street store, by Hitchings & Company.

Visitors: Alfred Dimmock and F. Sander, Jr., St. Albans, England; J. D. Eisele and J. D. Clark, Riverton, N. J.

Philadelphia.

BUSINESS SHOWS GREAT IMPROVEMENT.—GOOD STOCK IN VERY BRISK DEMAND.—DAHLIAS HAVE PLACE OF THEIR OWN.—MARKET PROJECT MAKING PROGRESS.—NOTES WITH THE WHOLESALERS.

There has been much more activity the past week. Business has brisked up amazingly all along the line, there being a demand for all good stock; in fact, one has to be constantly on the spot to get it. The quality of everything is improving, with the exception of Bridesmaids, which seem to be getting pale, probably on account of the bad weather, we having had a great deal of rain. Beauties can now be had with stems four feet long, while the Queen of Edgely shows a remarkable growth for so early in the season. Carnations are gaining and some very nice flowers are seen. Crocker and Joost are the best pinks, with Hill best for white. Dahlias still hold the boards for the showy flower to take the place of asters or in fact supply a demand that they themselves seem to have created. All the commission houses are handling them and doing well. S. S. Pennock gets an express wagon load from Peacock's farm with every train and one shipment rarely holds out until the next arrives. Prices range from \$1 to \$4 per hundred. Violets are improving but are only good for the day received. The first doubles are in and the best that can be said of them is that they are sweet when they arrive; 50 cents per hundred is the price.

The market project is moving along nicely. Ten per cent of the capital stock has been paid in and the charter is expected next week. The date for the opening has not been fixed as yet but can not now be far off. The phenomenal price of choice of stalls at the Boston market has set the Philadelphians thinking and stockholders here are no doubt hoping their project will attain some such degree of popularity before many years go by.

S. S. Pennock has completed his addition for the ribbon department, which is now all located permanently on the second floor and occupies a floor space of 1,000 square feet. Over \$15,000 worth is now carried in stock.

Leo Niessen says his sales are far in advance of last year and the outlook ahead is very bright. He will be especially strong on Beauties and valley the coming season.

The palm men are still busy shipping. The demand for good latanias finds the stock limited. Some growers say they take up too much room to be profitable.

Dumont & Company are first in with cosmos, with which flower they do well. This must be an early sort, as the tall growing kind is only in bud as yet. K.

DULUTH, MINN.—Henry Eischen, of Eischen Bros., has been to Chicago to inspect the large ranges of greenhouses there preparatory to his firm's building a considerable addition to its range.

New York.

STOCKS INCREASING AND VALUES TEND DOWNWARD.—ROSES SHOW EFFECT OF WEATHER.—VIOLETS PLENTIFUL BUT POOR.—STORE OPENINGS TAKE MUCH STOCK.—VARIOUS NOTES.

The quantity of flowers received daily at the wholesale marts is on the increase rapidly under the influence of the advancing season and the muggy weather which has prevailed for nearly two weeks. Mildew is abundant on roses, especially those of the smaller varieties. Carnations are multiplying fast, with values on the down grade, and chrysanthemums are in sufficient supply to replace the rapidly-waning asters. Violets are overstocked as a rule but occasionally there comes a day when they sell out well, as was the case last Saturday, although the quality is such as the growers formerly threw away as valueless. The receipts of dahlias are enormous. They are now used by many of the stores, even in the fashionable sections, for showy work and the brilliant varieties of the cactus-flowered class are in fair demand.

The opening of the big new department store of Saks & Company, on Broadway, between Thirty-third and Thirty-fourth streets, called for a great quantity of flowers last Monday and sufficed to relieve the market in a most gratifying manner.

The Burgess Fuel Oil Burner Company is preparing to give demonstrations of the adaptability of their invention to greenhouse boiler heating, at the office of Thos. W. Weathered's Sons on Marion street.

Schloss & Company are introducing a new line of chiffon for florists' use which is a heavier fabric than heretofore offered and better adapted to retain its shape in knots and bows.

J. W. Withers is very sick with congestion of the lungs.

Visitors: Mrs. Williams, Pittsburg; J. N. Champion, New Haven, Conn.

Toronto.

NUMEROUS WEDDINGS CAUSE HEAVY CALL FOR CHOICE MATERIAL.—WIDE RANGE OF STOCK IN MARKET.

The many fall weddings are taxing supplies and stock of all kinds is scarce. The recent heavy rains have spoiled the asters and it makes a run on carnations, roses and other flowers. In quality stock is again first grade. Some very good Beauties are coming in, nice, long stems, selling at \$20 per hundred. A few nice Liberty and plenty of good Bridesmaids, Brides and Meteors are quoted at \$6. Morgan and Perle are also in the market but not sufficient to supply the demand. Chrysanthemums are no longer a rarity, as yellow and white can be seen in most of the stores, and all growers seem to have violets in quantity. Carnations are more plentiful, having good stems, and most orders are being filled. A good many dahlias are still coming in, cool weather being very beneficial to them, and they prove very attractive in store decorations.

Dunlops had the Osborn-Barvick wedding, where flowers were lavishly used. In the house was a very large stairway, and Kiff's adjustable vases were used to advantage.

Charles Turp is sending in some good Ethel Crocker. The flowers are exceptionally fine and stems a very good length for this time of the year.

Geo. Manton is cutting some good Beauties and tea roses from his place in Eglinton. H. G. D.

Meetings of Florists' Club.

The accompanying list gives the cities in which there are active florists' clubs. Following the name of the club is the place of meeting, the day of meeting, the hour and the name and address of the secretary:

BALTIMORE, MD.—Gardeners' Club of Baltimore, Royal Arcanum building, 18 W. Saratoga street. Second and fourth Monday of each month, at 8 p. m. John J. Perry, Sec'y, Gay and Eager streets.

BOSTON, MASS.—Gardeners' and Florists' Club of Boston, Horticultural Hall. Meets second Tuesday of each month. W. E. Fischer, Sec'y, 18 Union Terrace, Jamaica Plain, Mass.

BROOKTON, MASS.—Brookton Gardeners' and Florists' Club, store of W. W. Hathaway, Times Building. First and third Tuesday of each month, at 8 p. m. W. W. Hathaway, Sec'y, Brookton, Mass.

BUFFALO, N. Y.—Buffalo Florists' Club, 481 Washington street. Second Wednesday of each month, at 8 p. m. Wm. Legg, Sec'y, 1410 Delaware avenue, Buffalo.

CHICAGO, ILL.—Chicago Florists' Club, Handel Hall, 40 Randolph street. Second and fourth Wednesday of each month, at 8 p. m. George Wienhoeber, Sec'y, 413 Elm street, Chicago.

CINCINNATI, O.—Cincinnati Florists' Society, Jabez Elliott Flower Market. Second Saturday of each month, at 8 p. m. Frank W. Ball, Sec'y, 437 Main street.

CLEVELAND, O.—Cleveland Florists' Club, Progress Hall, 244 Detroit street. Second and fourth Monday of each month, at 8 p. m. Isaac Kennedy, Sec'y, Woodchife, Lake avenue, Cleveland.

DENVER, COLO.—Denver Floral Club, 323 Charles Block. Second and fourth Friday of each month, at 8 p. m. F. T. Rushmore, Sec'y, 2316 Franklin street.

DETROIT, MICH.—Detroit Florists' Club, Cow- Building, Farran and Gratiot avenue. First and third Wednesday of each month at 8 p. m. J. P. Sullivan, Sec'y, 214 Woodward avenue.

HARTFORD, CONN.—Hartford Florists' Club. Second and fourth Tuesday of each month at 8 p. m. J. F. Coombs, Sec'y, 688 Main street.

INDIANAPOLIS, IND.—State Florists' Association of Indiana, Commercial Club rooms, Indianapolis. First Tuesday of each month, at 8 p. m. H. Junge, Sec'y, 456 E. Washington street, Indianapolis.

MONTREAL, QUE.—Montreal Gardeners' and Florists' Club, Alexandria rooms, 2204 St. Catherine street. First and third Monday of each month. W. H. Robin, Sec'y, 23 Crosse street.

NEW YORK, N. Y.—New York Florists' Club, Elk's Hall, 19 West Twenty-seventh street. Second Monday of each month, at 7:30 p. m. John Young, Sec'y, 51 West Twenty-eighth street, New York.

OMAHA, NEB.—Nebraska Florists' Society, City Hall. Second Thursday in each month at 8 p. m. Louis Henderson, Sec'y, 1519 Farnam street, Omaha.

PHILADELPHIA, PA.—Florists' Club of Philadelphia, Horticultural Hall, Broad street above Spruce. First Tuesday of each month, at 8 p. m. Edwin Lonsdale, Sec'y, Wyndmoor, Philadelphia, Pa.

PITTSBURG, PA.—Pittsburg and Allegheny Florists' and Gardeners' Club, at rooms of Pittsburg Cut Flower Co., 504 Liberty street. Second Thursday of each month, at 8 p. m. T. P. Langhans, Sec'y, 504 Liberty street, Pittsburg.

PROVIDENCE, R. I.—Florists' and Gardeners' Club of Rhode Island, 96 Westminster street, Providence. Second Thursday of each month at 8 p. m. Alexander Reenie, Sec'y, 41 Washington street, Providence.

RICHMOND, IND.—Richmond Florists' Club, Commercial Club rooms. First and third Friday of each month. H. C. Chessmann, Sec'y.

SALT LAKE CITY, UTAH.—Salt Lake Florists' Society, office of Huddart Floral Company, 214 E. Second South street. Second and fourth Friday of each month. P. T. Huddart, Sec'y.

SAN FRANCISCO, CAL.—Pacific Coast Horticultural Society. First Saturday and third Monday of each month. Thos. H. Munroe, Sec'y.

SEATTLE, WASH.—Seattle Commercial Horticultural Club, First and Cherry streets. First Wednesday of each month. Wm. Hopkins, Sec'y, 822 First avenue.

ST. LOUIS, MO.—St. Louis Florists' Club, Odd Fellows Hall No. 2, Ninth and Olive streets. Second Thursday of each month, at 3 p. m. Emil Schray, Sec'y, 1101 Pennsylvania avenue, St. Louis.

TORONTO, ONT.—Toronto Gardeners' and Florists' Association, St. George's Hall, Elm street. Third Tuesday of each month, at 8 p. m. W. C. Jay, Sec'y, 438 Spadina avenue.

UTICA, N. Y.—Utica Florists' Club, 183 Genesee street. First Thursday of each month at 8 p. m. J. C. Spencer, Sec'y.

WEST HOBOKEN, N. J.—North Hudson Florists' Club, store of H. C. Stenhoff, Hudson boulevard, West Hoboken. First Tuesday of each month, at 8 p. m. Geo. F. Rogge, Sec'y, 616 Washington street, Hoboken.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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The Advertising Department of the AMERICAN
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and dealers in wares pertaining to those lines *only*.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

Look out for the freeze, due any night
now.

Don't be in too big a hurry to unload
the Boston ferns this fall; they have lost
none of their popularity.

PAINS to raise the grade of your stock
will be effort well invested; in cut flowers
one good bloom is worth two poor ones,
no matter what the item or the season.

Officer.

ED. AM. FLORIST:—Enclosed is a check
for \$1 for the FLORIST another year.
We could not do without the FLORIST;
wish it came twice a week.

Van Wert, O. C. W. McCONAHEY.

Greenhouse Building.

Greensburg, Pa.—Joseph Thomas, five
houses.

Cincinnati, O.—Eden Park, one plant
house.

Toughkenamon, Pa.—C. P. Chambers,
house 35x120.

Lapeer, Mich.—W. H. Watson, house
24x120, three propagating houses.

Waban, Mass.—Herbert Kimball, one
house.

Nichols, Conn.—J. B. Nichols, one
house.

Cohasset, Mass.—Eugene N. Foss, con-
servatory.

Schenectady, N. Y.—W. C. Eger, rose
house 24x90.

House and Frame.

ED. AM. FLORIST:—Will you kindly
advise me in the matter of heating a
greenhouse 14x40, eight feet to ridge,
even span, sides four feet high, with two
feet of glass on south side opening into
four feet of sash, double boarded north
and east with shed at west end. I have
a Model Heating Company's sectional
hot water boiler for 1,200 feet of radia-
tion and will likely have to use wood and
soft coal. How many returns and what
size pipe will be best if I use a 3-inch flow
in order to maintain 48° at night and 43°
under the sash, Philadelphia climate?
Should the flow ascend from the boiler to
the end of the house and will it be safe to
tap a feed pipe on to a return? I wish
to run one return in the sash. Will it be
well to run the north returns against the
north wall under the 4-foot bench?

S. S.

In addition to the 3-inch flow, use
eight 1½-inch returns in the house and
two 1½-inch in the frame. A 2½-inch
flow would answer. This can be run

downhill with the expansion tank con-
nected at the highest point. The water
supply pipe can be connected at any con-
venient place.

L. R. TAFT.

Coming Exhibitions.

[Secretaries are requested to supply any omis-
sions from this list.]

BOSTON, MASS., November 6-9, 1902.—Chrysan-
themum show Massachusetts Horticultural Soci-
ety. W. P. Rich, Sec'y, Horticultural Hall, 360
Massachusetts avenue.

CHICAGO, ILL., November 11-15, 1902.—First
annual exhibition Chrysanthemum Society of
America and twelfth annual exhibition Horti-
cultural Society of Chicago, to be held jointly. E.
A. Kanst, Assistant Secretary, 5700 Cottage Grove
avenue, Chicago.

KANSAS CITY, MO., November 3-8, 1902.—Flower
show Convention Hall Directors, Kansas City, Mo.

LENOX, MASS., October 23, 1902.—Fall exhibition
Lenox Horticultural Society. F. Herremans, Sec'y.

LOUISVILLE, KY., November 12-15, 1902.—Chry-
santhemum exhibition Business Women's League.
H. Nanz, superintendent, Louisville, Ky.

MADISON, N. J., November 6-7, 1902.—Seventh
annual flower show Morris County Gardeners' and
Florists' Society. C. H. Atkins, Sec'y, Madison,
N. J.

MARSHALL, TEX., November 13-14, 1902.—Annual
flower show East Texas Flower Association. W.
L. Martin, Sec'y, Marshall, Tex.

NEW HAVEN, CONN., November 11-13, 1902.—
Annual flower show New Haven Horticultural
Society. Thomas Pettit, Sec'y, 316 Orange street.

NEW YORK, N. Y., October 30-November 6, 1902.—
Annual exhibition New York Florists' Club.
John Young, Sec'y, 51 W. Twenty-eighth street.

PHILADELPHIA, PA., November 11-15, 1902.—
Annual autumn exhibition Pennsylvania Horti-
cultural Society. David Rust, Sec'y, Horticultural
Hall, Broad street below Locust, Philadelphia.

PROVIDENCE, R. I., November 13-14, 1902.—
Chrysanthemum exhibition Rhode Island Horti-
cultural Society. C. W. Smith, Secretary, 27-29
Exchange street, Providence.

ST. PAUL, MINN., November 3-5, 1902.—Chrysan-
themum and orchid exhibition Ladies Auxiliary of
the Northwestern Manufacturers' Association.
Mrs. A. P. Moss, Sec'y.

TARRYTOWN, N. Y., November 11-13, 1902.—
Fourth annual exhibition Tarrytown Horticultu-
ral Society. Edw. W. Neubrand, Sec'y, Tarry-
town, N. Y.

Chrysanthemum Society of America.

WHAT THE PRESIDENT SAYS.

"When the hurly-burly's done, when
the battle's fought and won" among our
eastern growers in their several cities,
there comes the great show in Chicago,
November 11 to 15, and the convention
of the C. S. A. The time is fast approach-
ing and the moment is opportune for
reminding all growers of this important
occasion. There are now so many chrysan-
themum shows held each year that our
individual interest and support usually
centers in the show of our own immediate
locality, but a national importance
attaches to the Chicago Horticultural
Society's show this year. Chrysanthemum
growers therefore, throughout the
country should make a united effort, both
by exhibiting and by their presence, first
to make the largest and most complete
exhibition of this flower we have ever
seen and next to swell the ranks of mem-
bership in the national society and
launch it safely on a prolonged voyage
with every important city scheduled as
a future port of call.

A great show in Chicago is already an
assured fact thanks to the comprehensive
and liberal schedule drawn up and dis-
tributed several months ago. But out-
side of the actual competitive classes
there are ways and means by which we
may amplify the show and materially
enhance its scope. If limitations of dis-
tance debar some of us in the east from
entering in competition, we can at least
contribute an exhibit and, small though
it might be, the aggregate of a number
of growers would be considerable. We
want representation from every possible
district. It is almost needless to point
out what a golden opportunity is here
presented for a great assemblage of new
varieties present and prospective, and all

who have them should make a timely
note of the fact and endeavor to show
them at Chicago.

Last but by no means least we want
attendance from every section, and an
early intimation of intention to attend,
so that reduced rates of travel may be
secured. An invitation has already been
extended to the writer, and will be
tendered to the C. S. A. at the proper
time and place, for a chrysanthemum
convention in an eastern city next year,
but sufficient for the present is the com-
ing convention and it is "up to us" to
make this new departure in the policy of
the C. S. A. all that it should be. A suc-
cessful November meeting is essential
to the life of the C. S. A. in the future.
Let us combine to make the first one it
holds command attention and merit sup-
port hereafter. A. HERRINGTON, Pres.

Advertising for Retail Florists.

In the last number of the AMERICAN
FLORIST I find that the subject "Adver-
tising for Retail Florists" is commented
upon by several florists whose names are
quite familiar to us. Part of these com-
ments refer to what I said or left unsaid
at the convention at Asheville, and I feel
that they have drawn a few more sparks
from me.

Says Mr. Kift: "Advertising the flower
store will always be a problem." Mr.
Kift is right, but problems arise and are
invented to be solved. Since advertising
is such an interesting, alluring, and some-
times such a fascinatingly expensive
problem, we are all tempted more or less
to determine whether the result is profit-
able or not.

To begin, we must remember that each
florist's problem is somewhat different
from another's, and therefore his answer
will be different from the others. The
propositions involved may vary much in
some points and may coincide in others.
For example, the businesses which we
wish to advertise are in different parts
of the country, and we find that business
is done on a larger and more generous
scale in the older and more wealthy sec-
tions. These older sections will support
a character of advertising which would
be too expensive in other parts.

In the larger cities there is competition
with many florists, whereas in the smaller
cities the lack of aggressive competition
is balanced by a smaller field for business.
The florist of the smaller city has there-
fore less need for advertising because his
business house is before the eyes of a
large part of the citizens. Again, the
location and facilities of the city florist
are much to be considered. If the busi-
ness is in the heart of the retail business
district, visitors and passers-by are also
attracted, beside the regular customers,
and such businesses have found it profit-
able to advertise in theater programmes,
etc. But, on the other hand, the business
may be in close proximity to a residence
district, and the conservatories in con-
nection are well stocked with decorative
house plants, and most of your customers
are regular ones, then you must study
more direct means of advertising.

Another consideration is, what class of
people do you wish to do business with
especially? Do you wish to do a large
volume of business at a moderate rate of
profit, or do you wish to devote your
attention to a class of people who pay
well, but who are very exacting in their
tastes? If you choose to sell flowers at
a moderate profit, then your "service"
cannot be an expensive one, and if you
think that you can best handle a more or

less exclusive trade, with the idea that others will patronize you because of your position, then you must have appointments, a service, facilities and flowers which will advertise your intentions.

The more definitely that you define your policy, the more closely must you study the means by which you will advertise your business. If a two headline advertisement in a newspaper brings good results, very well, and the florist who would find such means unprofitable because thousands would read the advertisement who could not afford to buy flowers as he would present them, and those who could, would not care to be advised in that way, has no criticism to offer.

For a florist to solicit trade at retail (it is common in many wholesale businesses) would not so much as be considered by some, yet the Daniels & Fisher Company, of Denver, claim that is one of their most effective trade bringers. This all goes to prove that our problems are quite different and that the method pursued by one florist is no criterion for another. One florist can make money by dealing with a class of customers with which another could not get in touch at all. Another has tastes and ideas which it is his hobby to exploit and make successful.

Through it all I feel that the florist's business is different from a vast number of businesses, and is similar to but a few of them. The beautiful side of the business, as associated with flowers, must not be forgotten, and its influence should be so strong in our advertising that it may be felt instantly.

GEORGE W. WIENHOEBER.

Minneapolis.

WEATHER UNFAVORABLE TO STOCK.—ROSES AND CARNATIONS SCARCE.—DOINGS OF THOSE IN THE CRAFT.

The weather last week was dark and cloudy, the result being a decided shortage in stock. Tea roses and carnations were hardly to be had at all. Large numbers of Beauties from out of town growers were sent in and sold to good advantage. Greens, both smilax and asparagus, are of excellent quality and find ready sale. A heavy call for white flowers, especially, was experienced. The retailers all report a very busy week.

Hans Rosacher, of Northeast Minneapolis, has just completed planting his carnations. Sickness and a shortage in help have been a great setback to him. He is still marketing sweet peas which are of very good quality for this time of year.

Thomas Lynes is making frequent trips to the Minnesota bottoms for ducks, but as yet he has not secured very large bags.

R. Will is cutting some good carnations from his young stock. C. F. R.

Des Moines.

DOINGS OF THE LAMBERTS.—A WEDDING.—TRADE OPENS EARLY.—STOCK SCARCE.—RUMORS OF NEW ESTABLISHMENTS.

The flower business has opened unusually early this fall, demand being quite active, with short supply of home-grown stock. The wet, cold summer has retarded building and repairing somewhat, so that nearly everybody is behind with work.

Peter Lambert, the veteran in the trade, has retired from active greenhouse work, having become superintendent of Greenwood Park. A handsome cottage

was built last summer for him, and he has moved into it. His son, John D., has taken charge of the greenhouses, and to celebrate the event, took for a life partner last Wednesday evening Miss Kittie Kuhlman. "The boys" in the trade remembered John handsomely on the happy occasion.

There are rumors of ground having been bought for two new greenhouse establishments here. SENEX.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By experienced grower to take charge; roses preferred. References. Address: L. F., care American Florist.

SITUATION WANTED—By first-class floral decorator and designer. Competent to take full charge. All references. F., care Am. Florist.

SITUATION WANTED—By head gardener on private place or public institution. 12 years in the business; age 29, single. Address: J. J., care American Florist.

SITUATION WANTED—By a sober and industrious middle-aged man, capable to take charge of small commercial or private place. Address: H., care American Florist.

SITUATION WANTED—By young Hollander, on large commercial place; six months in U. S.; high wages no consideration. New England states preferred. W. J. S., care Am. Florist.

SITUATION WANTED—As night fireman with florist, vicinity of Cincinnati or southern Illinois; American, age 25, sober and steady. J. T. C., care Gould, 498 W. Federal St., Youngstown, Ohio.

SITUATION WANTED—As assistant decorator or clerk in first-class florist store, by young man, age 22; 7 years in the business. Not afraid of work. Good references. Address: G. W., care American Florist.

SITUATION WANTED—By good all-around man of 20 years' experience in leading establishment in England; married, two children. Copies of testimonials and references on request. H. FIELD, Carberry, Manitoba.

SITUATION WANTED—By experienced gardener and florist; German, married; last four years with Mr. W. C. Egan, Eganville, Highland Park, Ills. State wages. Address: P. W., Box 342, Highland Park, Ill.

SITUATION WANTED—By first-class gardener and florist, single, 27; thorough and competent, sober and industrious, 12 years' experience in all branches; first-class references furnished. Address: No. 395, care American Florist.

SITUATION WANTED—A young lady anxious to learn the florist business; fair stenographer and Remington operator; would like a position with a wholesale or large retail florist of Chicago. Willing to start at low salary. Address: H. A., care American Florist.

SITUATION WANTED—To take charge of estate, private place or public institution, by competent, reliable, landscape gardener and florist; 22 years' practical experience; greenhouses, lawns, trees, shrubbery, vegetables, etc. No. 1 references. Permanent place, with fair wages, looked for. Address: N., care American Florist.

SITUATION WANTED—By Nov. 10th, as head gardener on private place or public institution in California, Oregon or Washington, by young man, aged 25; A. F. grower of roses, chrysanthemums, carnations and general stock, with knowledge of lawn work. At present holds position as florist at one of the leading institutions of the middle west. Address: MIDDLE WEST, care American Florist.

WANTED—To know the address of Prosper Henry, florist. E. R., care Am. Florist.

WANTED—A young man as greenhouse assistant. Address: GEO. A. LINFOOT, Kane, Pa.

WANTED—A man who knows his business, is sober and industrious, to grow roses and carnations. State salary, with board. THOMAS FORTLIS, Hoyt, Pa.

WANTED—Competent, trustworthy man, to run 3,000 feet of glass. State experience and wages wanted with board. UNION CITY GREENHOUSES, UNION CITY, PA.

WANTED AT ONCE—Experienced man for general greenhouse work. Must be well recommended. Steady position and good wages to the right party. Address: J. A. BISSINGER, Lansing, Mich.

WANTED—Greenhouse assistant in commercial place, southern New York state, wages \$20 per month, board and room. State age, experience and where last employed. Address: PERMANENT, care American Florist.

WANTED—Propagator of roses, carnations, etc., must be thoroughly first-class; no other need apply. Also a few growers of roses and carnations for sections. Good wages and steady work. LAKEVIEW ROSE GARDENS, JAMESTOWN, N. Y.

WANTED—To rent, with privilege to buy, established greenhouse business in town of not less than 20,000 population. Place must be in good repair. Correspondence confidential. References exchanged. Possession now or June. Address, stating full particulars: C. O. B., care American Florist.

FOR SALE CHEAP—My entire stock of plants, glass, boiler, Morehead steam trap, pipes and fittings. Inquire for prices at 1317 N. Michigan Ave., Saginaw City, Mich.

FOR SALE—Horizontal tubular boiler 48x15 with plug hat dome and with 39 3/4-in. flues, very suitable for heating hot houses. Apply to WISCONSIN BOX CO., WAUSAU, WIS.

FOR SALE—An old established greenhouse business; entire plant rebuilt; steam heat. With all the ground or part; also with or without residence. Situated in Cleveland, O. A bargain. Address: O. K., care American Florist.

WANTED

Good man, pay \$20 per month and board and washing. Good place for the right man.

Address HOUSTON, TEXAS, Care American Florist.

FOR SALE.

One-half interest in a well established bulb and lily growing business. Stock consisting of about \$8,500 worth of calla, narcissus and other bulbs, including land, etc. Would sell to Seventh Day observer for only \$3,000. The bulbs produce \$1,000 or so worth of flowers annually, besides the income from bulbs. Write for terms. GOLDEN GATE BULB AND LILY FARM, 6660 Shattuck Ave., OAKLAND, CAL.

ANNOUNCEMENT.

The business heretofore conducted under the name of the Laurel Hill Nurseries, has been discontinued. Mr. F. Brunton is no longer manager thereof and has no further connection therewith.

W. F. HAWKINS, Ally., Stockbridge, Mass.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address:

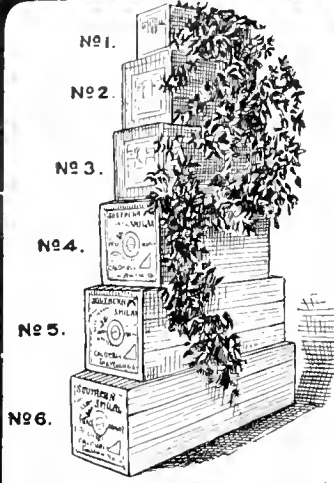
CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

If you want to get the want you want to get, you want to get your want ad into the

AMERICAN FLORIST

Try it now.

Every advertisement represents a genuine want. It pays to answer them.



YOU must be aware that anything you want in the Cut Flower line can be had from

Deamud

While we are now just between Hay and Grass, still our

Beauties, Carnations, Valley and Tea Roses

Are as fine as can be had.

Chrysanthemums will be in very shortly.

J. B. DEAMUD,

51-53 Wabash Ave., Chicago.

Caldwell's Kwality Kounts Brand Wild Smilax now on hand.

E. H. Hunt,

WHOLESALE.....

Cut Flowers

THE "OLD RELIABLE,"

76 Wabash Ave., CHICAGO.

Poehlmann Bros. Co.

Wholesale Growers of

and Dealers in Cut Flowers

All telegraph and telephone orders given prompt attention. 35-37 GREENHOUSES: Morton Grove, ILL. Randolph Street, CHICAGO, ILL.

The F. R. WILLIAMS CO.

WHOLESALE FLORISTS,

Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.

Telephone Connections. CLEVELAND, OHIO.

Bassett & Washburn

76 & 78 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of **Cut Flowers**

GREENHOUSES: HINSDALE, ILL.

RICE BROTHERS

WHOLESALE FLORISTS and FLORISTS' SUPPLIES.

Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.

Special attention given to shipping orders. Send for price list of supplies.

128 N. Sixth St., Minneapolis, Minn.

Wholesale Flower Markets

MILWAUKEE, Oct. 2.

Roses, Beauty, long, per doz.	2.00@3.00
" " med. "	1.00@1.50
" " short "	.50@ .75
" Liberty	6.00@ 8.00
" Bride, Bridesmaid	4.00@ 6.00
" Meteor	4.00@ 6.00
" Golden Gate	4.00@ 6.00
" Perle	2.00@ 6.00
Carnations	1.50@ 2.00
Cosmos	.50
Adiantum	.75@ 1.00
Smilax	12.00@15.00
Asparagus	65.00
Common ferns	.25

The Cincinnati Cut Flower Co.,

437-439 Main St. CINCINNATI, O. **WHOLESALE FLORISTS.**

Consignments Solicited. Special Attention Given to Shipping Orders.

Holton & Hunkel Co.

Wholesale Florists.

457 Milwaukee St., MILWAUKEE, WIS.

PITTSBURG, Oct. 2.

Roses, Beauty, specials	21.00@25.00
" " extras	15.00@18.00
" " No. 1	8.00@10.00
" " No. 2	3.00@ 5.00
" Kaiserin	2.00@ 6.00
" Bride, Bridesmaid	1.00@ 4.00
" Meteor	1.00@ 4.00
" Liberty	2.00@ 6.00
Carnations	.50@ 1.50
Chrysanthemums	8.00@10.00
Dahlias	1.50@ 3.00
Lily of the valley	2.00@ 4.00
Gladioli	2.00@ 4.00
Smilax	8.00@15.00
Adiantum	.75@ 1.00
Asparagus	35.00@40.00
" Sprengeri	2.00@ 3.00

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.

Michigan Cut Flower Exchange.

Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around. BRONZE GALAX, \$1.00 per thousand.

28 Miami Ave., DETROIT, MICH.

FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.) Write, Wire or Phone the Introducers, Caldwell The Woodsman Co., Evergreen, Ala. or their agents: L. J. Kreshower, New York; J. B. Deamud, Chicago; H. Bayersdorfer & Co., Philadelphia; W. F. Kasting, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.

H. G. BERNING

Wholesale Florist

1322 Pine St., ST. LOUIS, MO.

M. L. HENDERSON,

of Laurelbranch, N. C.

is located in the mountains of North Carolina, where as fine a galax leaf grows as grows in the world (green or bronze). Price given on application. Wholesale trade solicited.

Frank M. Ellis,

WHOLESALE FLORIST,

1316 Pine Street, ST. LOUIS, MO.

CONSIGNMENTS SOLICITED.

Galax AND Leucothoes.

Selected, Bright and Brilliant. Wholesale Trade Solicited.....

J. L. BANNER & CO., Montezuma, N. C.

C. A. KUEHN,

Wholesale Florist,

1122 PINE STREET, ST. LOUIS, MO.

A complete line of Wire Designs.

HERRON....

Carnation Grower,

OLEAN, N. Y.

CINCINNATI, Oct. 2.

Roses, Beauty	5.00@25.00
" Bride	2.00@ 3.00
" Bridesmaid	2.00@ 3.00
" Meteor	2.0 @ 3.00
" La France	3.00@ 4.00
" Kaiserin	3.00
Carnations	.75@ 1.00
Lily of the valley	4.00@ 5.00
Asparagus	50.00
Smilax	12.00@15.00
Adiantum	1.00
Common ferns	.15

ST. LOUIS, Oct. 2.

Roses, Beauty, medium stem	10.00@20.00
" Beauty, short stem	3.00@ 8.00
" Bride, Bridesmaid	2.00@ 4.00
" Golden Gate, Carnot	2.00@ 5.00
" Meteor	2.00@ 4.00
Carnations	1.00@ 2.00
Asters	.75@ 2.00
Tuberose	5.00
Lily of the valley	4.00
Smilax	12.50@15.00
Asparagus Sprengeri	1.50
" Plumosus	.75@ 1.00

Pittsburg Cut Flower Co. Ltd

WHOLESALE FLORISTS,

Pittsburg, Pa.

Please mention the American Florist when writing.

THE PROOF is in your own hands

WE HAVE been seeking to impress you with our superior facilities for the proper handling of **YOUR** business. We have sought your patronage with the backing of large supplies of stock and a business organization which has won us the steady support of others in your line. Why not you?

If you are not convinced as to our resources, our supplies of stock (everything in season) or the quality suited to your needs, the proof is in your hands. Send us an order in the ordinary course of business, such an order as would meet your daily requirements. What we most want is standing orders. On such we promise all-season supplies. Right stock at right prices. Send a postal for free weekly price list.

E. C. AMLING,

32-36 Randolph St.

L. Dis. Phones 1999 and 1977 Central.

Chicago, Ill.

The Largest, Best Equipped and Most Centrally Located Wholesale Cut Flower House in Chicago.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

KENNICOTT BROS. CO.

Wholesale Cut Flowers and Florists' Supplies.

42-44 Randolph St., CHICAGO.

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Avenue, CHICAGO.

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.

600,000 FEET OF GLASS. Headquarters for American Beauty.

51 Wabash Ave., CHICAGO, ILL.

FRANK GARLAND,

Wholesale Grower of **Cut Flowers**

SPECIAL ATTENTION GIVEN TO HARDY CUT **FERNS**
55-57 WABASH AVENUE,
Telephone Central 3783 CHICAGO.

It is good business policyto mention the

American Florist

When you write to an advertiser.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER OF

CUT FLOWERS

Wholesale Flower Markets

Chicago, Oct. 3.		
Roses, Beauty, 36-inch stems		3.00
" " 30 " "		2.50
" " 24 " "		2.00
" " 20 " "		1.50
" " 15 " "		1.00
" " 12 " "		.75
" " 6 to 8 " "	per 100	4.00@ 5.00
" Liberty.....		3.00@ 8.00
" LaFrance, Chatenay.....		3.00@ 8.00
" Bride, Bridesmaid.....		2.00@ 5.00
" Meteor.....		2.00@ 5.00
" Perle.....		2.00@ 5.00
" Golden Gate.....		2.00@ 5.00
Chrysanthemums, per doz., \$1.50@2.00.		
Violets.....	1.00@	2.00
Carnations.....		1.00
Lily of the valley.....		4.00
Harrisi, per doz., \$2.00		
Asparagus, per string, .50		
Adiantum.....	.75@	1.00
Common ferns, per 1000, 1.00		.15
Galax leaves, per 1000, 1.25		.15
Smilax, per dozen, 1.25@1.50		

Bentley & Co.

F. F. BENTLEY, Manager,

Wholesale Commission Florists

31-35 Randolph St., CHICAGO.

Consignments solicited.....

LILY OF THE VALLEY.

Extra fine cut Valley every day in the year. Fine cold storage pips. \$1.50 per 100; \$13.00 per 1000.

H. N. BRUNS,

1409-1411 W. Madison St., CHICAGO.

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO.

Send for weekly price list and special quotations on 1000 lots.

JOHN MUNO,

Wholesale Grower and Shipper of **Cut Flowers**

Room 221, 51 Wabash Ave., CHICAGO.

TELEPHONE CENTRAL 3568. All telegraph and telephone orders given prompt attention.

Please mention the American Florist when writing.

GEO. REINBERG,

Wholesale Grower of **Cut Flowers**

Chosee American Beauties.

We will take care of your orders at reasonable prices. Prompt attention.

51 Wabash Ave., CHICAGO, ILL.

Please mention the American Florist when writing.

Chicago Carnation Co.

Joliet, Illinois.

Choice Valley and Orchids

SAMUEL S. PENNOCK,
Wholesale Florist,

FOR OCTOBER WEDDINGS.

Commencing September 29, will be open from 7:30 A. M. to 8:00 P. M., Saturdays included.

1612-18 LUDLOW ST., PHILADELPHIA, PA.

GEO. A. SUTHERLAND,

34 Hawley St., BOSTON.

Telephone 1270 Main.

BEST BOSTON FLOWERS. All Supplies.

An entire floor Devoted to Stock and Manufacturing. Distributing Agent for United States for the wonderful



LETTER, unequalled for design work. Script, any color, 3 1/2c a letter. Block letters, 1 1/2c each. The most elaborate design work to order in a few minutes.

GENERAL AGENTS:

H. BAYERSDORFER & CO., Philadelphia.
REED & KELLER, New York City.

A FULL STOCK OF
SEASONABLE FLOWERS.

CITY HALL CUT FLOWER MARKET

WELCH BROS., PROPS.

9 CHAPMAN PLACE, **Boston, Mass.**
15 PROVINCE STREET.

THE NEW YORK CUT FLOWER CO.

55 and 57 West 26th St.,

WHOLESALE FLORISTS,

Daily Reports. Weekly Payments.

TELEPHONES:
2239 Madison Sq.
2034 Madison Sq.

J. A. MILLANG,

MANAGER.

GEORGE SALTFORD,

Wholesale Commission Florist,

46 West 29th Street, **NEW YORK.**

Fair dealing and prompt returns guaranteed.
Correspondence solicited.

ROVATZOS & MOLTZ

Buy and Sell... **FLOWERS** on Close Margin.

Headquarters, 56 West 26th Street,

WRITE, Opposite Cut Flower Exchange,
TELEGRAPH OR TELEPHONE. **NEW YORK CITY.**

N. F. McCARTHY & CO.

Best Quality

CUT FLOWERS

and Supplies,

Tel. 734 and 84 Main.

84 Hawley St., BOSTON.

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg, 6th Ave. and W. 26th St., New York.

Open for Cut Flower Sales at 6 o'clock Every Morning

DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.

JOHN DONALDSON, Secretary.

Hardy Ferns...

Everything and anything in Florists' Hardy Supplies at lowest prices. Estimates on large orders on application. Prompt delivery.

BOSTON FERN CO., 14 Brattle St., BOSTON, MASS.

Wholesale Flower Markets

BOSTON, Oct. 1.

Roses, Beauty, extra.....	10.00@18.00
" " medium.....	5.00@ 8.00
" " culls.....	.50@ 2.00
" Bride, Bridesmaid, Meteor.....	.75@ 2.00
" extra.....	4.00@ 6.00
" Kaiserin, Carrot.....	3.00@ 5.00
Chrysanthemums.....	6.00@ 8.00
Carnations.....	.50@ 1.50
Asters.....	.50@ 1.00
Gladioli Shakespeare.....	2.00@ 4.00
Lily of the valley.....	2.00@ 4.00
Lilies, Harrisii.....	6.00@ 8.00
" Japan.....	2.00@ 3.00
Adiantum.....	.75@ 1.00
Asparagus.....	50.00
Smilax.....	12.50@18.00

PHILADELPHIA, Oct. 1.

Roses, Tea.....	2.00@ 4.00
" extra.....	4.00@ 8.00
" Beauty, extra.....	15.00@ 25.00
" firsts.....	8.00@12.00
" Queen of Edgely, extra.....	20.00@25.00
" firsts.....	10.00@15.00
Carnations.....	1.00@ 2.00
Lily of the valley.....	3.00@ 5.00
Asparagus.....	25.00@50.00
Smilax.....	12.50@15.00

BUFFALO, Oct. 2.

Roses, Beauty.....	6.00@25.00
" Bride, Bridesmaid, Meteor.....	3.00@ 6.00
Carnations.....	1.50@ 2.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50



HARDY Cut Dagger and Fancy Ferns.

A No. 1 quality \$1 per 1000.
Brilliant Bronze and Green Galax, \$1 per 1000, in 5,000 lots.
Laurel Festooning, 4, 5 and 6c per yrd. Orders by mail, telephone or telegraph promptly attended to. Discount on large orders. L. D. telephone 2618 Main.

HENRY M. ROBINSON & CO., 32-36 Court Sq., Boston.

If it is grown in Florida, we supply it.

Florida grown **CYCAS LEAVES**, fresh or prepared; **PALM LEAVES, TRUNKS, CROWNS, SPANISH MOSS, FLORIDA ORCHIDS, "COONTIE"**, etc., etc.

Seminole Palm Co., Haines City, Fla.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

FANCY OR DAGGER FERNS

1st quality, 75c per 1000. Discount on large orders.

BRONZE OR GREEN GALAX \$1.00 PER 1000.

LAUREL FESTOONING, just the thing for summer decorations, only 4, 5 and 6c per yd. Discount on ferns and laurel in large quantities.



Millington, Mass.
Tel. office, New Salem.

Galax Bronze, \$1.25 per 1000; Green, \$1.00 per 1000. Southern Smilax, best quality, 50 lb. case \$6.00;

35 lb. case \$4.50; 25 lb. case \$3.75. Leucothoe Sprays, bronze and green, assorted sizes, \$1.00 per 100. Sphagnum Moss, \$1.50 per bale. Paimetto Leaves, \$1.50 and \$2.00 per 100.

L. J. KRESHOVER.

110-112 W. 27th Street, NEW YORK CITY.
Telephone call, 597 Madison Square.

Southern Wild Smilax,

Long Needle Pines, Magnolia Leaves, Mistletoe, Holly, Palm Crowns and Palm Leaves.

Orders filled promptly at lowest prices consistent with choice quality.

JOHN S. COLLINS, GENEVA, ALA.

Give Us a Trial. We Can Please You.



Roses, Carnations and all kinds of Seasonable Flowers in stock.

WM. F. KASTING, Wholesale Commission Florist,

481 Washington St., Buffalo, N. Y.
Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

Beauties and Valley Leo. Niessen,

IN QUANTITIES.

On and after Sept. 15th will be open from 7 a. m. till 8 p. m. until further notice.

WHOLESALE FLORIST,

N. W. Cor. 13th and Filbert Sts., Phila.

FOR SEASONABLE FLOWERS

SEND TO

JOHN I. RAYNOR, WHOLESALE COMMISSION FLORIST.

Telephone 1998
Madison Square

49 W. 28th St., NEW YORK.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.

Are supplying the most superb stock of SUMMER FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.

SEND FOR QUOTATIONS.

Walter F. Sheridan,
Wholesale Florist,

Telephone 902 Madison Square.

39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square.



MOORE, HENTZ & NASH

Wholesale Commission Florists,

65 and 57 West 26th St., NEW YORK CITY.

Adjoining New York Cut Flower Co. salesroom. Finest Salesroom in the Trade. Inspection Invited. All business, selling or shipping, strictly commission.

VIOLETS. WILLIAM GHORMLEY, VIOLETS.
Wholesale Commission

Daily Receiver and Shipper of Fresh Cut Flowers.

ORCHIDS, ROSES, CARNATIONS, VALLEY.

Telephones 2100 and 2200 Madison Square.

57 West 28th Street, NEW YORK CITY.

JOHN YOUNG

Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.

51 West 28th St., NEW YORK. Tel. 1905 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN NEW YORK CITY FOR

Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

WM. H. GUNTHER, 30 West 29th St., New York. Telephone 551 Madison Square.

Frank Millang

Open from 6 a. m. to 5. p. m.

Cut Flower Exchange, 55-57 W. 26th St. Phone 299 Madison Square. NEW YORK.

ESTABLISHED 1872.

JOHN J. PERKINS, COMMISSION FLORIST,

Solicits Consignments or Shipping Orders. Satisfaction given in both.

Write for Terms. 115 West 30th St., New York.

Bonnot Bros.

WHOLESALE FLORISTS.

55 and 57 W. 26th St. Cut Flower Exchange, New York.

OPEN 6:00 A. M.

An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.

Traendly & Schenck

NEW YORK CITY,

38 W. 28th Street, Cut Flower Exchange. New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

NEW YORK, Oct. 1.

Roses, Beauty, select.....	12.00@20.00
" " medium.....	5.00@ 8.00
" " culls.....	.50@ 2.00
" Bride, Bridesmaid.....	.25@ 5.00
" Liberty, Meteor, Kaiserin..	1.00@ 5.00
Carnations.....	.50@ 2.00
Lily of the valley.....	2.50@ 3.00
Lilies.....	3.00@ 8.00
Asters.....	.50@ 1.00
Dahlias.....	.50@ 1.00
Chrysanthemums.....	4.00@12.00
Gladioli.....	50@ 1.00
Cattleyas.....	25.0 @35.00
Smilax.....	8.00@10.00
Adiantum.....	.50
Asparagus.....	35.00@50.00
" Sprenger, doz. bun.	2.00@3.00

RELIABLE AT ALL SEASONS.

Best Flowers.

REASONABLE PRICES.

J. K. ALLEN

Telephone 167 Madison Square.

OPEN AT 6 A. M. DAILY.

106 W. 28th St., NEW YORK.

FORD BROS.

Receivers and Shippers of

FRESH FLOWERS,

111 West 30th St., NEW YORK.

Telephone 157 Madison Square.

Julius Lang

53 West 30th Street, NEW YORK.

REPRESENTS THE BEST GROWERS OF

ROSES, CARNATIONS, VALLEY.

TELEPHONE 280 MADISON SQUARE.

ALEX. J. GUTTMAN,

Wholesale Commission Florist,

A full supply daily of the choicest New York and New Jersey

FLOWERS.

62 W. 29th Street, NEW YORK CITY.

Telephone 1738 Madison Square.

A. H. LANGJAHR,

Wholesale Commission Florist,

BEST FLOWERS SHIPPED AT LOWEST NEW YORK PRICES.

19 Boerum Place, Brooklyn, N. Y.

TELEPHONE 939 MAIN.

...GEO. M. KELLOGG...

Largest Grower of... in the West. Cut Flowers

Give us an order and we will please you.

Our Greenhouses at PLEASANT HILL, MO.

Our Store, 906 Grand Ave., KANSAS CITY, MO

LONG DISTANCE PHONE AT EITHER PLACE.

EDW. C. HORAN

47 WEST 28TH ST.:

Tel. 421
Madison Square,

.....NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

THE bean situation continues uncertain.

THE Wholesale Seedsmen's League met in New York October 2.

THE white clover seed crop in south-eastern Wisconsin is almost a total failure this season.

WATERMELON seeds have lately sold at from 20 cents to 30 cents per pound, according to the varieties.

It is said that an offer of 75 cents per pound has been refused for Arlington White Spine cucumber in large lots.

WIRES from California indicate that Yellow Strasburg and Flat Danvers, also Australian Brown, onion varieties are being offered.

A. H. GOODWIN, of Goodwin-Harries Company, Chicago, is in New York, to meet Mrs. Goodwin, who is enroute home from Europe.

MICHIGAN garden beans of wax sorts are reported in some localities at sixty per cent of a crop, green podded sorts, seventy-five to 100 per cent.

THE Braslan Seed Growers' Company will increase the list of vegetable seeds that they will grow the coming season, adding turnip, rutabaga and tomato.

CUCUMBER seed is believed to be scarcer than first anticipated and the belief is common that trade rates on nearly all kinds will go from 75 cents to \$1 per pound.

REPORTED sales of Stowell's Evergreen sweet corn at \$1.65 are believed to be under the market. Considerable anxiety exists concerning general line of about all other varieties of sweet corn.

THE Jerome B. Rice Seed Company, Cambridge, N. Y., has issued an onion crop report as of September 20. They summarize the crop as not to exceed last year and not so good in quality.

REGARDING vine seeds, the opinion prevails that the shortage on muskmelon seed will not be so great as at first anticipated, although trade prices of from 45 cents to 65 cents per pound are mentioned.

AMONG those visiting Chicago September 27 were Albert McCullough, Fred. Barteldes, Max Welhemi, Frank T. Emerson and Jesse T. Northrup. An informal gathering with some of the craft in Chicago was had.

P. H. VAN WAVEREN, senior partner in L. Van Waveren & Company, Hillegom, Holland, died September 12, aged 67 years. He was a pioneer exporter of Dutch bulbs to America, his firm having been established in 1856.

RECENT sales of Alaska peas have been made at \$3.75. This variety, while not so scarce as some, seems to be well up to that figure. The dwarf wrinkled peas seem to be short, Nott's Excelsior possibly being a better crop than American Wonder. These two, including Gems, are now held at \$5 or above, few quotations being made.

SPRINGFIELD, O.—One Harry Brighton, not overly bright but bright enough to know good plants at sight, is in jail for stealing stock of Good & Reese. He has a wife and nine children.

Dutch Horticultural Society.

At the last meeting of the Dutch Horticultural Society, at Overveen, near Haarlem, the following awards were made: A first-class certificate to F. E. Houtvester, Utrecht, for zonale pelargonium H. Mar-



FRANK T. EMERSON.

A prominent Nebraska seed grower and General Manager of the Western Seed and Irrigation Co.

tinet; to J. J. Van Crujningen, Haarlem, for Fuchsia Otto Von Wernigrode. Certificate of merit to J. T. Vander Berg, Jutphaas, for Dahlia President Viger. Botanical certificates to H. D. Willink

Von Collen, Brenkelen, for Lepidostemon pentstemonoides; to C. J. Kikkert, Haarlem, for Epidendrum Medusæ. A silver medal and a gratuity were awarded Wezenburg & Stassen, Leiden, for a collection of 350 varieties of hardy perennials. Groenewegen & Company, Amsterdam, received a silver medal for a collection of 100 varieties of lathyrus and T. E. Houtvester, Utrecht, received a medal for a collection of single zonale pelargoniums. Bronze medals were awarded M. Van Waveren, Hillegom for hardy nymphæas and to T. E. Houtvester, for double zonale pelargoniums.

Tarrytown Horticultural Society.

At the September meeting of the Tarrytown Horticultural Society George Legg and Chas. Eddison were elected to honorary and Homer Hitecock to active membership. Mr. Shader, gardener to J. D. Rockefeller, was proposed for active membership. A large collection of dahlias was the exhibit of the evening and the following were awarded honorable mention for their exhibits: L. A. Martin, of Greenwich, Conn.; David McFarland, of Scarborough; F. R. Pierson and Thos. Cockburn, of Tarrytown. L. A. Martin read an essay on dahlias which was discussed by Messrs. Mooney, Cockburn, Gibson, Martin, McFarland, Pierson and Scott.

Schedules of the annual exhibition to be held in Tarrytown November 11 to 13 are now ready and can be had on application to the secretary, E. W. Neubrand, Tarrytown. H. G. R.

TOUGHKENAMON, PA.—C. P. Chambers is adding a new equal-span house 30x120 feet to his already extensive plant. It will be heated by hot water.

OVER 2,000 ACRES IN CULTIVATION.

Braslan Seed Growers Co.

Growers for the Wholesale Trade Only.
Correspondence solicited. SAN JOSE, CAL.



Field of Long Scarlet Short Top Radish Cutting for Seed Crop 1902.

Strictly New England GROWN SEEDS.

SPECIALTIES—Onion (Southport Globes), Turnip Seed and Sweet Corn, Beet, Parsnip, Carrot, Cabbage. We can answer all questions without flinching as to quality and where grown.

The E. B. CLARK CO., Milford, Conn.

BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.

In Order to Increase Our Supply of



ESTABLISHED 1873.....

UP-TO-DATE stock cuts we will make engravings of any subject desired and sell you electrotypes for thirty-five cents per square inch. This work will be our finest grade of wood engraving, giving the same quality that characterizes our work. Send us photographs, or sketches of your needs or the objects and we will make the engravings direct from them.

We can supply at short notice and at list price any **STOCK ELECTROTYPES** sold by any house if you will send us the number, print or description.

FOR THE SEEDSMAN who desires exclusive engravings we desire to say that we shall still adhere to our principle of protection and shall give his work the same careful attention as in former years. We make every style of engraving and do printing of every description to help the horticulturist to place his products before the buying public in an attractive manner.

Jas. M. Bryant,
Horticultural Engraving and Printing,
706 Chestnut St., Philadelphia, Pa.

ESTABLISHED 1802

THORBURN'S SEEDS

Send for special low prices on **LILIUM HARRISII** stating the number you require. We have unexpectedly received a large consignment.

J.M. THORBURN & CO.
(Late of 15 John Street)
36 CORTLANDT STREET, NEW YORK

RAFFIA NATURAL COLORED
VAUGHAN'S SEED STORE,
CHICAGO and NEW YORK.

THE AMERICAN FLORIST'S
COLOR CHART
PRICE 15 CENTS POSTPAID..

AMERICAN FLORIST CO., Dearborn St., Chicago, Ill.

Anemone Japonica

This class of plants is among the most desirable of our hardy perennials, commencing to flower early in spring and continuing until frost. The following varieties are the best in their color and style of flower.

Extra Strong Field-Grown Clumps

ALBA.....	\$6.00 per 100	LADY ARDILAUN.....	\$8.00 per 100
ELEGANTISSIMA.....	10.00 per 100	QUEEN CHARLOTTE.	8.00 per 100
ROSEA SUPERBA.....	\$12.00 per 100.		

NATHAN SMITH & SON, Adrian, Mich.

SHIPPING LABELS FOR

....Cut Flowers

Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples.....

SELECTED OF THIS LEAF, POSTPAID, \$1.25.

American Florist Co.,

CHICAGO.

100,000 PANSIES

Highest Grade, Finest Stock. The Jennings Strain.

Mr. John Lewis Childs, of Floral Park, N. Y., says of the Jennings Strain: "The largest and finest colored flowers I have ever seen." By mail 75c per 100; by express, \$4.00 per 1000; 3,000 \$11.00; 5,000 \$18.00. Separate colors same price. Large plants ready to bloom Oct. 1st, \$1.00 per 100; \$8.00 per 1000. SEED, \$1.00 per pkt.; \$5.00 per oz. CASH WITH ORDER.

E. B. JENNINGS, Lock Box 254, Southport, Conn.
Grower of the Finest Pansies.

Always mention the American Florist when you order stock

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSEYMEN.

CHAS. A. ILOENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

PEACH trees are one of the principal shortages with Georgia nurserymen.

AN unprecedented sale for wood labels is an indication of how the trade winds blow.

THE nurseries where ornamentals are chiefly handled report this their heaviest fall season.

IT is reported that one summer day's work at the Stark nursery, Starkdale, Mo., was 122,800 buds, set by fifty-eight hands.

A STORAGE house has come to be a necessity on an up to date nursery. Many fine buildings of this character are now nearing completion.

ACCORDING to Wesley Greene, secretary of the Iowa State Horticultural Society, there are nine and a half millions of bearing fruit trees in Iowa.

THERE is an increasing demand for the cherry for ornamental work. Prunus Padus is one of the best. It is the European bird cherry, in cultivation in many forms. The variety commutata is noteworthy because it is one of the earliest of all trees to leaf out in the spring.

St. Louis.

BUSINESS SHOWS PRONOUNCED IMPROVEMENT.—WORLD'S FAIR DOINGS STIMULATE SOCIAL ACTIVITY.—MARKET IN GOOD SHAPE.—NOTES.

Trade is picking up and a very notable improvement in stock is seen. The roses are of much better color, but there are hardly enough of the first grade to supply the demand. World's Fair doings have brought a number of prominent people to the city and created a considerable demand for the best flowers. Ostertag Brothers had a fine decoration at the Southern Hotel, September 30. George Waldbart also had a good order for work at the St. Louis Club for a dinner to Miss Helen Gould and other members of the Board of Lady Managers, on October 1.

The wholesale market is in good shape this week. From \$2 to \$5 is received for roses. Some very fine Beauties are bringing \$3 per dozen. Ivory is about the best white rose at present. Carnations are bringing from \$1 to \$2. A few chrysanthemums are to be had at from 75 cents to \$2 a dozen. Violets are beginning to come in quite lively but prices are low.

The new store of Ellison & Tesson is open and ready for business, in the Masonic Temple.

Mrs. M. Ayers has a very fine new wagon, surpassing those burned some time ago.

John Zeck, manager for J. A. Budlong, Chicago, was in the city this week.

Robt. Tesson was at Chicago and vicinity this week. R. J. M.

TROY, O.—The large addition to the plant of L. A. Thomas gives him ample facilities for a big season's business.

NEW HAVEN, CONN.—The Frank S. Platt Company was made a joint stock corporation last week, capital stock, \$20,000. The business of general seeds, flowers, etc., will be carried on at the old location on State street, where Mr. Platt has been for many years.

California Privet.

Any Size Desired up to 6 Feet.

Contracts for immediate and future delivery solicited. Very attractive prices on car load lots, either of a single size or assorted sizes.

J. T. LOVETT, LITTLE SILVER, N. J.

B. & A. SPECIALTIES

AZALEAS, all sizes and varieties. DUTCH, FRENCH, CHINESE and JAPANESE BULBS in all varieties and at reasonable prices.

ASK FOR FALL CATALOGUE.

BOBBINK & ATKINS, Rutherford, N. J.

Cut Gladiolus Spikes

of the HIGHEST QUALITY, in lots of from 100 to 100,000. Pink, scarlet, crimson, white, light, yellow, blue, lavender and heliotrope; in fact, almost every shade imaginable.

Write for prices and particulars, stating your requirements.

ARTHUR COWEE, "Meadowvale Farm," Long Dist. Phone, BERLIN, N. Y.

U. S. Representative and Grower of GROFF'S HYBRIDS.

Watch this space for bulb advertisement later.

25,000 Rudbeckia The Glow
Clumps, \$3.00 per 100; \$25.00 per 1000.

25,000 Boltonia Asteroides
Clumps, \$4.00 per 100, \$35.00 per 1000.
and thousands of other varieties of

Hardy Herbaceous Plants.
150,000 ASPARAGUS,

Conover's Colossal, etc., and a full line of Trees, Shrubs, etc. Send for catalogue.

CENTRAL MICHIGAN NURSERY,
Kalamazoo, Mich.

PAEONIAS FOR FALL.
10 distinct, best kinds, \$10.00 per 100.

Ampelopsis Veitchi, 2 year, strong... \$1.00 per doz.
Clematis Paniculata, 2 year, strong, \$1.00 per doz.; \$7.00 per 100.

Clematis, large flowering, \$2.50 per doz.; \$16 per 100.

F. A. BALLER, Bloomington, Ill.

3,000 Dbl. Paeonias
Dark Rose, \$8 per 100; \$70 per 1000.

3,000 CRIMSON RAMBLERS
\$9.00 to \$12.00 per 100.

Chas. Lenker, Freeport, L. I., N. Y.

NEW FRUITS.

Golden Mayberry, strong transplants,	100	1000
Iceburg Blackberry, "	\$4.00	
Rathbun Blackberry "	4.00	
Cumberland Raspberry, "	3.00	25.00
	3.50	30.00

The Conard & Jones Co, West Grove, Pa.

FERNS my selection for dishes, \$2.50 per 100. Pteris Argyraea, Tremula, Ouvrardi, Caraway, 4-in., 8c. Chinese Primroses and Dble. Bouvardias, 3-in., 5c. 100 field-grown Louise Violets left, \$5 00. Dble. Alyssum, \$3 00.

LEVANT COLE, Battle Creek, Mich,

We have the largest stock of
ARAUCARIA EXCELSA
in the country, May importation, raised from top cuttings only.

5-inch pots, 3 tiers, 10 inches and above.....	\$.50
5 1/2-inch pots, 12 to 14 inches.....	.75
6-inch pots, 15 to 18 inches.....	.75 to 1.00
Specimen.....	1.25
KENTIA FORSTERIANA and BELMOREANA, 5 1/2 to 6-in. pots, 25 to 30 inches high.	.75
FICUS ELASTICA, 5 1/2 to 6-in., 18 to 24 inches high, from \$4.00 to \$5.00 per doz.	
BOSTON FERNS, 6-inch pots.....	.40

Cash with order please. To save express mention if pots to be taken off.

GODFREY ASCHMANN,
WHOLESALE GROWER AND IMPORTER OF POT PLANTS,
1012 Ontario Street, PHILADELPHIA, PA.

PANSIES

Roemer's Superb Prizo Pansies.
The World's Best.

STONG, FINE STOCKY PLANTS,
Mixed colors, by mail, 75 cents per 100; by express, \$4.00 per 1000; \$7.00 per 2000; \$10.00 per 3000; \$15.00 per 5000; \$25.00 per 10,000.

CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

Please mention the American Florist when writing.



H. Wrede, LUNEBURG, GERMANY PANSY SEED.

155 First Prizes, the highest awards Chicago, Hamburg 97, Paris 1900. 1000 Seeds, finest mixed, 25c 1 oz. " " " \$3.25

Price List on application. Cash with order.

Zirngiebel Giant Pansies.

Trade packages at one dollar each. Also plants of the above strains at \$5.00 per 1000, guaranteed equal to any that we ever sent out.

DENYS ZIRNGIEBEL, Needham, Mass.

Please mention the American Florist when writing.

GRAND EXHIBITION OF FLOWERS AND STATUARY



At Madison Square Garden, New York City, Oct. 30 to Nov. 6, inclusive.

\$3,500.00 in regular premiums, besides numerous gold, silver and bronze medals and special prizes.

This will be the grandest horticultural and sculptural exhibition ever given in this country.

Intending exhibitors should send in their entries at once to secure space.

For schedules and further information apply to the Manager,
HARRY A. BUNYARD, 38 WEST 28th STREET, NEW YORK.

**BY THE NEW YORK FLORISTS' CLUB
and NATIONAL SOCIETY OF SCULPTURE**

\$2.00

**POSTPAID TO
Any ADDRESS**



**SAVES MANY TIMES
ITS PRICE**



THE AMERICAN FLORIST COMPANY'S DIRECTORY saves many times its price to every one who catalogues or circularizes the trade. Fully revised to date of publication, it puts the mail only to live names, avoiding waste of postage and printed matter, time and labor.

Contains 418 pages, lists of Florists, Seedsmen and Nurserymen of the United States and Canada by states and towns, also alphabetically; firms that issue catalogues, private gardeners, horticultural societies and much other up-to-date information which makes it a reference book of daily utility wherever a wholesale trade is done.

Published annually by the

American Florist Co.
324 Dearborn St. CHICAGO.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

At New York.

The bowling season opened in a mild and innocuous manner on Monday evening, September 29. The call for a meeting at the Arlington alleys brought out a group of just seven, but there were valid excuses sent in from several of the old stand-bys and no doubt they will all get limbered up in good shape before many weeks. The scores herewith appended as the result of this first set-to are published without the approval of the various parties responsible for them. A worse record is sometimes seen, but not often.

Player	1st	2d
Trendly	129	103
Sheridan	106	119
Stewart	133	111
Burns	142	139
Lang	131	148
Lorenz	121	97
Shaw	86	92

At Philadelphia.

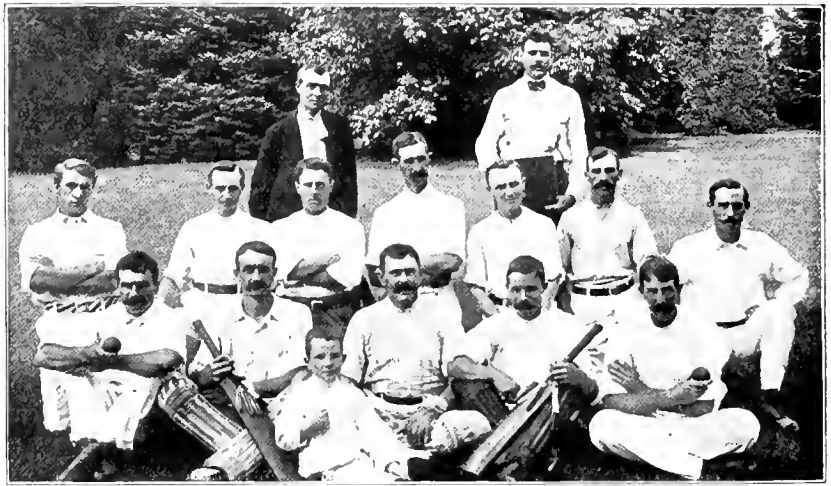
The cups are now all in and the case is somewhat crowded, but they can be set a little closer, however, if any more come our way. The interest keeps up and many interesting matches take place on the alleys. The following are the averages of all who rolled over ten games last month:

Mooney	177	Craig	155
Moss	174	Hogerle	153
Dunham	174	Fletcher	151
Eimmerman	171	Watson	150
Allen	171	Archer	150
Moore	163	Holmes	149
Conner	162	Anderson	143
Harris	161	Yates	142
Kift	159	Falk	135
Westcott	158	Gibson	134
Baker	157	Dunlop	130
Bonsall	157	Eickmeyer	129
Kuestner	157	Leaver	127
Adelberger	156	Hanna	121
Polites	155		

K.

Philadelphia Gardeners' Cricket League.

The series of games played by the Philadelphia Gardeners' Cricket League resulted in a succession of victories for Wootton, who therefore win the prize bat offered by H. Waterer. The Wootton team is composed of employes on the estate of G. W. Childs-Drexel, Bryn Mawr, Pa., their generous employer providing an excellent crease on the beautiful lawn. Thomas Long, the head gardener, regulates his work so that the employes get every Saturday afternoon in summer for practice and matches.



M. Braunon. M. Hatch. J. Brown. A. Bycroft. J. Hirst. T. Long. J. Dennis. W. Wootters. T. Cummings. S. Hammond. G. Cummings. W. Buchanan. W. Burnette. G. Holdsworth. W. T. Long, Mascot.

THE WOOTTON TEAM IN THE PHILADELPHIA GARDENERS' CRICKET LEAGUE.

This is also supplemented by some daily practice. Much credit is due to S. Hammond, the captain, for his coaching and managing, his ability in cricket being of a sufficiently high order to secure a place on any good amateur team. G. Cummings, Holdsworth, Dennis and Long have also shown to advantage in many matches throughout the summer. F. C.

Providence, R. I.

TRADE QUIET.—CARNATIONS SCARCE BUT ROSES ARE ABUNDANT.—A VARIETY OF PERSONAL JOTTINGS.

Quiet still prevails in retail circles. Withasters fast going out of season, there has been a firm demand for carnations, but these are to be had only in small quantities. Roses, however, are in abundance at low figures and tide over the shortage of other funeral flowers.

J. A. Foster was interviewed regarding his proposed retail venture in his new theatre building, and said he will not open a store if he can lease the room for some other business.

C. W. Jenckes & Brother celebrated their fiftieth business anniversary in the Trocadero September 29 and used some fine palms for decorative effect.

Hamilton, of Edgewood, is cutting his first crop from 5,000 carnations, and says he still finds Lizzie McGowan a sure thing in white.

Col. Wendelschaefler lost his daughter this week. There was a notable showing of fine floral pieces at the funeral.

T. F. Keller has repainted his store and stocked up with araucarias that make a nice display.

Wm. Hay persists in sending in good single violets away ahead of the other fellows.

Macnair decorated the new Imperial theatre last week. M. M.

POMONA, N. C.—The new carnation house just built by the J. Van Lindley Nursery Company is 34x200, and not 16x216 feet in area, as stated in J. M. Lamb's report as vice-president at Asheville last August.

WANTED

To contract for delivery on or before December 1st, 1,500 each Flora Hill and Ethel Crocker, strong, well rooted cuttings. Also 1,000 2-year-old Kaiserin plants.

MORTON GROVE GREENHOUSES, 150 Kinzie St., Chicago.

The COTTAGE GARDENS, QUEENS, L. I.

SEND FOR PRICE LIST OF Paeonias, Herbaceous Plants, Phlox, Azaleas, Specimen Trees and Shrubs.

Pansy Plants.

MME. PERRET, the finest strain on the market, large plants that will bloom soon at 50c per 100; \$3.50 per 1000; 3,000 for \$10.00.

J. C. SCHMIDT, BRISTOL, PA.

Please mention the American Florist when writing.

NOTICE-- Are you a Buyer of Cut Flowers, Bulbs, Seeds or Supplies?
 Are you a Grower of Cut Flowers, Bulbs, Seeds or Novelties?
 IF YOU ARE, COMMUNICATE WITH
McKELLAR & WINTERSON
 45-47-49 Wabash Avenue, CHICAGO.

PALMS, FERNS, ETC.

ARAUCARIA EXCELSA.

Size Pots.	Height.	Whorls.	Each.
5-inch	15 inches	3 to 4	\$1.00
7-inch	22 to 24 "	4 to 5	1.50

ARAUCARIA EXCELSA GLAUCA.

Size Pots.	Height.	Whorls.	Each.
5-inch	12 inches	3 to 4	\$1.00
6-inch	14 "	3 to 4	1.25
7-inch	26 "	5 to 6	3.00

ARAUCARIA ROBUSTA COMPACTA.

Size Pots.	Height.	Whorls.	Each.
5-inch	10 inches	2 to 3	\$1.25
6-inch	14 "	3	1.75
7-inch	22 "	4	3.00

FICUS ELASTICA—RUBBER TREE. PERFECT, SHAPELY PLANTS.

Size Pots.	Height.	Each.	Doz.	Per 100
5-inch	15 to 18 inches	.40	\$4.50	\$35.00
6-inch	20 to 24 inches	.60	6.00	50.00

KENTIA BELMOREANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	5 to 6	22 to 24 inches	\$1.00	\$12.00
6-inch	6 to 7	28 to 30 "	1.50	18.00
7-inch	6 to 7	30 to 32 "	2.00	24.00
8-inch	6 to 7	36 "	2.50	
8-inch	6 to 7	38 to 40 "	3.50	

LATANIA BORBONICA.

Size Pots.	Height.	Each.	Doz.
6-inch	7 character leaved	20 to 24 inches	.75
7-inch	8 to 9 "	25 to 26 "	1.25
8-inch	8 "	40 to 48 inches	3.00

BOSTON FERNS.

Large stock of all sizes pot-grown plants. Write for prices.

KENTIA FORSTERIANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	5 to 6	20 to 24 inches	.75	\$ 9.00
5-inch	5 to 6	30 "	1.25	15.00
6-inch	5 to 6	32 to 36 "	1.50	18.00
7-inch	6	36 to 38 "	2.00	24.00
8-inch	6	48 to 60 "	4.00	

PANDANUS UTILIS.

Size Pots.	Height.	Each.	Doz.	Per 100
6-inch	20 to 22 inches	.75	\$ 8.00	
7-inch	24 to 26 "	1.00	12.00	

CYCAS REVOLUTA.

We can supply fine plants, well rooted, with fine, perfect crowns, in sizes from 3 to 10 lb. stems, at an average price of 15c per leaf.

PHOENIX CANARIENSIS.

Size Pots.	Height.	Each.
7-inch	24 to 26 inches, stocky plants	\$1.50
9-inch	4 feet, stocky plants	3.00

ASPARAGUS PLUMOSUS NANUS.

We have a very large stock of all sizes.
2½-inch pots per doz., \$.75 per 100, \$5.00
3-inch pots " 1.00 " 8.00

ASPARAGUS SPRENGERI.

2½-inch pots, per 100, \$3.50 per 1000, \$30.00
3-inch " " 7.00
4-inch pots, per doz., \$1.50 " 12.00

CELESTIAL PEPPER, OR CHRISTMAS CHERRY.

One of the best plants for Thanksgiving and Christmas sales. We have a large stock of well grown plants.
3-inch pots, strong, per doz., \$.75 per 100, \$ 6.00
4-inch pots " " 1.25 " 10.00

VAUGHAN'S SEED STORE,

84-86 RANDOLPH ST., CHICAGO. 14 BARCLAY STREET, NEW YORK.
GREENHOUSES, WESTERN SPRINGS, ILL.

CANNAS. 500,000 GIANT PANSIES

SMALL OR LARGE PLANTS.

Strong Field-Grown Clumps.

Duke of Marlborough, Florence Vaughan, President Cleveland, Charles Henderson, A. Bouvier, Robert Christie, Queen Charlotte, Sophie Buchner and Austria, \$15.00 per 100.

Egandale, Sou. de Antoine Crozy, Sam Trelease, President Carnot, Chicago, Beate Poitevine and Martha Washington, \$25.00 per 100.

Save heavy express charges by ordering at once by freight.

The Storrs & Harrison Co.
PAINESVILLE, OHIO.

Asparagus Sprengeri.

	Per 100
500 3-inch pots	\$ 6.00
500 2½-inch pots	3.00
250 Asparagus Tenuissimus, 4-in. pots	6.00
200 Asparagus Plumosus, 4-in. pots	10.00
25 Boston Ferns, 8-in. pots, 90c each	
50 Rubber Plants, 20 to 24 inches, 6-inch pots, 45c each	

CASH WITH ORDER.

THE LIVINGSTON SEED CO.
COLUMBUS, OHIO.

Mixed of the following strains: Mme. Perret, International, Giant Trimardeau, Roemer's Show, Fancy, Five Spot and Ne Plus Ultra Strains, 50c per 100; \$3.00 per 1000.

50,000 DREER'S DOUBLE DAISIES. Snowball, Longfellow, Giant. Same price as Pansies.

5,000 FORGET-ME-NOT, 75c per 100; \$5.00 per 1000.

VIOLETS. Lady H. Campbell, 2-inch, strong, \$2.00 per 100.

3,000 VINCA. Variegated and Green, strong field clumps, \$4.00 per 100; \$30 per 1000.

ASPARAGUS SPRENGERI, 2-inch, strong, \$2.00 per 100.

ASPARAGUS PLUMOSUS, 3-inch, strong, \$5.00 per 100.

Boston Ferns 2,500 fine bushy plants from bench, fit for 4, 5 and 6-inch, \$10 per 100. This bargain to make room quick.

PRIMULA OBCONICA, GRAND., ALBA AND ROSEA, will make fine 4-inch, some in bloom, \$2 per 100; \$18 per 1000.

UMBRELLA PLANTS, 2-in., fit for 4-in., \$1.50 per 100.

CHRISTMAS PEPPERS OR CHERRY, 2½-inch, fit for 4-inch, \$1.50 per 100. CASH.

BYER BROS., CHAMBERSBURG, PA.

Geraniums.

Unrooted cuttings, S. A. Nutt, Jean Viaud, La Favorite and Clyde, \$10 per 1000; 2½-inch, \$20.00 per 1000.

ASPARAGUS PLUMOSUS NANUS, 2½-inch, fine for dishes, \$5.00 per 100; \$40.00 per 1000. ASPARAGUS SPRENGERI, field-grown, \$3 and \$5 per 100.

SMALL FERNS, for dishes, in 6 best varieties, at \$3.00 per 100; \$25.00 per 1000.

BOSTON FERNS, from bench, fine plants, fit for 4, 5 and 6-inch pots at \$15, \$20 and \$25 per 100; 2½-inch, \$3.00 per 100; \$25.00 per 1000.

CHRISTMAS PEPPERS, 4-inch, \$5.00 per 100.

ADIANTUM CUNEATUM, 4-inch, \$6.00 per 100.

CASH PLEASE.

Carl Hagenburger, W. Mentor, Ohio.

Calif'nia

ASPARAGUS PLUMOSUS, Extra fine 3½-inch stock, \$1.00 per 100; \$35.00 per 1000. 4½-inch \$8.00 per 100.

EXPRESS PREPAID.

Pansy Seed, 1902 Giant of California, \$1.00 per ounce, ¼ ounce at same rate.

FIELD-GROWN CARNATIONS, QUEEN LOUISE, \$7.00 per 100
MERMAID, 6.00 per 100

LOOMIS FLORAL CO., Loomis, Cal.

PLEASE MENTION US TO OUR ADVERTISERS.

Cleveland.

HEAT KEEPS STOCK PLENTIFUL. — MILDEW ON THE ROSES.—GOOD CARNATIONS. —GROWERS BOXING BULBS.

The warm weather still continues and a plentiful supply of stock is in evidence. Prices remain about the same as last week. Mildew is making its appearance as a result of the cloudy days. Some first-class single violets are coming in and are selling quite well. Chrysanthemums are being called for. There will be an abundance in a couple of weeks. Carnations are very plentiful and never better at this season of the year. Lily of the valley is becoming more plentiful and there is enough of green goods in the market. Dahlias are fine and make a splendid show. The varieties might be improved upon; some of the newer kinds would be acceptable.

The growers are busy boxing Dutch bulbs. There seems to be a scarcity of red tulips. There always seems to be an annual hughaboo about bulbs of one variety or another. Echo.

Lapeer, Mich.

WATSON ENLARGING PROPAGATING FACILITIES.—GOING INTO ROOTED CUTTINGS.—COAL PILE A HELP.

W. H. Watson is finishing a rose house 24x120 feet. It will be planted to carnations the first of next week and to roses early next spring. He also has material on the ground for three propagating houses each 12x40. This, with his present propagating bed 4x100, will give room for early and continuous propagating. Mr. Watson is adding many field-grown plants of the new and best carnations and expects to make a good showing in the rooted cutting business this winter. He is not sorry that a coal pile of 350 tons is in stock but is arranging to increase it at least 100 tons. The saving on the early purchase was \$265. The sale on field-grown carnations has been very satisfactory.

STOCK GERANIUMS

Field-grown heavy plants. J. D. Eisele and James Davidson, our 1902 novelties, fine bedders, \$2.00 per doz. America, Beaute Poitevine, Dryden, Mrs. E. G. Hill, Frances Perkins, \$1.00 per doz. Cash please.

HENRY EICHHOLZ, Waynesboro, Pa.

JOSEPH HEACOCK,

WYNCOTE, PA.

GROWER ARECA LUTESCENS, KENTIA BELMOREANA, COCOS WEDDELIANA.

CARNATIONS

Fine field-grown plants, Marquis and Scott carnations, elegant bushy stock, many plants 12-15 in. across. \$9 per 100; \$45 per 1000. Splendid value.

ROSES.	ROSES.	100	1000
3-inch Brides and Golden Gates.		\$4.00	\$35.00
3-inch Meteors.		2.50	20.00
2-inch Brides and Maids.		2.00	17.50

Fine strong plants, worth a good deal more money
W. H. GULLETT & SONS, LINCOLN, ILL.

ROBT. CRAIG & SON,
Roses, Palms
and Novelties in Decorative Plants.
Market and 49th Sts., Philadelphia, Pa.

PALMS, FICUS, AZALEAS, Etc.

PALMS.

KENTIA BELMOREANA, 2½-in. pots, \$6.00 per 100; \$50.00 per 1000.
KENTIA BELMOREANA, 3-in. pots, \$12.00 per 100; \$100.00 per 1000.
KENTIA BELMOREANA, 24 to 28 inches, fine bushy plants, \$1.25 each; \$15.00 per doz.
KENTIA BELMOREANA, 30 to 32 inches, perfect condition, \$1.75 each; \$20 per doz.
CYCAS REVOLUTA, 60c, \$1.00, \$1.25, \$1.50 and \$2.00 each.

AZALEAS, 10 to 12-in. crowns, \$35 per 100.
" 12 to 14-in. crowns, \$45 per 100.
" 14 to 15-in. crowns, \$55 per 100.

FICUS, TRUE BELGIAN VARIETY.

4-in. pots, heavy strong stock, \$25 per 100.
4-in. pots, lighter plants, \$15 per 100.
BOSTON FERNS, 2½-in. pot, \$4.00 per 100.
" 4-in. pot, \$15.00 per 100.
" 5-in. pot, \$25.00 per 100.
PRIMULA CHINENSIS, 2½-in. pots, \$2.50 per 100.

The Storrs & Harrison Co.
PAINESVILLE, OHIO.

DOUBLE WHITE FUCHSIAS

Mrs. E. G. Hill, Rozains Patris, Gloire des Marches, 2½-in., clean and good, \$3 per 100; \$25 per 1000. Other good sorts in variety, our selection, 2½-in. in splendid shape, \$2.50 per 100.

CHINESE PRIMROSES, white and pink, (Rupp's Strain), 2½-in., fine plants, \$3.00 per 100.
ASPARAGUS SPRENGERI, 2½-in., \$2.50 per 100; \$20.00 per 1000.
ASPARAGUS PLUMOSUS NANUS, 2½-in., extra good, \$3.00 per 100; \$25 per 1000.
LEMON, AMERICAN WONDER, (also known as Ponderosa), strong 2½-inch, \$3.00 per 100; \$25.00 per 1000. 4-inch, \$10.00 per 100; \$75 per 1000.
ARAUCARIA EXCELSA, 3 tiers, clean and good, 50c each; \$5.00 per dozen.
KENTIA FORSTERIANA, 5-inch, 24 to 30 inches high, 65c each; \$7.00 per dozen.
PANDANUS UTILIS, 5-inch, very fine, \$3.50 per doz., 4-inch, \$2.00 per doz.

SCHMIDT & BOTLEY, Springfield, Ohio.

Primroses

CHINESE, single, mixed, 2½-in. pot, strong,	Per 100	\$1.50
ASPARAGUS SPRENGERI, 2½-inch pots,	2.00	
" strong 3.00		
CINERARIAS, 2-inch pots	2.00	
NARCISUS, Paper White Grandiflora	1.00	
PANSY PLANTS, 2½-in. pots	\$3.00 per 1000; .60	

CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

READ THIS AND SEND FOR

VARIEGATED VINCAS, large, bushy, field-grown plants at \$5.00 per 100; small, \$3.00 per 100.
Customers are all asking for the new winter-blooming COLEUS THYRSOIDEUS, rooted cuttings, \$3 per 100. FORGET-ME-NOTS, BABY PRIMROSES and YELLOW DAISIES at \$1.00 per 100.

J. A. WIBE, Box 125, Downers Grove, Ill.

Orders hooked now—delivery in September—for my Nephrolepis Fern

"ANNA FOSTER"

Small plants, \$25.00 per 100; larger plants prices on application.
BOSTON FERN now ready at \$25 and \$50 per 100.
L. H. FOSTER, 45 King St., Dorchester, Mass.

SPECIAL ROUND-TRIP EXCURSION RATES TO NEW YORK

via Nickel Plate Road. Tickets on sale October 3rd to 6th inclusive, good leaving New York not later than October 14th. Address John Y. Calahan, General Agent, 113 Adams St., Chicago, for reservation of sleeping car space and other information. 50

A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
KENTIA Belmoreana and Forsteriana, extra clean and well grown plants, 2½, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
BOSTON FERN, 2 and 3-inch, \$4 and \$6 per 100.
BOSTON FERN, 4, 4½, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.
FERN, Cordata Compacta, 2 and 3-inch, \$4 and \$10 per 100.
ASPARAGUS Plumosus, 2-inch, \$5; 3-inch, \$8. Sprenger, 2 inch, \$3; 3-inch, \$5, per 100.
DRACAENA INDIVISA, 4, 5-in., \$10, \$25 per 100.
ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100.
SMILAX, 2-inch, \$1.00 per 100.
CAMPBELL VIOLETS, 3-inch, \$4.00 per 100.
GERANIUMS, rooted cuttings; standard varieties: Your choice \$1.25, my choice \$1.50 per 100.
VINCA VAR., 3-inch, \$4.00 per 100.
CINERARIA, 2-inch, \$2.00 per 100.
Chinese Primrose, 2-in., \$3; 3-inch, \$5 per 100.
Cash or C. O. D.

CEO. M. EMMANS, NEWTON, N. J.

Orchids!

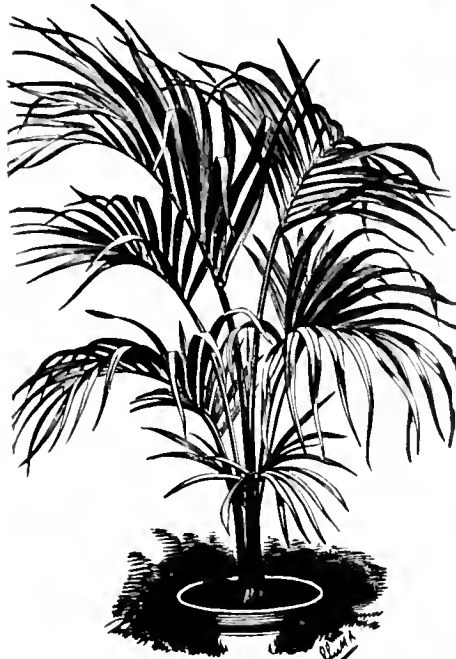
Arrived in fine condition: CATTLEYA TRIANÆ. The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

Lager & Hurrell, SUMMIT, N. J. Orchid Growers and Importers.

GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs.....
\$2.00 Per Year. Sample Copies Free. Liberal terms to florists who take subscriptions.
THE GARDENING CO. MONON BUILDING, Chicago, Ill., U.S.A.

DREER'S PALMS.



KENTIA.

Now is the time to secure your supply of Palms for the coming season's trade. All the varieties and sizes here offered are in excellent condition and of good value.

ARECA LUTESCENS.

2-inch pots, 8 to 10 in. high, 1 plant in pot.....	Doz.	100
3-inch pots, 10 to 12 in. high, 2 plants in pot.....	\$.75	\$ 6.00
4-inch pots, 15 to 18 in. high, 3 plants in pot.....	1.00	8.00
5-inch pots, 18 in. high, 3 plants in pot.....	2.50	20.00
6-inch pots, 24 to 26 in. high, 5 to 6 plants in pot.....	5.00	40.00
6-inch pots, 28 to 30 in. high.....	9.00	75.00
8-inch pots, 30 to 36 in. high, 3 plants in pot.....	12.00	100.00
10-inch pots, 42 to 45 in. high, 3 plants in pot.....	Each	Doz.
	\$3.00	\$36.00
	5.00	61.00

COCOS WEDDELIANA.

A good lot of 3-inch pots, 10 to 12 inches high, \$2.00 per dozen; \$15.00 per 100.

KENTIA BELMOREANA.

2 1/4-inch pots, 4 leaves, 8 to 10 in. high.....	Doz.	100	1000
3-inch pots, 5 leaves, 12 to 15 in. high.....	\$1.50	\$12.00	\$100.00
4-inch pots, 5 to 6 leaves, 15 to 18 in. high.....	2.50	20.00	180.00
5-inch pots, 6 leaves, 18 to 20 in. high.....	4.50	35.00	300.00
6-inch pots, 6 to 7 leaves, 18 to 20 in. high.....	7.50	60.00	
	9.00	75.00	
	Each	Doz.	
6-inch pots, 5 to 6 leaves, 24 in. high.....	\$1.00	\$12.00	
6-inch pots, 6 leaves, 24 to 28 in. high.....	1.25	15.00	
6-inch pots, 6 leaves, 28 to 30 in. high.....	1.50	18.00	
7-inch pots, 6 to 7 leaves, 30 to 32 in. high.....	2.00	24.00	
8-inch pots, 6 to 7 leaves, 36 to 42 in. high.....	2.50	30.00	

KENTIA FORSTERIANA.

2 1/4-inch pots, 4 leaves 8 to 10 in. high.....	Doz.	100	1000
3 inch pots, 5 leaves, 12 to 15 in. high.....	\$1.50	\$12.00	\$100.00
4-inch pots, 5 to 6 leaves, 15 to 18 in. high.....	2.50	20.00	180.00
	4.50	35.00	300.00
	Each	Doz.	
6-inch pots, 5 to 6 leaves, 24 to 26 in. high.....	\$1.00	\$12.00	
6-inch pots, 5 to 6 leaves, 30 in. high.....	1.25	15.00	
6-inch pots, 5 to 6 leaves, 30 to 36 in. high.....	1.50	18.00	
7-inch pots, 6 leaves, 30 to 36 in. high.....	2.00	24.00	
8-inch pots, 6 leaves, 42 in. high.....	2.50	30.00	
8-inch pots, 6 leaves, 42 to 48 in. high.....	3.50	42.00	
8-inch pots, 6 leaves, 48 in. high.....	4.00	48.00	
9-inch pots, 6 to 7 leaves, 5 feet in height.....	7.50		

PHOENIX RECLINATA.

2-inch pots.....	Doz.	100
3-inch pots.....	\$.75	\$6.00
4-inch pots.....	1.25	10.00
	3.00	25.00

PHOENIX RUPICOLA.

2-inch pots.....	Doz.	100
3-inch pots.....	\$1.00	\$8.00
4-inch pots.....	1.50	12.00
	4.00	30.00

PTYCHOSPERMA ALEXANDRAE.

A fine lot of strong 5-inch pots of exceptional value 24 inches high \$3.00 per dozen; \$25.00 per 100.

THE PIERSON FERN, (Nephrolepis Piersoni).

We are now booking orders for spring delivery of this, the most valuable fern introduced in many years, at \$9.00 per dozen; 50 plants at 60c each; 100 plants at 50c each; 500 plants at 45c each; 1000 plants at 40c each.

MADE-UP KENTIAS.

3 plants in a 3-inch pot, 15 in. high.....	Doz.	100.
3 to 4 plants in a 7-inch pot, 36 to 40 in. high.....	\$4.50	\$35.00
4 plants in a 9-inch pot, 42 to 48 in. high.....	2.50 each	
	5.00 each	

LATANIA BORBONICA.

2 1/4-inch pots, 4 to 5 leaves.....	Doz.	100	1000
3-inch pots, 5 to 6 leaves.....	\$.60	\$5.00	\$40.00
4-inch pots, 5 to 6 leaves, 15 in. high.....	1.00	8.00	75.00
	2.50	20.00	
	Each.	Doz.	
8-inch pots, 6 to 7 leaves, 30 in. high.....	\$2.00	\$24.00	
8-inch pots, 7 to 8 leaves, 36 in. high.....	2.50	30.00	

PHOENIX CANARIENSIS.

6-inch pots, 24 to 26 in. high, bushy, stocky plants.....	Each.	\$1.25
7-inch pots, 28 to 28 in. high, bushy, stocky plants.....		1.75
8-inch pots, 28 to 30 in. high, bushy, stocky plants.....		2.00

For the most complete line of General Florists' Stock see our Quarterly Wholesale List Issued September 1.

HENRY A. DREER, 714 Chestnut St., PHILADELPHIA PA.

Pansies Worth Raising.

Seed, 3/8 oz.....\$1.00
Plants, per 1000..... 4.00

FERNS...

FOR JARDINIERS.

Assorted from flats, \$1.50 per 100 clumps.
Assorted from pots, \$3.00 per 100 plants.

BOSTON FERNS

From \$15.00 to \$50.00 per 100.

RUBBER PLANTS, \$30.00 per 100.

ASPARAGUS PLUMOSUS

\$5.00 to \$10.00 per 100.

ALL A NO. 1 STOCK.

Sample lots for \$2.00 worth at above rates.
All plants f. o. b. express here.
CASH WITH ORDER.

CHR. SOLTAU,

199 GRANT AVENUE, JERSEY CITY, N. J.

Field-Grown ASPARAGUS SPRENGERI

Nice clumps at \$3.00 and \$5.00 per 100.

C. WINTERICH, DEFIANCE, OHIO.



ARECA LUTESCENS, per doz.—2 1/4-inch, 75c; 3, \$1; 3 1/2, \$2; 4, \$3.
KENTIA BELMOREANA, per doz.—2 1/4-inch, \$1.50; 3-inch, \$2; 3 1/2-inch, \$3; 4-inch, \$3.67; 5-inch, \$7.20; 6-inch, \$18.
KENTIA FORSTERIANA, per doz.—2 1/4-inch, \$1.50; 3-inch, \$2.00; 3 1/2-inch, \$3; 4-inch, \$3.67; 5-inch, \$7.20.
LATANIA BORBONICA, per doz.—2 1/2-inch, 60c; 3, \$1; 6, \$7.20; 7, \$10.
PANDANUS VEITCHII, per doz.—5-in., \$12; 6-in., \$18; 8-in., \$42.
PANDANUS UTILIS, 4-in., \$3 per doz.
NEPHROLEPIS BOSTONIENSIS, per doz.—5-in., \$3; 6-in., \$3; 7-in., \$3; 8-in., \$12; 9-in., \$18; 10-in., \$24.
ASPARAGUS PLUMOSUS NANUS, per 100—2-in., \$1; 3-in., \$8; 4, \$12.
ASPARAGUS SPRENGERI, per 100—4-inch, \$12.
PHOENIX CANARIENSIS, 6-inch, \$5 per doz.
SEAFORTHIA ELEGANS, 5-inch, \$5 per doz.
DACAENA INDIVISA, 4-in., \$4; 5-in., \$3; 6, \$5; strong, \$3 per doz.
ADIANTUM, 2 in., \$1; 3-in., \$8 per 100. Small ferns for dishes \$1 per 100; \$25 per 100.
FERN BALLS, well furnished with leaves, \$3 to \$5 per doz.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

PALMS.

HOME-GROWN, FINE, CLEAN STOCK; GROWN COOL.

Write for Price List. **J. B. HEISS,**
The Exotic Nurseries, DAYTON, OHIO.

All The Best CARNATIONS

Orders booked now for fall delivery.
SEND FOR PRICES.
Rotted cuttings and young plants all out.

GEO. HANCOCK & SON,
GRAND HAVEN, M

Pittsburg.

TRADE SLACKS UP BUT GOOD STOCK IS UNDER THE DEMAND.—ALWAYS PLENTY OF LOW GRADE MATERIAL.—PERSONAL AND TRADE NOTES HERE AND THERE.

The business for the week has been slightly off. It is difficult to secure satisfactory stock just now, although under the existing weather conditions, we could hardly expect the new plants to yield a high percentage of fancy blooms. Wholesalers would gladly welcome a fifty per cent increase of the better grades to meet the present demands. While the lower grades are very useful in many respects, the supply is most always greater than the demand. Beauties are fine but Kaisersins are backing up. Brides and Bridesmaids look ragged and Meteors are poor. Liberty is good but very scarce. Single and double dahlias could hardly be improved and sell excellently. Lily of the valley is fine and in demand.

During the chrysanthemum show at Phipps' Conservatory in Schenley Park the railroads will run excursions from points within a radius of 100 miles at surprisingly low rates. This will bring thousands of visitors to see the show each Sunday.

Some of the results of John Bader's work in Europe materialized on Tuesday in the form of two carloads of palms and plants of various kinds.

The flower stores now look very inviting. Most of them have been repainted and received new stock for the winter trade.

Mrs. Adelina Golden, the aged wife of J. O. S. Golden, the well-known Allegheny florist, died Tuesday, September 30.

Mrs. Thos. Ulam has recovered from the effects of her injuries received in a recent railroad accident.

Randolph & McClements have greatly enlarged their store and beautified it to a considerable extent. E. L. M.

Field-Grown CARNATIONS

Fine, Strong, Healthy Plants.

	Per 100	Per 1000
PROSPERITY.....	\$4.00	\$35.00
GENEVIEVE LORD...	4.00	35.00
MARQUIS.....	4.00	35.00
LAWSON.....	7.00	

PETER REINBERG,
51 Wabash Ave., Chicago.

HEALTHY FIELD-GROWN CARNATIONS.

	Per 100	Per 1000
JOOST.....	\$3.00	\$25.00
SCOTT.....	3.00	25.00
HILL, medium size.....	3.50	30.00
250 at 1000 rate. Cash or C. O. D.		

WM. FLUEGGE, 2791 N. Leavitt St., Chicago.

MARQUIS Carnations

2,000 extra fine field-grown Marquis at \$5.00.

L. E. MARQUISEE, Syracuse, N. Y.
Please mention the American Florist when writing.

CARNATIONS!

FINE, LARGE, HEALTHY FIELD-GROWN PLANTS.

	Per 100	Per 1000		Per 100	Per 1000
White Cloud.....	\$6.00	\$50.00	MARQUIS.....	\$5.00	\$40.00
Norway.....	6.00	50.00	Guardian Angel.....	5.00	45.00
			Prosperity.....	5.00	40.00

WIETOR BROS., 51 Wabash Ave., Chicago.

100,000 Field-Grown CARNATION PLANTS

Plants now are in first-class condition. We have no stem rot.

BUTTERCUP, HOOSIER MAID,	LIBERTY, PROSPERITY,	DOROTHY, NORWAY,	SUNBEAM, NIDIA,
	1st, \$7.00 per 100.	2d, \$5.00 per 100.	
COMEZ, ARMAZINDY,	PORZIA, CROCKER,	VICTOR, MARQUIS,	1st, \$5.00 per 100 2d 4.00 per 100
JOOST,	LAWSON, DAYBREAK,	GOV. ROOSEVELT, MORNING GLORY,	2nd, \$6.00 per 100. 2nd, \$4.00 per 100

J. L. DILLON, BLOOMSBURG, PA.

EXTRA FINE FIELD-GROWN

Carnation PLANTS.

1000 White Cloud.....	\$8.00	per 100
500 Prosperity.....	8.00	per 100
300 Maceo.....	7.00	per 100
1500 Norway.....	7.00	per 100
1000 Mrs. Joost.....	6.00	per 100
1500 Wm. Scott.....	5.00	per 100
2000 Ethel Crocker.....	5.00	per 100
1000 Hill.....	5.00	per 100
1500 Cartledge.....	4.00	per 100
1500 McGowan.....	4.00	per 100
1000 Fisher.....	4.00	per 100

LEO. NIESSEN,

N. W. Corner Thirteenth and Filbert Streets,
PHILADELPHIA, PA.

Please mention the American Florist when writing.

LILLIAN POND

The Largest and Best White.

A pure white flower averaging 3½ inches on long stiff stems. A continuous, free and early variety with a flower perfectly formed and very fragrant.

A Money Maker for You All.

Orders filled strictly in rotation, delivery commences January 1st, 1903.

PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00.

S. J. REUTER, WESTERLY, R. I.

CARNATIONS FOR SALE OR EXCHANGE.

McGowan, Scott, Kitty Clover, Tidal Wave and a pink seedling very light in color and much better variety than Scott ever was. All plants in fine shape. All \$4.00 per 100, except seedling which is \$6.50. Will exchange for violets, double or single; Asparagus Plumosus, or good scarlet Carnation. If anything else to exchange write.

E. WICKERSHAM & CO., POTTSTOWN, PA.
Please mention the American Florist when writing.

CARNATIONS

GOMEZ and MARQUIS extra large, fine stock,	Per 100	\$4.00
CRANE splendid plants,	\$2, \$3, 4.00	
AMERICA.....	\$2 and 3.00	
G. LORD.....	4.00	
LAWSON second size.....	4.00	

1000 above varieties mixed, including Hill, M. Glory and Joost, extra large plants, at \$3.00 per 100.

W. H. WATSON, Lapeer, Mich.

Please mention the American Florist when writing.

15,000 FIELD-GROWN CARNATIONS

Extra strong A No. 1—Wm. Scott and Lizzie McGowan, \$25.00 per 1000; 250 at 1000 rates. 500 F. Joost, \$3.00 per 100.

K. MELBER, Tappan, N. Y.

FIELD GROWN Carnations

150 The Marquis, 200 Gen. Gomez, 200 Ethel Crocker, 200 Daybreak, 400 Frances Joost, 100 White Cloud, 100 Bon Ton, \$5 per 100.

FARQUHAR VIOLETS, 2½-in. pots, \$3.00 per 100.

Cash with order.

CHAS. H. GREEN, Spencer, Mass.

20,000 Healthy Strong Field-Grown Carnation Plants

All cuttings taken from flowering stems: 15,000 Lizzie McGowan, \$3.00 per 100 3,000 sport of McGowan, white, more dwarf and robust, \$3.00 per 100. 3,000 Russell, good pink, moves easily, \$1.00 per 100.

AARON KEITER, Parker Ford, Pa.
Please mention the American Florist when writing.

LOOK HERE

MISCELLANEOUS SURPLUS STOCK. Prices by the 100.
 Asparagus Plumosus, 2 1/4-inch, larger than any 3-inch stock on the
 Abutilon Savitzi, 2 1/4-inch, very fine stock, \$6. (market, \$5.
 Begonia Rex, strong plants and very fine varieties, 2 1/4-inch, \$6.00.
 Begonia Metallica, 3 1/2-inch, very large, \$8.00 and \$10.00.
 English Ivy, 2 1/4-inch, \$3.00. German Ivy, 2 1/4-inch, \$2.00.

THE FOLLOWING CAN BE SHIPPED ON RECEIPT OF ORDER:
GERANIUMS Alphonse Riccard, Beaute Poutevine, Bronze, Double
 Grant, Freak of Nature, Mme. Sallerai, S. A. Nutt, 2 1/4-in-
 very strong and large at \$2.50 per 100; \$20.00 per 1000. Jean Viaud, Dryden,
 Vera Vend, 2 1/4-inch, \$3.00 per 100; \$25.00 per 1000. Mme. Sallerai, 3-inch,
 very stocky, \$5.00 per 100. **ROOTED CUTTINGS** Alphonse Riccard, Beaute
 Poutevine, Dbl. Grant, E. G. Hill La Favorite, Peter Crozy, S. A. Nutt,
 \$15 per 1000. Jean Viaud, Dryden, Vera Vend, \$2 per 100; \$17.50 per 1000.

Lemon Verbena, 3-inch, very fine and stocky plants, \$8.00 and \$10.00.
 Stock, Princess Alice, 3-inch, strong, \$5.00.
 Snowcrest Daisies, in clumps, \$4.00, \$6.00, \$8.00 and \$10.00. Terms Cash
 or C. O. D.
 Any of the above are guaranteed to be fine, clean stock.

GREENE & UNDERHILL, Watertown, N. Y.

Miss Louise Faber

The Longest Stemmed and Most Fragrant Carnation In Existence

Stems measure from 3 feet to 6 inches to 4 feet. Flowers are of a beautiful pink, similar to a well colored Bridesmaid rose and average 2 1/2 inches. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for Jan. delivery.

FICK & FABER, SAN MATEO, CAL.

1,500 PORTIA, 500 SCOTT,

Field-Grown Carnation Plants. Extra fine stock. \$4.00 per 100; \$35.00 per 1000.

John Muno 51 Wabash Ave. CHICAGO.

5,000 CARNATIONS

Extra strong plants from field, Maceo, Gomez, Melba and America, \$5 per 100, f.o.b.

LOUIS COUCHE, 72d and Haverford Sts. PHILADELPHIA, PA.

50,000 FIELD-GROWN CARNATION PLANTS.

Extra fine stock. Write for prices at once. Personal attention given orders.

Union Street Greenhouse Co., Geneva, N. Y.

New Scarlet "ORIOLE" Carnation....

Strong and healthy field plants, \$12.00 per hundred; \$100 per thousand.

JOHN B. GOETZ, Saginaw, W. S., Mich.

HEALTHY, FIELD-GROWN CARNATION Plants.

2,500 JOOST\$3.00 per 100; \$25.00 per 1000
200 CRANE..... 4.00 per 100.
500 at 1000 rate. Cash with order.

J. A. Budlong, Winnemac Station, Chicago, Ill.

S. S. SKIDELSKY,

708 North 16th St., Philadelphia, Pa.

CARNATIONS

FIELD-GROWN PLANTS.

	Per doz.	Per 100
CRESSBROOK, extra strong 1st.	\$3.00	\$15.00
early propagated, 2nd.	2.50	12.00
NORWAY, extra.	1.50	8.00
PROSPERITY.....	1.00	8.00
GENEVIEVE LORD.....	1.00	7.00
EGYPT.....	1.00	7.00
MERMAID.....	1.00	5.00
GOETHE.....	1.00	5.00
BEAU IDEAL.....	1.00	5.00

The above are all in good shape, ready for immediate shipment. 25 plants of one variety at 100 rate.

Discount on large orders.

Order quick; stock is going fast.
H. WEBER & SONS, Oakland, Md.

Mushroom Spawn



Frequent importations from England. Always fresh and lively.

CARNATIONS

	100	1000	100	1000
McGowan.....	\$3.50	\$30.00	Portia.....	\$1.00 \$35.00
Crane.....	5.00	40.00	Scott.....	4.00 35.00
Crocker.....	5.00	40.00	Elorado.....	4.00 35.00
Norway.....	5.00		Daybreak.....	4.00
Joost.....	4.00		Victor.....	4.00

J. J. STYER, Concordville, Pa.

CARNATIONS

1,500 SCOTT\$3 00 per 100
1,500 CARTLEGE.....

VIOLETS

2,000 MARIE LOUISE\$2.50 per 100
1,000 CALIFORNIA.....

ROSES

300 BRIDESMAIDS\$2.00 per 100
300 BRIDES, 3-inch.....

Stock all guaranteed First-class. CASH WITH ORDER.

Howard P. Kleinhans, Easton, Pa.

MURPHY'S WHITE.

A commercial white Carnation, vigorous and healthy grower, early, free and continuous bloomer; stem and calyx its strongest points; a white flower and very fragrant; an enormous producer both as a summer and winter bloomer. Price within reach of all. Will be distributed beginning January 15, 1903. Facilities for rooting 300,000 cuttings. You will want it, so place your order at once.

100, \$6.00; 1,000, \$50.00; 5,000, \$45.00 per 1000; 10,000, \$40.00 per 1000.

1 can headquarters for Estelle cuttings, \$4.00 per 100; \$30.00 per 1000. Correspondence solicited.

WM. MURPHY, Wholesale Carnation Grower, STA. F, CINCINNATI, O.

Please mention the American Florist when writing.

CARNATIONS

Surplus Field-Grown Stock.

	Per 100
100 DOROTHY.....	\$8.00
100 JOOST.....	6.00
350 PROSPERITY.....	6.00
150 MARQUIS.....	6.00
100 ARMAZINDY.....	6.00
100 GUARDIAN ANGEL.....	6.00
25 WHITE CLOUD.....	6.00
50 MACEO.....	6.00
25 BON HOMME RICHARD.....	6.00
100 EVANSTON.....	6.00
25 MORNING GLORY.....	6.00
100 BRADT.....	6.00

1225 for \$70.00.

L. J. STUPPY, St. Joseph, Mo.

CARNATIONS

Field-Grown Plants.

	Per 100	Per 1000
PROSPERITY.....	\$5.00	\$45.00
MARQUIS.....	5.00	45.00
EVANSTON.....	5.00	45.00
JOOST.....	5.00	45.00

Strong, Healthy Plants.

GEO. REINBERG, 51 Wabash Ave. CHICAGO.

Please mention the American Florist when writing.

CARNATIONS

FIELD PLANTS,

Large, Vigorous, Healthy.

Norway, Marquis, \$6.00 per 100; Glacier, Joost, Mary Wood, Nidia (variegated), Flora Hill, \$5 per 100; Crocker, Cardinal and several others, \$4.00 per 100.

A. G. BROWN, Springfield, Ill.

Please mention the American Florist when writing.

CARNATIONS

700 Freedom good white, 500 Ethel Crocker, 175 Daybreak, 75 Argyle, 25 Glacier and 25 Peru, clean, stocky plants, at \$3.50 per 100. \$45 takes the lot.

E. H. ALDERMAN, Middlefield, Mass.

Please mention the American Florist when writing.

Lowell, Mass.

STOCK SHORTENS UP.—ROSES CHEAPER THAN CARNATIONS.—GROWER PREPARING PEAT FOR THE BURNING.—LOCAL NOTES OF INTEREST.

A noticeable feature in the cut flower market is the short supply of stock. With the aster crop at an end and carnations in limited supply, the outlook is anything but pleasant; it makes one long for the chrysanthemums to fill up the gap. At present roses are cheaper than carnations, roses of fair quality selling at from \$1.50 to \$3 per hundred, while ordinary carnations bring from \$2 to \$2.50 per hundred, and the top-notchers bring \$4 straight.

There is one man in Lowell who is not dreading the coal famine. Mr. Marshall has a natural peat bog on his thirty-acre farm and is confident that he can get his winter's supply of fuel from mother earth with less expense than he could get coal, even though it was selling for \$6 instead of \$15 a ton. The peat is cut into blocks about the size of an ordinary brick and is thoroughly dried by artificial heat before being used.

Lewis Small, of Tewksbury, who has plenty of growing timber on his land, contemplates cutting some of it and burning it this winter instead of coal.

Albert Koper, the grower of Fairmaid, cannot begin to supply the demand for blooms of this variety.

Whittet & Company report a very satisfactory fall trade on plants.

A. C. Tingley has fully recovered from his sickness. A. M.

Buffalo.

STORE OPENINGS OCCASION THE PRINCIPAL ACTIVITY IN TRADE CIRCLES.—VARIOUS NOTES.

Trade in general is quiet, but store openings this week call for about all the palms in the city. Several weddings are booked for next week, when cut flowers will be used and not as many palms. Chrysanthemums are with us now, also good violets. Roses are of fair quality, Beauties being the best. Carnations are scarce, but some very good ones are coming in from Brookins, of Orchard Park.

J. H. Rebstock has gained a verdict of "no cause for action" in a suit for \$2,000 by one of his employes, over a runaway horse.

Mr. and Mrs. S. A. Anderson were in Cleveland last week. Bison.

GERANIUM

100,000 Cuttings in the Sand.

These will be ready in November at the following prices. S. A. Nutt, Buchner, Heteranthe, \$1.25 per 100; \$10.00 per 1000. Perkins, Poitevine, Landry, Riccard, \$2.00 per 100; \$15.00 per 1000. Jean Viaud and M. de Castellane, \$2.50 per 100; \$20.00 per 1000. Bonnot, Castris, Acteon, Harrison, La Favorite, America, La Pilot and Jaulin in small quantities at \$1.50 per 100.

Pansies

500,000 Ready Now AND UNTIL DEC. 1st.

You make no mistake when you buy Herr's Pansies, they are the kind that make you money when they come into bloom. Free by mail at 75c per 100; by express, \$4.00 per 1000.

ALBERT M. HERR, Lancaster, Pa.

California Seeds '02

ASPARAGUS SPRENGERI, \$1.50 per 1000; \$6 per 5,000; \$10 per 10,000.
 PANSY, Giant Flowering, Mixed, trade pkt., 10c; 1 oz., \$1; per lb., \$10.
 BURBANK'S SHASTA DAISY, 100 seeds, 25c; 1000 seeds, \$2; per oz., \$18.

PLANTS. PLANTS.

ASPARAGUS SPRENGERI, from flats, \$1.00 per 100; \$7.50 per 1000; \$25 00 per 5,000.

ASPARAGUS PLUMOSUS NANUS, nice 3 1/2-inch, \$6.00 per 100.

BURBANK'S SHASTA DAISY, the coming cut flower, nice to follow 'mums, 2-inch; \$10 00 per 100; 3 1/2-inch, in bloom, \$15.00 per 100.

CALIFORNIA CARNATION CO., LOOMIS, CAL.

ASPARAGUS PLUMOSUS NANUS.

Strong and Bushy, 3-in pots, per 100, \$5

TO CLOSE OUT.

CALLAS, 4 to 5 1/4-inch circumference, \$4 00 per 100.

TOBACCO STEMS, 'Fresh and Strong
 Bale of 300 pounds, \$1.50

W. C. BECKERT, Allegheny, Pa.
 Please mention the American Florist when writing.

Princess of Wales and Lady Campbell

VIOLET PLANTS.

Strong field-grown clumps from sand struck Cuttings. \$5.00 per 100; \$35 00 per 1000; Samples 10 cents.

The Albert H. Brown Co., Westboro, Mass.

VIOLETS

Imperial, field-grown, \$3.50 per 100, medium plants. Imperial, M. Louise, Swanley White, 3-inch pots, \$3.75 per 100; \$35.00 per 1000. Lady Campbell, \$3.50 per 100; \$30.00 per 1000.

SMILAX 3-inch, fine plants, \$2.00 per 100 to close out.

CRABB & HUNTER, GRAND RAPIDS, MICH.

ASPARAGUS

Plumosus Nanus

Extra fine 2 1/2-inch, better than some 3-inch, \$3.50 per 100; \$30 per 1000. Extra fine 3-inch, \$5.00 per 100. Sample of either size, 10 cents free by mail. CASH PLEASE.

H. TONG, Wholesale Grower, Ashtabula, O.
 Please mention the American Florist when writing.

SPECIALTIES

ROSES, from 3-inch pots. In Best
 CARNATIONS, for all delivery, Varieties
 CHRYSANTHEMUMS,
 SMILAX, VIOLETS.

Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.

HEADQUARTERS FOR HORTICULTURAL SUPPLIES

Of Every Description.

When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

DUNNE & CO., 64 W. 30th St., New York.
 Telephone Call, 1700 Madison Square.

ASPARAGUS SPRENGERI

from Flats, \$1-per 100; \$7.50 per 1000.

PANSY WESTERN GIANT FLOWERING

Trade pkt., 10c; \$2.00 per oz.

ASPARAGUS SPRENGERI

1,000 Seeds, \$1.50.

EXPRESS PREPAID.

WESTERN CARNATION CO.

E. N. FANCHER, Mgr. LOOMIS, CAL.

SPECIAL This Week

20,000 CYCLAMEN PERSICUM SPLENDENS CIGANTEUM,

finest strain in the world, now ready for immediate shipment, extra well grown plants, well budded from 3-inch pots, \$6 00 per 100; \$50.00 per 1000. From 2 1/2-inch pots, \$4 per 100; \$30 per 1000. 250 plants at 1000 rate. Satisfaction guaranteed.

PAUL MADER, East Stroudsburg, Pa.

A. HERRMANN,

* Cape Flowers, all colors,
 * Cycas Leaves, Metal Designs,
 * and All Florists' Supplies.

Send for Prices.

404-412 East 34th St. NEW YORK.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25. Manufactured by

W. J. COWEE, BERLIN, N. Y.
 Sample Free. For sale by dealers.

Violets

Strong field-grown Marie Louise, \$5.00 per hundred. Cash with order.

I. N. KRAMER & SON, Cedar Rapids, Iowa.

\$19.00 BOSTON AND RETURN \$19.00

via Nickel Plate Road, October 7th to 11th, inclusive, good returning until November 12th by depositing tickets at Boston and paying fee of 50c. Three trains daily, carrying through vestibuled sleeping cars. Individual Club Meals, ranging in price from 35c to \$1.00 served in dining cars on Nickel Plate Road; also meals a la carte. City ticket office 111 Adams St., Chicago. Full information can be secured from John Y. Calahan, General Agent, Chicago.

SCHLOSS BROTHERS

533 Broadway, NEW YORK CITY
HEADQUARTERS FOR FLORISTS'
RIBBONS & NOVELTIES

Telephone No. 3872 Spring.

ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong, 2 1/2-inch, \$3.50 per 100.
SPRENGERI, strong, 2 1/2-inch, \$2.50 per 100.

BOSTON FERNS.

2 1/2-inch pots, \$3.00 per 100. From bench lit for 3, 4, 5, 6, 7 and 8-in., 2 1/2-c, 5c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA

Extra fine, 4 to 7-inch pots, only 12c per leaf.
25 FINE RUBBER PLANTS, 3 feet, \$1 each, or the lot for \$20.00. CASH PLEASE.

A. J. BALDWIN, NEWARK, OHIO.

Boston Ferns.

- | | | |
|---|---------|---------|
| 2-inch..... | Per 100 | \$ 4.00 |
| 3-inch..... | | 8.00 |
| 4-inch..... | | 15.00 |
| 5-inch..... | | 25.00 |
| From bench, ready for 4-inch pots..... | | 10.00 |
| From bench, small runners..... | | 3.00 |
| WITBOLOII FERNS (new), 3-inch..... | | 4.00 |
| GREVILLEA ROBUSTA, 4-inch..... | | 6.00 |
| ASPARAGUS PLUMOSUS NANUS, 2-inch..... | | 3.50 |
| ASPARAGUS SPRENGERI, 2-inch, heavy..... | | 2.50 |
| SMILAX, 3-inch, per 1000..... | | 2.00 |
| SWAINSONA, white and pink, 3-inch..... | | 5.00 |
| BABY PRIMROSE, 2-inch..... | | 2.00 |
| VINCA, trailing, 2 vials, ready for 4-in. pots..... | | 1.00 |
| UMBRELLA PLANTS, 2-inch, firm..... | | 2.00 |
| CAREX JAP. VAR., 3-inch, per doz..... | | 8.00 |
| ENGLISH IVIES, extra heavy and large plants..... | | 15.00 |
| CLEMATIS PAN., small plants, pot grown..... | | 2.50 |
- Cash or satisfactory reference with order from unknown parties.
GEO. L. MILLER, Newark, O.

Boston Ferns.

We are headquarters in the West for them. Write us about 2 1/2, 3, 4, 5, 6, 7, 8 and 10-in. sizes.

ASPARAGUS PLUMOSUS AND SPRENGERI, 2 1/2, 3, 4 and 5-inch.

SMILAX, 2 and 3-inch.

A lot of 5-in. HIBISCUS to close at \$1.50 per doz.

CINERARIAS, in 2 1/2 and 3-inch.

GERANIUMS, rooted cuttings now ready. Write

GEO. A. KUHL, Pekin, Ill.

LAST CALL

If you want any of the following stock at giveaway prices. SPEAK QUICK. We need room.

10,000 GERANIUMS from 2 1/2-inch pots, S. A. Nutt, Alp. Riccard, E. G. Hill, Beaute Poitevine, F. Perkins, \$1.50 per 100.

15,000 SMILAX Extra strong, 2 1/2-inch, ready for planting, 75c per 100; \$7.00 per 1000.

10,000 ASP. SPRENGERI Extra strong 2 1/2-in., \$2.00 per 100; \$18.00 per 1000. Fine 2 1/2-inch, \$1.25 per 100; \$12.00 per 1000. CASH WITH ORDER.

The W. T. Buckley Plant Co., Springfield, Ill.

BEGONIA GLOIRE DE LORRAINE,
Begonia Light Pink Lorraine,
For July and Later Delivery,
\$15.00 per 100; \$140.00 per 1000.
Edwin Lonsdale, Wyndmoor, near Chestnut Hill, Pa.

Please mention the American Florist when writing



MODEL EXTENSION CARNATION SUPPORT

Made with two or three circles. Endorsed by all the Leading Carnation growers as the best support on the market.

Pat. July 27, '97, May 17, '98

Prompt Shipment Guaranteed.

IGOE BROS.

226 North 9th St., BROOKLYN, N. Y.

NIKOTEEN
IT COSTS 4 CENTS FOR EACH 60 FEET OF FLOOR SPACE

DOES NOT INJURE THE MOST SENSITIVE PLANTS - ENDORSED BY PROMINENT FLORISTS - USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT - 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN SOLD BY SEEDSMEN - CIRCULAR FREE - SKABCURA DIP CO. CHICAGO.

Kill AND SAVE the Bugs!
QUICKLY DOES IT!

Invalid Appliance Co.,
MANUFACTURERS OF
COLUMBIA PLANT TUBS

"The kind that never fall apart."
If your seedsmen doesn't handle them, order of us direct.

FACTORY AND OFFICE:
150-160 WOODER ST., CHICAGO, ILL.
TELEPHONE NORTH 655

WE NOW OFFER

"Chemicals"

for making LIQUID COMPOST. Dry powders all soluble in water. Composts cost less than 1/2c per gal. Correspondence invited.

EASTERN CHEMICAL COMPANY,
620 Atlantic Ave., Boston.

MOLLER'S

Deutsche Gartner Zeitung

The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

Moller's Deutsche Gartner Zeitung is published weekly and richly illustrated. Subscription \$3.00 per annum, including postage. Sample copies free.

LUDWIG MOLLER, ERFURT, Germany

TO KILL ALL Greenhouse Bugs

USE

"NICOTICIDE"

Clean and harmless as Fumigant or Spraying. Ask your seedsmen for it or write to

The Tobacco Warehousing and Trading Co.,

1000 Magnolia Ave., Louisville, Ky.



PURE, DRIED SHEEP MANURE

In ton or carload lots, for immediate delivery. Address

MONTANA FERTILIZER CO.

Box No. 153.

Elgin, Ill.

The Florists' Hail Ass'n Pays Losses Promptly.

Reserve fund \$10,000. For particulars address
JOHN G. ESLER, SADDLE RIVER, N. J.
Please mention the American Florist when writing.

Sigmund Geller Florists' Supplies

Looking for Fall Novelties?
LOTS OF THEM ON EXHIBITION.
108 W. 28th Street, New York.

SOMETHING ENTIRELY NEW. A Florists' Plate Book.

150 Plates and nearly 300 varieties for \$3.50 or three for \$10.00.

You can't do business without it.
VREDENBURG & CO., Rochester, N. Y.

KIFT'S Patent ADJUSTABLE VASE HOLDER

No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$2.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nickel, with three clasps for 5 to 6-inch pots, each \$1.75.

KIFT'S PATENT Rubber Capped FLOWER TUBES, 1 1/2-inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.

It is good business policy to mention the

American Florist

When you write to an advertiser.

Westerly, R. I.

BOSTONIANS VISIT A GROWER.—STOCK IN FINE SHAPE.—THE NEW WHITE CARNATION.—IVORY ROSE IS LIKED.—NEW RANGE CONTEMPLATED.

A delegation came from Boston one day last week to see how Lillian Pond, the favorite white carnation of last season, is doing at her new home in Westerly, R. I. Mr. Reuter's establishment consists of about forty houses and a good share of the space is given over to carnations, of which there are 40,000 plants this year, one-half of the entire planting being the new Lillian Pond, and thus indicating conclusively Mr. Reuter's own faith in the variety. The plants are sturdy, with no excess of grass, the flowers pure white, very fragrant, and those being cut even at this early date measure three inches and over in diameter, with stems long and strong. It seems a gem.

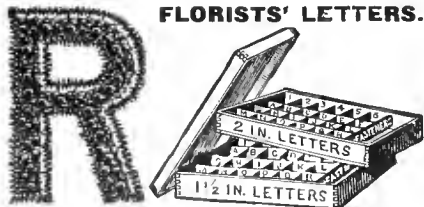
All the favorite varieties, such as Lawson, Prosperity, Queen Louise, Cressbrook, Floriana, Gaiety and Genevieve Lord, are grown here in greater or less quantity. A considerable proportion have been in the houses ever since the middle of June, having been set in the beds from pots, and these are giving much satisfaction. Lawson under this treatment is giving first-class flowers at this early date, with stems from fifteen to eighteen inches long.

Mr. Reuter has learned to like Ivory rose very much during the time he has been growing it and recommends this variety on account of its constant prolific blooming character, for those who grow roses for their own daily retail consumption. Bride and Bridesmaid have always been grown extensively here. There are now several houses of grafted plants in first, second and third year. A range of several houses each 600 feet long is contemplated in the near future and a farm of twenty-seven acres recently purchased is depended upon to afford room for another range or two later on.

BABYLON, N. Y.—The Austin Corbin estate has been sold to A. A. Hausman. Fred. Donaghue remains in charge of the greenhouses and grounds.

Boston Florist Letter Co.

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00. Script Letters \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager, 84 Hawley St., BOSTON, MASS.

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IMPROVED VAPORIZING PANS VENTILATING APPARATUS. For Tobacco Extracts, Etc. Send for Circulars. DILLER, CASKEY & CO., SUCCESSORS TO JENNINGS BROS., 8. W. Cor. Sixth and Berk Sts., PHILADELPHIA.

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They are beautiful, uniform and perfect. There's money in handling them at present prices.

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WHEN WRITING ADVERTISERS.

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Flushing, Long Island, Dec 11th, 1901. MR. THERON N. PARKER, Brooklyn, N. Y.

Dear Sir— I have used your Wire Carnation Support the last two years in all about 12,000. They fit the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time. Very truly,

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MR. THERON N. PARKER, Harrison, N. J.

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We were much pleased with the simplicity, strength and neat appearance of the support.

Yours truly F. DORNER & SONS Co.

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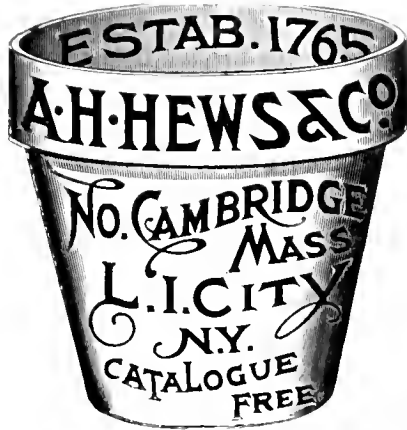
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1500 2½ "	5.25	60 8 "	
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1000 3 "	5.00	48 9-in., in crate,	\$3.60
800 3½ "	5.80	48 10 "	4.80
500 4 "	4.50	24 11 "	3.60
320 5 "	4.51	24 12 "	4.80
144 6 "	3.16	6 16 "	4.50

Send pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address:

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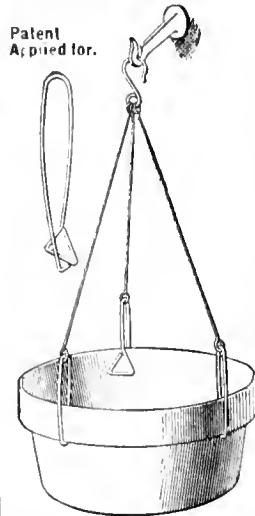
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FLOWER POTTS.

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We are headquarters for a general assortment of the necessary material and supplies that you are looking for. If you are about to improve or construct, consult us.

In connection with the dismantling of the Pan-American Exposition, we have for sale:

20,000,000 FEET of fine seasoned lumber, practically new, consisting of all sizes of joists, timbers, dressed and matched boards and flooring; also sash and doors.
 50,000 FEET of roofing glass.

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We are headquarters for pipe. We offer you:

100,000 FEET of 2 to 4-inch wrought iron, lap welded casing. We can furnish this material in three ways: Either with sleeve or jacket couplings, screwed ends and threaded couplings or with expanded cast iron flanges with bolts and nuts.

1,000,000 FEET of standard black wrought iron pipe, size ¾ to 12-inch. It is second-hand but has new threads and couplings and is in first-class condition.

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VALVES and fittings of every kind.

BOX COILS for heating purposes.

RADIATORS, new and second-hand.

We also offer the following bargains in

Heating Boilers

50 CAST-IRON sectional heaters, capacity from 450 to 5,000 feet.

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FOUR 36x10 Horizontal Tubular.

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FIVE 42x10 Horizontal Tubular.

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SIX 48x14 Horizontal Tubular.

TWO 54x16 Horizontal Tubular.

FOUR 60x16 Horizontal Tubular complete with all fittings.

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A carload of shovels and spades that we are selling at \$5.00 per dozen.

We carry a complete stock of hardware and farm implements, besides plumbing material of every kind.

Write for Catalogue No. 47,
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Cincinnati.

TRADE GOOD AND WORTHY STOCK SELLING WELL.—FLORAL DESIGNS AT THE FALL FESTIVAL.—NOTES.

The floral display at the festival last Saturday brought out a fine showing of lodge emblems. All the designs were elaborate and a perfect reproduction of the insignia of the order furnishing it. The judges had quite a task in awarding the prizes. Each florist was paid for the design he made up by the order the emblem represented. John Bertermann, of Indianapolis, and George Reimers, of Louisville, acted as judges.

Trade the past week has been very active and stock of all good kinds moved well. Sunday the weather turned cooler, which had a tendency to shorten the supply somewhat and increase the mildew on roses. Some very good carnations are being sent in by C. C. Murphy, his white being particularly good and moving well at \$1 per hundred with not nearly enough to go around.

Chas. L. Washburn, of Chicago, was in town last Friday and we regret very much that illness prevented him from prolonging his visit.

J. A. Peterson held an auction sale of plants last Friday and is well satisfied with returns. D.

Washington.

BUSINESS IMPROVES SLOWLY.—COAL QUESTION A WORRY.—VARIOUS NOTES.

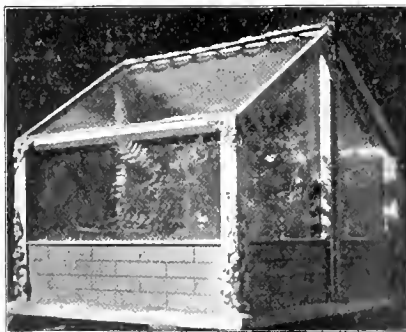
Trade is opening slowly. Asters, dahlias and gladioli are still plentiful. Roses are quite equal to demand. J. R. Freeman is cutting a number of fine Bridesmaids. The American Rose Company has been cutting a fine lot of Ivory and their Hungarian yellow rose.

The coal question is beginning to be quite a serious affair here. Some that have been burning anthracite coal are making preparations to use bituminous. But even this smoky coal has been run up to \$7 per ton and very small quantities to one customer.

The past week we had plenty of rain and the weather is fine now. The bedding in the parks and squares is at its best and will make a fine showing for the G. A. R. encampment.

George C. Shaffer is fitting up a new store at 1711 Pennsylvania avenue N. W., in addition to his Fourteenth street store. He hopes to have the opening October 6. P. G.

Miniature Baby Greenhouse



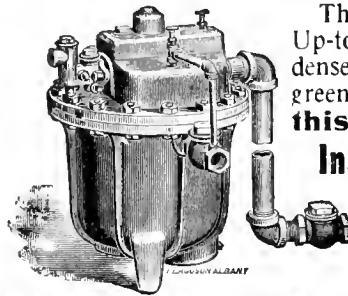
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1 house..... \$ 4.50	1 house..... \$ 6.50
2 houses..... 8.50	2 houses..... 12.50
4 houses..... 16.50	4 houses..... 24.00
6 houses..... 24.00	6 houses..... 34.50

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Steam Traps SAVE COAL



This is the Return Steam Trap used by the Up-to-date Greenhouse men to return the condensed water from the heating coils in their greenhouses. **Have been in use for this purpose over thirty years.**

Insures an Even Temperature.

Send for Red Catalogue.

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ALBANY, N. Y., U. S. A.



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If you want water only when the wind blows a windmill will do your work and cost less money than our Rider and Ericsson Hot Air Pumps, but if you want water every day while your flowers are growing and do not want your pump blown down when the wind blows too hard, no pump in the world can equal ours. We have sold about 20,000 of them during the past twenty-five years, which is proof that we are not making wild statements.

Our Catalogue "A 3" will tell you all about them. Write to nearest store.

Rider-Ericsson Engine Co.

35 Warren St., NEW YORK. 692 Craig St., MONTREAL, P. Q. 40 Dearborn St., CHICAGO.
239 Franklin St., BOSTON. Teniente-Rey 71. HAVANA, CUBA. 40 N. 7th St., PHILADELPHIA.
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3 ft. 3-in. x 6 ft.....4 rows 8-in. glass
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Clear Cypress 1 1/4-inch thick, without paint or glass.

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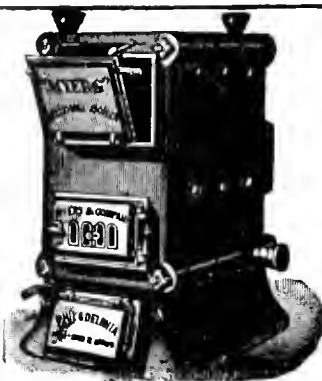
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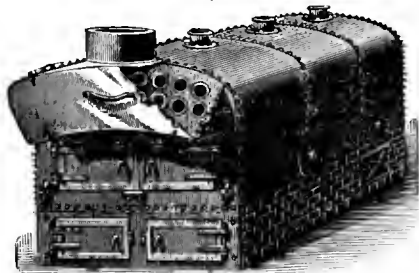
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(Patent applied for)

will want all your beds made our way. The cost is reasonable.

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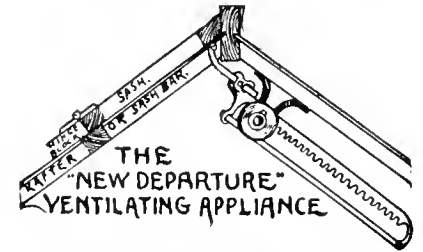
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THE AMERICAN FLORIST



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Seasonable Plant Notes.

Plant houses are liable to be somewhat congested at this season, unless it may be in the case of some of the wholesale dealers, the latter naturally making every effort to get out their orders before severe frost may be looked for, or at least all that can be delivered before frosty weather sets in.

But it is the retail grower and dealer who is likely to be especially crowded just now, for trade has scarcely opened up enough to give him room, while the tender stock from outdoors is claiming space and attention, and the plants grown under glass throughout the summer are still increasing in size and need the fullest advantages of light and air that can be given them during the damp days and chilly nights that so often prevail in the autumn.

A bench full of plants, be they palms, Boston ferns, cyclamens or primroses, needs to be set over occasionally in order to clean off dead leaves, weeds and any other rubbish, and at the same time to turn the plants around and to arrange them in regular sizes and straight rows so as to give a good general effect, for many a good sale has been made on account of a first impression gained by the purchaser upon entering the greenhouse.

It is also the contention of the writer that it does not cost any more to have a house of plants effectively arranged and kept in an orderly condition than to have them standing about in irregular blocks with unequal spaces between the plants and a general lack of system.

There are times when the rush of trade may play havoc with systems, but these rushes pass over in time, and just as soon as the lull comes then is the proper time to straighten out the stock, to find out what space is available, and to readjust matters in readiness for future business, for anyone who is looking for the possible \$1 per square foot from his greenhouse area cannot afford to waste space, and should promptly get something to fill in the chinks as soon as an opening appears.

There is not much doubt but that old greenhouses that are used for many seasons for growing foliage plants get more or less infested with insects of various species, and also with the germs of various diseases, and that much good may be done to such structures by emptying them of plants at some time during the summer and then giving the house a thorough fumigation with sulphur or

some other disinfectant, this treatment to be followed by a good coat of paint.

But this thorough method of cleansing is likely to be deferred just as long as possible, owing to the press of other work, and one measure of precaution that may easily be taken and continued throughout the year is that of not permitting decayed or insect-infested leaves to be thrown on the floor or under the benches, nor to store old pots or other rubbish in the same house with the plants.

The mention of such matters as this may savor of the kindergarten, but then we must remember that the methods used in the kindergarten lead the mind toward a higher education, and it will be readily admitted that there is still plenty of room for improvement in methods in very many of our florists establishments.

It is at this time of the year particularly that tender ferns are liable to suffer from an excess of moisture on the foliage during the night, the difference in temperature being so great between noon and midnight that the moisture in the air is condensed on the foliage of the ferns, and when this condition continues for several nights in succession the foliage begins to decay, or to "damp off," as it is commonly termed.

This state of affairs often causes trouble with adiantums, especially if the plants are rather crowded, and as a measure of precaution it is best to do the watering quite early in the day and also to keep on enough ventilation at all times to make a free circulation of air, some ventilation being needed during the night until the weather becomes so frosty that it is no longer safe to leave the ventilators open.

But it is also well to bear in mind that it is fresh air and not draughts that is needed for the welfare of the ferns and that there should be some discretion exercised in the quantity of air admitted. This applies to the commoner adiantums that are grown for cutting, among which are several forms of *A. cuneatum*; to *A. decorum*, another fern that is admirable for this purpose, and also to the various forms of *A. tenerum* that are grown by those who desire some larger and more effective fronds for decorative work, though the varieties of *A. tenerum* are possibly less affected by moisture overhead than are some of the less robust species, partly owing to the stronger texture of the fronds of *A. tenerum* and partly to the less compact growth which

permits the air to circulate through it better.

Adiantum Ghiesbreehtii (or *A. scutum*) is another fine fern for cut fronds, though not so commonly seen as some of the preceding sorts, the fronds of this species reaching a goodly size and being almost as beautiful as those of *A. Farleyense*, and less fragile.

The fern known as *Adiantum Ballii* is one of the varieties of *A. tenerum*, though the original plant appeared some fifteen or more years ago among a batch of seedling *A. cuneatum*, but the spores from which *A. Ballii* sprang were doubtless derived from a stock plant of *A. tenerum* that was growing in the same house. This fern has been received with much favor in some markets of our country, and is a very useful one to any grower requiring some large and graceful fronds on good stiff stems, and as *A. Ballii* germinates readily and comes true from seed there is no difficulty in keeping up a stock.

Adiantum Farleyense should still be growing freely, and it is not too late to shift on such plants as may be well rooted and liable to need more room, for in spite of its delicate beauty this fern is a vigorous feeder and requires plenty of nourishment, perhaps the best fertilizer for the fern in question being dry cow manure, a liberal quantity of which should be mixed in the stiff, turfy soil in which this fern delights.

Some very successful growers of *A. Farleyense* also like to mix some chopped sphagnum moss into the potting soil, and remarkably good plants have been grown in that compost, but the addition of the moss is not an absolute necessity to success with this plant.

After repotting *Farleyense* at any season of the year it is best to water carefully until the roots are moving freely again, for once the soil is soured it will be slow work to get the growth on the plants, but if they are potted just a little in this respect until re-established there will soon be nothing to fear in regard to watering.

It is occasionally stated, and perhaps with good intent, that one may dig up the Boston ferns that have been planted out on a bench for the summer, put them in pots or pans according to size, keep them in a greenhouse for two or three weeks, and that the plants are then ready for the retail customer. This rapid-fire method is enticing to the grower, and possibly has many practitioners, but like some other rapid-fire arrangements it has its recoil, and this is often found in the form of a vigorous kick from the retail purchaser after the early demise of such a plant, the moral being that it pays best to sell only thoroughly established plants. W. H. TAPLIN.

The Compost Heap.

Now is the time to put up your compost heap for the next year's roses. Although it might do to put it off for another month or more, it is better to attend to this matter as soon as possible, as there is no telling when we will get cold weather, which will be a hindrance.

There is a great difference in the soil in the several sections of our country and, of course, we are not all satisfied with what we are obliged to use, but as a general thing we make the best of what we have. However, where the soil is too light and sandy you can remedy this evil if you are fortunate enough to be able to locate some good sticky clay to mix with it. While this does not give you as good soil as that which is naturally heavy, it is, at

least, an improvement over the former soil.

The first thing necessary to a good compost heap for next year is a rich, fibrous loam. This is not to be found on an old pasture which has had no attention for years and is covered with moss, but, on the contrary, should come from a pasture which has a good thick sod with plenty of vitality.

Pile up the soil in a heap by packing a layer of soil, then a layer of manure, in proper quantity, and so on until the heap is completed. By forming your heap in this way, and allowing it to lie through the winter, the sods will be well rotted



GORDON GRAY.
(President Cleveland Florists' Club.)

and you will be able to cut it down and thoroughly mix and pulverize it next spring.

The quantity of manure to use will vary somewhat according to the soil, but about one-sixth of stable manure, cow manure preferred, is generally sufficient, with a light sprinkling of bone meal between each layer. R. I.

Gordon Gray.

Gordon Gray, the newly elected president of the Cleveland Florists' Club, was born in Banphshire, Scotland. He came to America at the age of sixteen years and entered the service of Jas. Dundas, at the corner of Broad and Walnut streets, Philadelphia, as assistant gardener. Many of the older members of the craft will remember him as a conspicuous figure during the monthly exhibitions held in the public square. Four years were spent at the Dundas place, and four years more as gardener with E. B. Grubb, of Burlington, N. J., after which, in 1863, he removed to Cleveland to take the position of head gardener to Stillman Witt, in whose service he remained twenty-six years. In 1890 he started his present plant-growing establishment, on Quincy street, where he has conducted a successful business ever since. ECHO.

SALEM, O.—Harry T. Miller has resigned his position as grower for L. L. Lamborn, at Alliance, O., and October 1 formed a partnership with Wm. Mundy. The new firm will be Mundy & Miller. Next spring they intend to build two houses 20x100 for roses.

Dahlias at Atco, N. J.

Those who have seen seven or eight acres of cannas in full bloom at this season of the year and journey to Atco, N. J., to see forty acres of dahlias and expect five times as grand a show as the cannas make, will surely be disappointed. And those who expect to see dahlias growing in rich soil of a loamy nature, which are six or eight feet high, will also be disappointed, for in Atco, with fields of sand to grow in, the dahlias are quite dwarf in comparison. The dahlias here, of course, grow in height somewhat according to the time they are planted.

I saw one part of the farm that had been planted the first week in September. Many of these did not appear to be more than a foot high, and most of those in the main plantations were from two and a half to four feet high, though the new single variety called *Twentieth Century*, "the star of the whole aggregation," appeared to be six or seven feet high. It would be interesting to know how high this variety grows in soil naturally more fertile and of a more loamy character.

The office, greenhouses and water supply are located on the highest point of this great dahlia farm, which, as before stated, is one bed of sand, and for the most part a gentle grade from this point has, at some trouble and expense, been secured to facilitate irrigating purposes. In this bed of sand it must require a strong flow of water to reach to the furthest point. Irrigation, I presume, is not practiced to any great extent, only on those varieties grown for cut flower purposes, and these are planted as conveniently as possible to the office and packing rooms and the water supply.

Lawrence K. Peacock, who is at the head of this dahlia industry, states that they use little or no barnyard manure in their operations and pointed out a block that has received no manure for the past two years. For plant food the concentrated fertilizers are used and they are not applied until the plants show well above ground and then are broadcasted and cultivated in. Mr. Peacock stated that two carloads had been used this year, of ground bone, nitrate of soda and one of the potash salts, but whether it was muriate or sulphate I failed to catch. As to the proportions used, I neglected to ask. It has been proven by experiment, I believe, that sulphate of potash is better for potatoes and tobacco; for the latter the flavor or burning qualities of the "weed" are improved, and for potatoes it is said the sulphate produces a more "mealy" or "floury" article of food. But whether the dahlia is at all particular did not appear.

When mention was made that the plants are growing in nothing but a bed of sand—yes, sand, apparently, that a bricklayer or stonemason or plasterer would not hesitate to use in any of their respective operations, nor would a propagator demur at using it in which to root any or all kinds of cuttings—Mr. Peacock said that there is a clay subsoil. Later on we came upon a washout at the lower end of the field and could see that there were some little evidences of loam at a depth of three or four feet, but it was far from having the tenacity or the adhesiveness we are accustomed to in our Wyndmoor clay.

The varieties grown at Atco are too numerous to mention. They were really bewildering to me, who had not been identified with the dahlia for about thirty years. Nor could I take the interest in them that I should have done until I saw two very old friends in Arrah Na

Pogue and Frank Smith, both similar in color and markings, yet quite distinct. They are of the old-fashioned, double dahlia type, and in color they were deep maroon, tipped with pink or white.

William K. Harris said, at the display of dahlias made at the September meeting of the Pennsylvania Horticultural Society, that there has been no improvement in the dahlia for fifty years. He said there were just as good varieties half a century ago as there were on exhibition in Philadelphia the third Tuesday in September, 1902, and as to the cactus dahlia, they do not appeal to him, but the Twentieth Century might be all right as a cut flower.

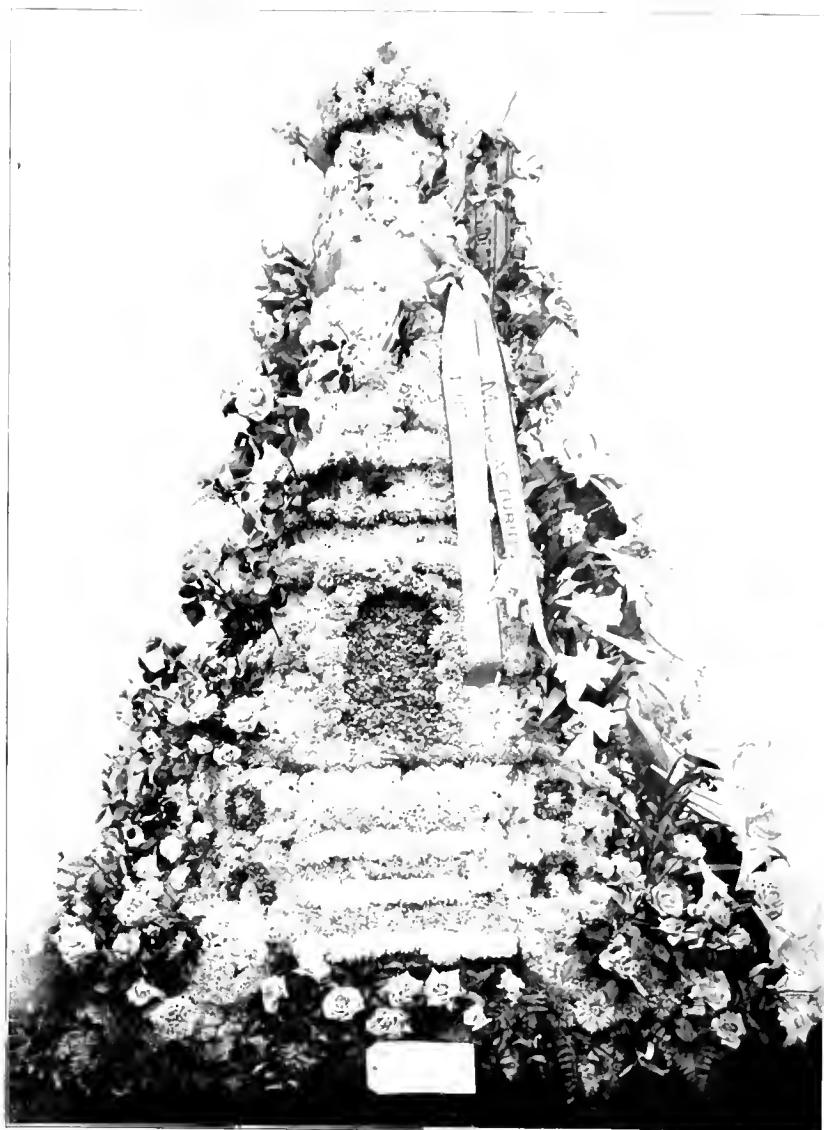
Dahlias are prone to sport, especially the parti-colored varieties. One which Mr. Peacock drew our attention to he had dubbed Uncertainty. This, I understood him to say, is known as John Thorpe, Mary Eustice, Emperor and Floral Park Jewel. The flowers of this variety vary on the same plant from a solid deep red to partly red and partly variegated, and some flowers are uniformly variegated, and flowers of a Daybreak pink are frequently met with. One cultivator of dahlias, (or was it a publisher of a catalogue?) wanted to name it Helen Gould, but Mr. Peacock promptly put his foot down upon this questionable proceeding.

We came across Penelope. I remember this name when a boy, but the varieties were distinct. This at Atco was one of the best fancy varieties in the whole collection. The flower was quite full to the center, of perfect form and finish, and a delicate shade of lilac in color. May Loomis was similar in its color shades, but quite distinct and quite a favorite.

Perle D'Or, a white cactus-shaped variety, is very useful as a cut flower and considered by S. S. Pennoek, who was also a visitor, as one of the best for that purpose. Red Hussar, a bright red in color, double, and Lyndhurst, another in the bright red class, are also excellent as cut flowers. Solid colors are the most sought after for cut flowers by the retail florist, so said Mr. Pennoek, who handles all the cut flowers from this dahlia center. It was interesting to be present to hear the comments on the different varieties. Most of the intermediate shades were passed by and dubbed "off colors," many of which attracted my attention just because they were of uncommon shades.

No. 13 is a bright red pompon. Black-bird, as its name implies, is almost black in color, changing to rich velvety maroon, and having a bright red spot at the base of each petal. The flowers are large, regular in form and finish and the petals are of good texture. The plant is inclined to be dwarf, with dark, glossy-green foliage of finely cut or fern like character. Mr. Peacock says it is an early bloomer; as to its profusion, we could see that for ourselves. The flowers are single. An attractive single white variety has been appropriately named Anemone and ought to prove useful in the cut flower list.

Among the 5,000 seedlings there were few indeed that could be classified as of no value, but many that are not only improvements upon the types which they represent, but many of entirely new types were to be seen, some resembling the finely cut petals of the chrysanthemum; one in particular reminded me of the old chrysanthemum, Abd-el-Kadir. There is a future for this class of dahlia, one would think, being more graceful in form than are the older formal "humpish" varieties of our youth; especially does



POTTERS' KILN, BY G. & J. W. LUDWIG, ALLEGHENY, PA.

this apply when we are thinking of dahlias for cut flowers.

Dahlias are useful both as blooming plants for outdoor decoration where they do well, and also as cut flowers with the careful selection essential for this purpose, but it does seem like a piece of presumption to designate any dahlia so far seen as "orchid dahlia." To what class of orchids is it supposed to belong? Not a cypripedium surely, nor a cattleya, neither a dendrobium. It is all very well to get enthusiastic about a new good thing, but let us not allow ourselves to exaggerate, thus subjecting ourselves to possible ridicule.

The Twentieth Century is a large flower, frequently being six inches across. The tip and base of the petal are white, shading or blending towards the center of the petals with delicate solferino. It is a strong, healthy grower and if it will do as well generally as it does at Atco it ought to become popular.

Since dahlias do so well in the sand here, would it not be well to experiment with sand in the hills when the tubers are planted? In Great Britain the dahlia is highly fed, and treated liberally generally, especially when same are under cultivation for exhibition purposes. The flowers grow much larger over there than

were to be seen in New Jersey, possibly owing to the more moist and congenial climate, in addition to the higher cultivation given them, but if the same care were given them here as is given them over there, possibly we could produce equally as large and as finely finished flowers as are to be found on the exhibition boards in Great Britain.

Although as stated in the opening paragraph heading these notes, the dahlia does not make as grand a display as does the canna for general outdoor decoration, yet the dahlia flowers will bear closer examination than will a canna and will give correspondingly more satisfaction in that respect, as the latter are of little or no value as cut flowers. Mr. Pennoek says that he finds ready sale for all and more than all that have been sent to him from Atco so far this season, especially when the flowers are bright or delicate or distinct in color, and of good form and texture, and have general good characters for keeping, for there is a difference in the dropping or keeping qualities of dahlias as in many other flowers.

Altogether I enjoyed myself thoroughly and hope to pay a visit to Atco again when the dahlias are in bloom.

EDWIN LONSDALE.

A Potlter's Kiln.

The illustration on page 375 is from a photograph made recently of a design built by G. & J. W. Ludwig, Allegheny, Pa., for the Manufacturing Potlter's Association for the funeral of one of their number, Isaac Knowles, of East Liverpool, O. The piece was six feet high and large quantities of choice stock were used. The price received for the piece was \$150.

Wintering Aquatics.

After a season of pleasure and delight, or even disappointment, in the cultivation of aquatics a perplexing problem confronts many who are interested in this particular class of plants. Of course it is a matter of little or no concern to those who have had a few season's experience, but, judging from the numerous inquiries as to how to winter plants a few notes on this subject may not only be of interest but may possibly save some valuable stock.

Because of different methods of culture it is almost impossible that these remarks will fit every case. There are plants in the natural pond, artificial pond, large and small fountain basins, pools and tubs. There are two classes of plants to be considered, hardy and tender. When I speak of hardy water lilies it must not be considered that they will stand actual freezing, as will hardy perennial plants. Aquatics will not, although there may be exceptions. Certain it is that the native American varieties will not bear freezing, but under natural conditions and in water two or more feet deep they are out of reach of frost and are secure, so long as no accident occurs and the pond retains the water.

The same holds good in large artificial ponds, however constructed, but there are numerous artificial ponds that must be protected, not so much on account of the plants as for the masonry, and in many

salt hay and branches to keep them all in place, or even boards could be placed on the top. Of course there are other materials than those mentioned but in all cases leaves are indispensable, whatever light material is used on the top of them.

Another method is to remove the plants. Large plants in tubs or boxes cannot be removed entire; they must be dug up. To dispose of these and keep them in good state of preservation until next planting time is the question. Some favor placing them in a cellar but here they are apt to be unduly excited into growth before they can be planted out with safety. To dig the roots and put them in boxes with soil or sand and place them in water out of the reach of frost is courting disaster. It is almost impossible to dig roots without being bruised or broken more or less and if such roots are again placed in water out of doors, they will certainly rot. If placed in a cool house, packed fairly close together in a tub and kept at a moderately low temperature they will survive, but they are just as liable to start into growth too soon as if they were placed in a cellar. Possibly the best method is to bury them. Select a porous soil or make it so. Dig a trench twelve to eighteen inches deep, the colder the section the deeper the trench. Place the roots close together, cover with sandy soil or sand, give a good soaking of water to settle the sand between the roots, cover the spot with a good coating of leaves, cover these with same poor conductor of heat and cold and finish off with branches to keep all in place. The roots will keep in excellent condition until it is safe to plant out the following spring.

In small ponds and basins it will be prudent to leave the roots undisturbed. Cover the whole with boards, piling leaves on the top and around and covering these again to keep them in position. In sections where there is annually a

Nelumbiums are more difficult to manage, at least in some respects. Although they are hardy they are no more so than hardy nymphæas. It is not prudent to dig nelumbium tubers in fall; they will suffer more than nymphæa roots. Leave them undisturbed and if they cannot be well covered with a sufficient depth of water have all water drawn off and use leaves and so forth for a protection as before recommended for water lilies. An excellent way to winter nelumbiums grown in tubs is to sink the tubs in the ground to the level of the rims and protect with leaves and other material sufficient to keep frost from the tubers. Several methods will suggest themselves in individual cases.

With tender nymphæas there is a great difference between the roots and tubers of the day-flowering and night-flowering plants. The night-flowering varieties produce numerous side shoots and these toward the end of the season produce tubers which can be dried off, but the main crown will invariably rot. The day-flowering varieties do not produce side shoots, or at least produce them very sparingly, and the main shoot or crown will not submit to a drying process, but will rot. These remarks apply to full grown plants and plants that have flowered during summer.

In the case of the night-flowering varieties, after one or two light frosts the plants may be dug up, cutting off the long roots and the large leaves and, with the soil adhering, plant the same under the benches in the greenhouse or place them in a box, planting them the same as if under the bench, and put in a warm cellar where they will remain undisturbed. After planting, in either case give the plants a soaking of water to settle the soil; then let it dry out gradually. The leaves and central crown will die down, but the side shoots will ripen good tubers, and can be left in the same condition until time to start them or plant out of doors.

The day-flowering tender nymphæas should be dug up and trimmed, root and leaf, and placed in pots of sufficient size to contain the roots without much crowding. The plants should be placed in a shallow tank, or tubs will answer. These should be kept in any ordinary greenhouse with winter temperature of 60° to 65°. Where no greenhouse is at command a warm cellar or such place will answer the purpose, but living plants require light. Small and medium-sized plants will ripen single tubers and these, if grown in pots, will frequently be starved into a resting condition when they should be growing freely. These make the best of tubers for wintering over and may be dried off and kept until wanted for starting in spring. Tubers or plants of most varieties of nymphæas can now be purchased at so little cost that in many cases the labor, care and space is worth considerably more than saving old stock. The same remarks apply to many of the minor aquatic plants such as water poppies, water hyacinths, water snowflake and so forth.

WM. TRICKER.

WARE, MASS.—Chas. F. Clark has opened a flower store here.

PEKIN, ILL.—Geo. A. Kuhl has been quite ill the past week and under the doctor's care.

FENTON, MICH.—George Bridson has recently completed an addition to his glass and installed a new hot water apparatus.



A DAY'S CUT OF ASTERS IN A SUCCESSFUL SEASON.

cases it is the simplest and easiest method to draw off the water. In such cases attention must be turned to the care of the plants. In most cases they will be benefited by being undisturbed, and if the outlet is kept clear, which can readily be done by covering it with wire netting, so that rain and melted snow can pass off, the plants can be protected with leaves,

good fall of snow and ponds are of moderate size, a temporary roof could be built over them, a coating of leaves placed around, the snow doing the rest of the work. Plants grown in tubs may be treated the same way, either the plants taken out and buried or the tubs sunken in the ground and protection afforded with leaves and other material.



FIELD OF ASTERS GROWN FOR THE NEW YORK MARKET BY FRANK L. MOORE, CHATHAM, N. J.

Asters For the New York Market.

We have found the growing of asters for market an arduous and, at times, a tantalizing task. One year the plants reached the blooming stage in fine shape and then several heavy rains robbed us of three-fourths of the yield. In this way we went through the long mill of shifting, weeding and disbudding without the labor of reaping. On the other hand, this year we had more than average success with the crop. Although, as every grower must know, we had in New Jersey much wet weather just at the critical time, in early August, yet, having well-drained ground, the blooms which matured in the first three weeks totally escaped harm. The whites which came last showed more harm done by wet than we liked to see, still there was a good proportion of fancy grade blooms among them. This year we lost but a small fraction of the plants by stem rot. This we attributed to the slope of the ground, which was one to ten.

Both the accompanying illustrations were taken on September 3, 1902. The larger picture was taken about 3 p. m., just previous to the regular daily cut. The second, the same day, immediately after. That cut averaged about one bloom to the plant. During the entire season of about three weeks there was an average product of ten blooms per plant rating as high or higher than the first grade. The average of grades we found was about one-fifth fancy, one-third extra and the remainder first. We found that on account of the bad effects of rain, the grades did not run as well the latter as the first part of the season. As to growing, the seed is sown in

February. The plants are set out in the first part of May. They are spaced twelve inches one way and eighteen inches the other. Each bed contains five rows. We have found this to be the most convenient arrangement. The ground is prepared with plenty of manure. A sloping surface is preferred, for the aster cannot endure standing water or stale moisture. We find it advisable to change the location each year, principally in order to avoid stem rot and pests. For the latter we use slug shot occasionally, but this year insects have done little harm. Again, we find it well to have a water supply near the field, for in dry weather frequent watering is very essential. Next in order comes the weeding and disbudding. The latter occupation is by no means a light one. At first, when the plant has reached sufficient size, the center is taken out. Then as the branches attain length it is necessary to remove the side shoots. This has to be done at least twice in a season. The blooming season begins about the middle of August and lasts until the second week in September. The best period is the last week in August.

RALPH C. B. MOORE.

Hellanthus Rigidus.

Taking everything into consideration I am inclined to call it the best of the sun-flowers. Here in the garden it has been in bloom for a month at least, and I shall expect to find some blooms in early October. I do not think it is as generally known as it deserves, for we have sent out a great many plants of it, in the last six years, to people who saw it here for the first time.

JOHN F. COWELL.

The New York Flower Show.

At the meeting of the Tuxedo Horticultural Society, October 7, at Tuxedo, N. Y., Harry A. Bunyard spoke in part as follows:

Anent the coming exhibition of chrysanthemums, palms, orchids and foliage plants under the auspices of the New York Florists' Club, to be held at Madison Square Garden this month, it is well to say something, perhaps, beforehand. It is not possible to hold a show on the "Hurrah" plan because New York is New York, and New York methods must be followed and any catch-penny feature must be harred. The National Sculpture Society this year is working in conjunction with the New York Florists' Club and I do not know of any co-exhibit that can be more harmoniously arranged or blended with horticultural exhibits. For the information of the uninitiated I might say that the floor area of the amphitheatre of the Madison Square Garden is nearly 35,000 square feet and the height, from floor to roof, which is of glass and iron, is nearly eighty feet, so you see one has quite a large "hall" to fill and decorate.

The Sculpture Society has already received nearly 200 entries. The pieces of statuary range all the way from miniatures that can be held in the palm of the hand to pieces weighing several tons. As to the entries for plants, flowers, orchids and foliage plants, as the latest date for making entries is October 25, they are somewhat problematical, though enough entries are already in from the large exhibitors to make this line an assurance, with "several counties to hear from."

The entrance or lobby leading to the exhibition will be flanked alternately with statuary and bay trees. At the immediate entrance a large arch of trelliswork will be erected, covered with wild smilax and other greenery. Passing under the arch one will see a vista of the whole exhibition. A long, unbroken walk twenty-five feet wide will reach to the far end. Ranged on either side will be massed the cut flower exhibits, with a background of palms, foliage plants and statuary on pedestals. A feature of the cut flowers is that they will be arranged in groups of one color on benches of irregular size and shape, in stairway fashion and covered with sheet moss. The vases will be of uniform white, in harmony with the general color scheme, white and green.

At the east end, that is, opposite to the arbor, will be erected an immense arbor, semi-circular in shape, the two ends facing the arch, all of trelliswork and painted white. The base will be six feet in height, twelve feet wide, while stairways of rustic work will lead to the promenade, where a view of the whole exhibition can be obtained. Each side of the platform will contain sixteen archways of trelliswork and the roof will also be a trellis, all painted white and covered with wild smilax. Between the archways plants and statuary will be alternated. In the center of the arbor on the amphitheatre floor will be a semi-circular pool of water to be filled with water lilies and aquatic grasses. A fountain will be midway between the ends of the arbor.

On the two sides of the amphitheatre, about midway from either side and ends will be two square arbors of trelliswork, arched and about forty feet in height, in the same style as the other features, and on either side about midway between these arbors and the arch and semi-circular arbors four fountains will be installed.

A hedge of cedars will surround the garden, clipped to the height of the boxes which surround the amphitheatre. Where possible these will be trimmed to give a topiarian effect. A canopy of some light material and light blue in color will be hung from the roof, covering the whole

An Experiment With Hyacinths In Water.

The object of the experiment here described was to show whether the behavior of varieties was due to the variety itself or the manner of culture. The experiment was planned by Prof. John Fields and the writer in the fall of 1899 in connection with the work at the Oklahoma Agricultural Experiment Station. The experiment began December 11, 1899. Sixteen ounce, salt-mouth, glass bottles were used in place of hyacinth jars. Of each of nine varieties six bulbs were used and these were arranged, for convenience, in a solid square and the bottles numbered from 1 to 54. Six different culture media were used so that each bulb of each variety was in a different culture medium from the rest, as follows:

	Rain water.		Nitrogen.		Potash.		Phosphoric acid.		Chalk.		Complete fertilizer.	
	1	2	3	4	5	6	7	8	9	10	11	12
Leonidas, single, light blue..	1	2	3	4	5	6	7	8	9	10	11	12
Grandeur a Merville, blush white, single,	7	8	9	10	11	12	13	14	15	16	17	18
Bouquet Royal, pure white, double.....	13	14	15	16	17	18	19	20	21	22	23	24
Charles Dickens, double, dark blue.....	19	20	21	22	23	24	25	26	27	28	29	30
Gertrude, single, deep rose. 25	25	26	27	28	29	30	31	32	33	34	35	36
Czar Nicholas, double dark pink.....	31	32	33	34	35	36	37	38	39	40	41	42
Amy, single, bright carmine 37	37	38	39	40	41	42	43	44	45	46	47	48
Robt. Steiger, single, deep red.....	43	44	45	46	47	48	49	50	51	52	53	54
Voltaire, single, creamy white.....	49	50	51	52	53	54						

Each time the water was changed six cubic centimeters of the fertilizer were added. Set five was not changed at all. The chalk was introduced in order to neutralize any acid that might be formed. The water was changed at intervals of two weeks during the experiment. The plants were kept in a dark, cool cave for forty-nine days until the roots of some of the bulbs had reached the bottom of the jars and a little foliage showed, when they were placed in the greenhouse in subdued light. Notes were carefully made from time to time on the development of

Amy, early, fine; Robert Steiger, uneven, fair; Voltaire, very even, early, fine.

On March 7 Leonidas, Bouquet Royal, Charles Dickens, Gertrude, Czar Nicholas, Robert Steiger and Voltaire flowers all gone. Grandeur a Merville in prime condition. Amy had the second spikes of flowers at their best. The first stalks all gone.

At no time could any difference due to different culture media be detected but there was a marked difference in the different varieties. E. E. BOGUE.

American Paeonias.

Until recently it has been our custom to draw on Europe for our new paeonias, and most of us who have imported roots have had our experiences, often vexatious and costly. Some of the leading foreign propagators seem incomprehensibly careless or else they have not yet learned that "Honesty is the best policy," for a good deal of their stock has been sadly mixed. In one instance a leading English dealer sent an old customer in Massachusetts a lot not at all true to name. Lady Alexander Duff, for instance, was supposed to head the list, and this costs \$5 a root, but the plants were entirely spurious.

Now this is not an exceptional case and England is a long way off, so that it is hard to get mistakes corrected. I myself, imported from one of the leading dealers of Holland. On blooming the stock proved badly mixed. After considerable correspondence I secured a correction, but will it be any better? I cannot tell till blooming time again. Those he sent for Madonnas, which should have been fine, delicate flowers, were the coarsest kind of common pink.

Some years ago I sent to a large French firm for a choice lot. I think they were true to name, but they cost set down 60 cents a root. I afterward found I could get exactly the same kinds, with better roots, and true to name, only 200 miles away, where the propagator was using every precaution to keep his stock pure, and I could get them by the thousand for one-third of what the imported ones cost. This man some fifteen years ago bought about \$50 worth of the very best sorts and now has about 30,000.

It is time for us to begin to rely on ourselves for paeonias, first, because our leading propagators are responsible and reliable, and, second, because we have plenty of good, rich land and we can propagate cheaper than Europe can, and so save duty and freight. Paeonias can be grown as a field crop on our rich prairies and raised by the million. They are a crop in which labor does not count, like sugar beets. We are no longer obliged to go to Europe for our best varieties. A few years ago some of our florists commenced raising from seed. See what Richardson, of Boston, did. Where is there anything that can out-class his creations? His Grandiflora and Perfection stand beside the Glory of Erturt, and his Rubra Superba is peerless as a late flower. It is a grand, solid, crimson ball, with a delicate, satiny finish, and can be cut and kept in cold storage to the middle of July.

I have planted the costly, foreign kinds side by side with our Iowa and Nebraska sorts and for the life of me cannot see why preference should be given to the foreigners. Zoe Callot is unique and beautiful, but for delicacy of finish and exquisite loveliness it bears no comparison with Terry's Mrs. Harrison, which it so closely resembles. Many sweet and deli-



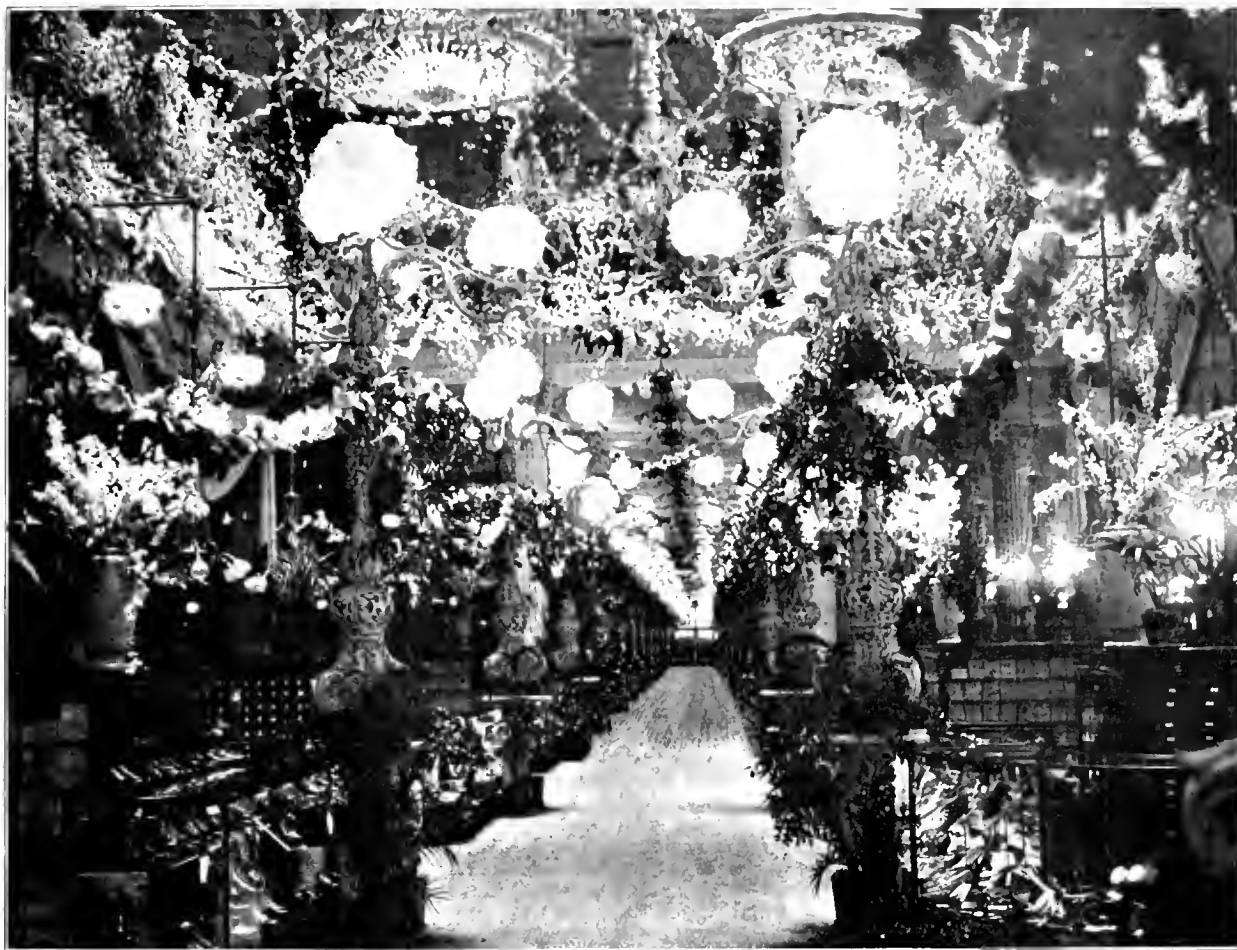
DELIVERY WAGON OF J. SIMMONS, OF TORONTO, CANADA.

of the rafters and reducing somewhat the height of the building.

Formal tables for the exhibits will be entirely dispensed with where possible and groups of plants displayed in unconventional lines. Specimens like foliage plants will be placed in raised beds, filled with tan-bark so that the pots can be plunged.

roots, flowers and leaves. In February the standing was as follows:

Leonidas, flowers late, uneven, good; Grandeur a Merville, late, even, good; Bouquet Royal, late, even, inferior; Charles Dickens, long, uneven flowering period, good; Gertrude, nearly always two or three spikes, uneven, fair; Czar Nicholas, very late, poorest of the lot;



THE MAIN AISLE OF MARSHALL FIELD & CO., CHICAGO, DECORATED FOR LAST WEEK'S "OPENING"

(Plants and cut flowers to a cost of over \$5,000 were employed in this work.)

cate ones come to us from over the sea, but Terry's Morning Star is equal to the finest. When we come to the deep crimson Pottsi, Fulgida and Rubens, Richardson's Kubra Superba, Terry's Grover Cleveland (Tecumseh) and Rosenfield's Red Cloud put them all to shame.

Mr. Rosenfield has been very quietly at work raising seedlings and, after discarding hundreds, he gave us Golden Harvest and Floral Treasure. I notice in the list of W. H. Arendt, given in the AMERICAN FLORIST for September 6, that he has put them both down as of the best twenty-five, selected from 300 kinds. Mr. Rosenfield has several thousands yet to be heard from. His Blushing Maid is one of the best.

There is a great future for our Japan hybrids. The new kinds recently imported are very unique and striking, and they seed readily planted among our finest sorts. I am sure we will have a progeny that will be a delight. I have saved about a fourth of a pound of these precious seeds and mean to see what they have in store for us. A large number of enthusiastic propagators are now at work and we will hear from them. But some are planting seeds from inferior, single and semi-double flowers that seed readily; such will raise a large family of scrubs. Save only seeds from the very best and raise thoroughbreds.

C. S. HARRISON.

PAWTUCKET, R. I.—C. S. Chase, of Dighton, made a fine exhibition of dahlias at the New Idea store last week.

Florists and "Openings."

It is much to the interest of the flower trade to encourage the "opening" as practiced by dealers in other lines of merchandise; each "opening" not only provides a week's work for sundry loads of decorative plants and an outlet for more or less cut flower stock, but the idea is infectious and the custom of calling in the florist to assist the store decorators is rapidly becoming an established practice.

A new record was made in the matter of expenditure for floral purposes at the dedication of the new retail store of Marshall Field & Co., in Chicago, last week, when more than \$5,000 was paid for cut flowers and the use of plants. But the premises are so tremendous that even with this lavish outlay for material, most of the higher decoration had to be made of the paper flowers which were so long the one resource of the window trimmer. More than 4,000 palms and large ferns made less show in Field's great store, with its two acres to the floor, than would a single wagon-load in an ordinary dry goods store in a provincial city, and where Field needed over \$2,500 worth of cut flowers for not very large bouquets on the show-cases and counters, the average storekeeper could make as good a showing with a very modest investment.

The effect at Field's was worthy of the approval it received. Specimen plants were used in the show windows and on the floor, vases of roses and carnations

of best grade on the show-cases and more plants on the shelving, carrying the natural stock well above the eye, to where it blended harmoniously with the garlands and shaded lights of the main aisles and the wide light-shafts. The principal aisle is 415 feet long and during the week of the opening, despite almost continuous rain, it was packed with people, and the comments on the cut flowers were such that it is certain that they will be liberally used at every pretentious affair of the kind in the future. It was the first time cut flowers had been used to any great extent in a decoration of this character, but they are as necessary, at least as effective, as plants.

One item which the local florist anywhere can sell to the store of whatever character, which is about to have an "opening," is wild smilax. Nothing makes so much display for the money, and the cost is low where quantities are required. Field used nearly a hundred cases.

Chrysanthemum season is at hand and it affords an opportunity for effective work in the way of decorating for store openings. Given a modern store, a dozen cases of wild smilax, a couple of loads of palms, not too much scattered in the store, a few vases of fair chrysanthemums in several varieties and it requires no great skill to produce an effect which will more than please the man who pays the bill and make the praise of the visitors pave the way to other jobs of the kind. It is the crowds

which make these efforts of value to the florists; it gives the people a chance to become familiar with flowers, to see how they are arranged for effect and to learn to expect them. At Field's the average attendance for six days was from 200,000 to 350,000, averaging not far from 300,000. This seems extraordinary in view of the fact that the largest attendance in the first two months of the World's Fair was only 154,000 and that on October 9, Chicago day, the attendance of 716,000 was the largest gathering of which there is authentic record.

When the florist is approached about an "opening" it is worth while to bear in mind that at most affairs of the kind the ladies are given some little gift. One case is on record where a dealer in cemetery monuments gave an "opening" and attracted literally thousands by advertising that each lady would be given a palm, and she was, a 2½-inch or 3-inch latania. A woman would rather have a plant or a flower than any other souvenir and in chrysanthemum season the local florist can always supplement his own resources by calling upon the wholesalers in the nearest big city. At the time of spring openings, if not in fall, there is almost always a large supply of roses and carnations which can be used both for decorations and gifts.

Private Greenhouses.

One of the most encouraging features of the present period of extensive greenhouse building is the extent to which private glass is being erected. The growth of the love of flowers, it cannot be the love of ostentation, is finding expression in the erection of ranges of houses which will be a constant inspiration to the owner, his friends and others of sufficient means. Some retail florists have been known to deplore the erection of private greenhouses, but it is rather a matter for self-congratulation, for whatever may be lost in small sales of cut flowers is more than compensated for by the demands upon the wholesale plantsman, and of still greater value to the trade at large is the stimulus to trade through the wish for flowers bred by their frequent sight or daily use. Never before were so many pretentious private ranges built as this season. As an instance of the activity in this direction it may be stated that at present Hitchings & Company are at work in one state alone on the following: At Weston, Mass., six houses for Gen. C. J. Paine; at Pride's Crossing, Mass., five houses for W. B. Thomas; at Belmont, Mass., four houses for H. O. Underwood; at Quissett, Mass., house for H. A. Marshall; at Cohasset, Mass., house for H. W. Wadleigh.

Dahlia Show at San Francisco.

Three commodious assembly halls in San Francisco's Mission Opera House proved none too spacious for the accommodation of those who, on Saturday evening, September 27, attended the Pacific Coast Horticultural Society's complimentary dahlia show, which all spoke of as being exceptionally fine. In addition to the floral exhibits several features were worthy of mention, the quality of the abundant supply of cake, lemonade and claret punch, the concluding dance, the music and the musicians. The music was by a mandolin orchestra of seven young ladies, each as pretty as a prize flower, and as contrasted in their loveliness as were the dahlias which

the ladies wore in their hair, respectively, Countess of Lonsdale, Starfish, Grand Duke Alexis, Britannia, Mrs. J. J. Crowe, Night and Standard Bearer.

The manager of this banner dahlia show was Wm. Eldred, chairman for the Crocker estate, and as chairman of the exhibition committee he was ably assisted by such growers as H. Plath, T. Monro, T. W. Bagge, F. Cleis, C. Abraham and John Atkinson. There were a number of fine exhibits not for competition, notably a large and fine collection of decorative and cactus dahlias from Golden Gate Park. The cash prizes were awarded as follows:

First prize, both for decorative collection and cactus variety, to Crocker estate. Second prize, cactus variety, to F. Lude-mann, Pacific Nurseries. Third prize, cactus variety, and second prize for decorative dahlias to Wm. Kittlewell. First prize for best collection of single dahlias was awarded to R. Lichtenberg.

NEWS.

Chicago.

STOCK VERY SCARCE AND WHOLESALERS HUSTLE TO FILL REGULAR ORDERS.—PRICES TAKE A BRACE.—AVERAGE RETURNS MAKE UP FOR SHORT SUPPLIES.—SCARCITY GENERAL OVER WIDE AREA.—RESPECTED VETERAN FLORIST ENDS HIS LIFE—ILLNESS THE CAUSE.—CLUB MEETING.—WHOLESALERS FEAR TIEUP BY EXPRESS DRIVERS.—VARIOUS PERSONAL NOTES.

The week opened with the market bare of stock. It was an unexampled condition at the season, for the rush of orders showed that the shortage was general in the territory tributary to the Chicago market. Every wholesale house was inundated with letters and telegrams and the long distance telephone was frequently brought into use by those whose need was greatest. There was such a rush that few houses attempted to do anything at all on orders from infrequent buyers, the "regulars" taxing their facilities. Few indeed were the orders filled in full in the early part of the week. Of course the city trade required more or less stock, for trade is improving, and they had to hustle for their supplies. As a natural sequence prices advanced sharply in those houses where it is the practice to grade the stock closely, and grades deteriorated where it is the preference to adhere to printed rates at the expense of quality, for there are yet quantities of low grade roses. Carnations felt the changed conditions as much as roses and prices ranged from \$2 to \$3, and upward for fancy stock. The out of town buyers made some complaint at prices charged, but this was unjust, for nothing was shipped out which would not have brought just as much over the counter, and sometimes stock was billed out for less than the waiting city buyers offered, so careful are most of the houses to avoid anything which would look like "breaking it off" in a man, just because conditions this week afforded an excuse. With several days of sun the cuts are on the increase, but it will take pretty good quantities of stock to make the market more than a little easier. Chrysanthemums are coming along more rapidly now, pink and yellow being available, and the qualities are generally very good. Early this week \$3 a dozen was readily paid. Cosmos has also moved lively. Violets are not so good as at the same date last year. There is an accumulation of adiantum and some days smilax is so slow sale that it goes to waste.

The first meeting of the Florist's Club, after the summer recess, was held October 8. It was well attended and much good work was accomplished. There were several visitors present, among them A. T. Boddington, of Clucas & Boddington, New York; Wm. Murphy, of Cincinnati, and Isaac Kennedy, of Cleveland. The report of Treasurer Sanders was presented, showing a substantial balance. Ed. Enders, of the entertainment committee, presented his report showing a substantial amount in favor of the club. J. D. Thompson, of the J. D. Thompson Carnation Company, invited the members to visit his establishment on October 22, the train leaving Chicago at 8:35 a. m. This train will arrive at Joliet in time to visit the penitentiary, an incident of the trip for which Mr. Thompson has arranged. A reception committee for the forthcoming show week was appointed, consisting of Geo. Wienhoeber, Chas. Reardon, Frank Benthey, Walter Kreitling, John P. Risch and J. D. Thompson. The members of this committee will also act as guardians in the matter of exhibits. A committee of three, viz., Phil Hauswirth, Geo. Wienhoeber and John P. Risch, was appointed to act in conjunction with the Horticultural Society concerning the banquet to be given during flower show week. There were on exhibition carnations Enchantress and Governor Wolcott, from the J. D. Thompson Carnation Company; Lillian Pond, from S. J. Reuter, Westerly, R. I., and Murphy's White, from William Murphy, Cincinnati. There was also on exhibition an excellent vase of lily of the valley from Carl Jurgens, who, in conjunction with Isaac Kennedy and Frank Benthey, acted as judges. The judges in their report considered Enchantress the best carnation on exhibition, Lillian Pond the best of the whites, with Governor Wolcott a close second and Murphy's White promising for commercial purposes, while Jurgens' lily of the valley was highly commended. During the meeting Mr. Boddington invited the members to attend the coming New York show. Mr. Kennedy said he never saw carnations so good at this time of year as those exhibited at the meeting and he considered Enchantress especially fine. Mr. Murphy, of Cincinnati, invited all the members to attend their winter and spring exhibitions. Toward the close of the meeting J. D. Thompson said that he had brought his exhibit of Enchantress (a magnificent vase of 100 blooms) to the meeting with a double purpose. He first wished to let the florists see Enchantress, and next to present the blooms on exhibition to the dear and respected friend of all the members, Edgar Sanders, and this was done in due course.

The craft was shocked on Monday morning to hear that John P. Tomner had put an end to his life the previous morning. Mr. Tomner was 73 years of age and one of the oldest active florists in the country. He had followed the business for many years. He came to Chicago forty years ago and worked for some time for the West Park board. The laying out of Union Park was one of his principal works. In later years Mr. Tomner went into cut flower growing, his daughter selling his cut from a counter in one of the wholesale houses. Lately a retail store adjoining his home at 992 North Sixty-third avenue has taken all Mr. Tomner's energies, for he has been in failing health. He was well liked by all who knew him and the family have the sincere sympathy of all in the local market.

The wholesalers held a meeting Tuesday with their knees under the mahogany at the Bismarck. The impending strike of the drivers for the express companies was the principal topic of conversation over the viands. It was decided to ask the union for a special dispensation in the event of a strike, to keep things going, and E. E. Piesser, of Kennicott's, Leonard Kill, of Peter Reinberg's, and E. C. Amling were appointed a committee to present the matter to the union officials.

The trip of employes of Vaughan's Seed Store to Western Springs was postponed on account of wet weather. If the weather proves favorable, a large party will take advantage of the outing October 12.

P. J. Hauswirth put up the decoration for the Marquette Club's Chicago day banquet at the Auditorium. It is one of the largest banquets of the year but the outlay for flowers is modest.

Eli Hobbs has retired from active business, the concern being reorganized as the E. Hobbs Company, with George Wagner, long with the house, as manager.

Jno. Schoepfle & Company have their new establishment fitted up in grand shape and anticipate a rousing business throughout the season.

The Chicago house of the Pittsburg Plate Glass Company was burned out Tuesday evening. The loss was almost total.

If President Roosevelt had been here the past week, as planned, it is hard to tell what would have been done for flowers.

Edgar Sanders celebrated his seventy-fifth birthday anniversary October 10. His health is improving day by day.

C. E. Young, who has been manager at Fleischman's, has returned to New York. E. Warendorff is now in charge.

The S. Wilkes Manufacturing Company expects to get into its new and greatly enlarged plant early next spring.

C. L. Washburn is just getting out from a three week's illness. He had a narrow escape from typhoid fever.

Miss N. M. Sisler, of Hunt's, is back at her desk this week after an enjoyable trip to Colorado.

John Muir is just getting about after a two months' illness. He still limps with rheumatism.

George C. Hartung has opened, at 1629 Barry avenue, a nice establishment in the retail way.

Charles Strombach, head gardener at Lincoln Park, is very ill with pneumonia. Mrs. E. F. Winterson is convalescing rapidly, though still very weak.

Orders have come from as far as Portland, Oregon, this week.

A. L. Vaughan is at home from a trip west.

Visitors: John Bertermann, Indianapolis; Isaac Kennedy and L. F. Darnell, Cleveland; W. A. Hartman, South Haven, Mich.; R. F. Tesson, St. Louis.

PEORIA, ILL.—James C. Murray has remodeled and redecorated his store and has things in fine shape for a big fall business.

FALL RIVER, MASS.—M. Conroy has opened a new and well-appointed store at 101 South Main street, opposite the Academy of Music.

SPRINGFIELD, MASS.—At the next meeting of the Amateur Horticultural Society, November 7, Abel F. Stevens, of Wellesley, will lecture on chrysanthemums.

New York.

ACTIVE BUSINESS CLEANS UP THE MARKET AND GIVES WHOLESALERS DISTRICT A BETTER TONE.—STOCK NOT MUCH IMPROVED.—CARNATIONS SHOW BEST QUALITY.—CHRYSANTHEMUMS FARING WELL.—VIOLETS IN BETTER STATE.—CLUB MEETS MONDAY.

A more satisfactory tone pervades the cut flower business this week, the activity of the past ten days having been quite marked. Several out-of-town events of considerable magnitude have contributed thereto, as they called for large shipments of stock. All that is lacking in present conditions is the stability that comes later in the season and which, of course, cannot be reasonably expected as yet. Roses are very generally mildewed, Bridesmaid and Bride being, as usual, the chief sufferers. American Beauty has been in very heavy supply but with these as with all varieties of roses the cut has suddenly diminished, a result consequent upon the warm weather of last week, which drove everything into bloom and finished up the crop generally. Carnations alone respond promptly to the bright days of this week and show an improvement in quality every day. Orchids, particularly the white ones, have been in good demand and cattleyas have managed to climb back into the 50-cent seats. From \$5 to \$6 per dozen has been quoted for a few very fine yellow and white chrysanthemums. These prices are exceptional, however, the medium and lower grade stock going as low as \$6 per hundred. The supply is increasing to fair proportions. Violets are gradually coming into better form. Report has it, however, that the warm weather last week affected the stock of a number of growers adversely and it will take some time for the plants to recuperate. The quantity coming in is heavy for so early a date and is keeping values down accordingly. The Rhinebeck violets are ahead of the Poughkeepsie crops by about three weeks. Lily of the valley is plentiful at present but a good demand is keeping it fairly well cleaned up, at normal prices. Some very large dahlias are seen about, and such have been sold at \$3 a hundred. The smaller blooms do not figure for anything worth quoting. All green material such as smilax, asparagus and ferns is selling better than for some time past, yet there is still room for improvement.

The club meeting of next Monday evening, October 13, being the last regular meeting before the date set for the Madison Square Garden Exhibition, ought to bring out a big representation of the club's members, and there is sure to be much of interest transpiring. The meetings are now held at Civic Hall, 128 East Twenty-eighth street.

Visitors: Messrs. Asher, Pascal, Tremper and Coombs, of the Rhinebeck violet growing fraternity; Mr. Clarke, Portland, Ore.; Walter Mott, Jamestown, N. V.; J. A. Pettigrew, Boston.

CARTHAGE, MO.—Stephen Hyde & Son are embarking in business here, building one greenhouse.

OTTAWA, ILL.—F. J. King has begun the rebuilding of his home, destroyed by fire September 22. His loss was fully insured.

LENOX, MASS.—The judges selected to serve at the annual exhibition of the Horticultural Society are A. Herrington and Wm. Duckham, of Madison, N. J., and W. Anderson, of South Lancaster Mass.

Detroit.

QUARTETTE VISITS GROWERS AT THE FURNITURE CITY.—GREAT RANGES OF GLASS AND MUCH GOOD STOCK IN EVIDENCE.—TRADE EXCELLENT AND STOCK SHORT OF THE DEMAND.—CLUB HOLDS ROUTINE SESSION.—BOWLING TO BEGIN.—NOTES WITH THE GROWERS AND OTHERS.

On Sunday, September 28, a party of Detroit florists consisting of Philip Breitmeyer, Wm. Dilger, Thomas Browne and J. F. Sullivan made a flying trip to Grand Rapids. We were met at the depot by G. F. Crabb, Henry Smith, Chas. Chadwick and A. Hannah, who escorted us to the Eagle Hotel for dinner, after which the establishments of the above named florists were visited. At Henry Smith's place of twenty-one houses, using 100,000 square feet of glass, were seen four houses of carnations, 26x270 feet, nicely established and giving promise of a big cut during the season. One house of Meteor roses was especially fine and called forth many expressions of admiration from the visitors. One house of violets, two of chrysanthemums and one of adiantum showed evidence of skillful care on the part of the growers in charge. Mr. Smith has material on the ground to build one or two more houses this fall for a fine lot of carnations yet in the field. At A. Hannah's place, where 60,000 feet of glass is devoted chiefly to cut flowers for his city store, extensive improvements are in progress, several of the houses being entirely rebuilt with Garland iron gutters, with division walls and table supports of concrete. Chas. Chadwick's place of over 120,000 feet of glass is devoted mostly to carnations, there being about 75,000 already planted and appearing healthy and vigorous. Eli Cross was visited and his place, devoted exclusively to violets, was found in the most perfect order. He has recently put in new boilers and built a new chimney and added to the capacity of his workroom and boilerroom. His six houses of violets give every indication of big results the coming season. Crabb & Hunter's, the well known home of Irene carnation, was found very interesting. Their chrysanthemums have been carefully grown and are uniformly good throughout. Much of their glass area is devoted to carnations, all doing well, while their roses are good and their one house of Beauties are especially fine.

The past ten days have been marked by a goodly number of decorations by the florists, some of them quite extensive. B. Schroeter had the work for the opening of the largest dry goods store in the city. J. Breitmeyer's Sons had the decoration of the new County building on the occasion of its formal opening. J. F. Sullivan had the banquet decorations at the Masonic Temple for the carriage manufacturers' convention. The scarcity of flowers, which at present seems quite general, is being deeply felt by the local florists, whose trade is extraordinarily active for this season of the year. The heavy rains have ruined the late crop of asters and other outdoor flowers, thus throwing the burden on roses alone, the supply of which has been, however, fairly plentiful and far in excess of that of carnations. Chrysanthemums are beginning to make their appearance in small numbers and are hailed with delight by both dealers and the public.

The last meeting of the club, October 1, brought out a large attendance, but only miscellaneous business was transacted. Definite bowling arrangements were consummated and active and regular prac-

tice will begin at once in preparation for the big event at Milwaukee next year. At the next meeting, October 15, S. Alexander, the park botanist, will give a lecture on the "Botanical Classification of Plants and Flowers." Mr. Alexander gave an instructive and interesting talk at Palmer Park last Friday to the teachers and students of botany from all the high schools of the city on "Forest Trees and How to Distinguish Them."

Gus. Knoch, at Woodmere, has acquired another acre of ground immediately adjoining his greenhouse property, which he will devote to perennial shrubbery and other field plants. He is putting in a new thirty-five horse-power steam boiler and building a workshed 24x50 feet and one house 9x90 feet for bedding plants.

Mrs. Wm. Dilger, of the Michigan Cut Flower Exchange, was apprised Wednesday morning of the sudden death of her father in Kentucky. She left for there in the afternoon of the same day.

J. F. Sullivan was the only Detroit florist making exhibits at the recent State Fair at Pontiac, taking first prizes on all the entries of cut roses and floral arrangements.

Avery Rackham and Hugo Schroeter have both returned from the east where they went some time ago to acquire additional experience in their line of work.

John Carey, of Mt. Clemens, is putting in a new boiler and building a brick coal shed 28x40 feet. J. F. S.

Boston.

MARKET SHOWS HEALTHY TONE.—GOOD OUT OF TOWN DEMAND BUT ONLY BEST GRADES WANTED.—STOCK RATHER SCARCE.—FRUIT AND VEGETABLE SHOW ALSO BRINGS OUT A FINE DISPLAY OF DAHLIAS.

The cut flower market is in a generally healthy condition. Shipping demands are increasing and are fully up to the average for this date. The main difficulty is that they call for a better grade of stock, as a rule, than the market affords and this trouble seems to be on the increase every year, as the out-of-town buyer grows more and more critical. There is an abundance of American Beauty roses and a fairly good demand is experienced for this and the Queen of Edgely. Other roses are rather scarce, that is, the better grades. Carnations begin to make more of an impression but with the exception of the Lillian Pond and a few of the other extraordinary varieties the quality is not yet very good. The first blooms from indoor crops are beginning to come in, but with stems short as yet. Chrysanthemums are not sufficiently abundant to interfere with the sale of carnations, which maintain a price which is hardly commensurate with their quality. In chrysanthemums the only colors yet available are white and pink, but yellow may be looked for any day now, with the fine bright weather prevailing. Violets, in single and double sorts, are received only in limited quantity thus far. The double ones are very small and inferior. As to values generally the quality of stock in market and the irregularity of the demand does not warrant any advance in prices at the present time.

On the occasion of the fruit and vegetable show last Friday and Saturday, at Horticultural Hall, the display of dahlias was extremely brilliant. H. F. Burt, W. P. Lothrop, C. L. Hovey and Mrs. E. M. Gill were the principal contributors. Blue Hill Nurseries staged another of

their interesting collections of hardy herbaceous flowers, also a plant of a new variegated grass which should prove valuable for basket work, *Arrkenaterium bulbosum variegatum*. It received no notice from the committee. R. & J. Farquhar & Company showed a stand of fine gladioli, also of varieties of *Lilium lanceifolium rubrum*. A freak single dahlia from Messrs. Farquhar named "Collarette variety President Viger," so called because of an inner circle of small white ray petals, was awarded a certificate of merit, an honor far beyond its deserts. J. E. Rothwell showed a beautiful plant of *Cypripedium Sanderianum* and a new hybrid, *Laelia Owenianum* (*L. Dayana* × *Xanthina*) neither of which was recognized. A silver medal was awarded to Mrs. L. H. Ames, W. N. Craig, gardener, for one of the finest displays of Muscat grapes ever seen here. Premiums to the amount of \$300 were distributed for apples and pears, the same good old kinds our fathers ate.

A branch of the Woman's Auxiliary of the American Park and Outdoor Art Association was organized in Boston on October 6.

Mrs. Lucius H. Foster died at her home in Dorchester on October 2.

Visitors: A. B. Cartledge and J. L. Pennock, Philadelphia.

Philadelphia.

LIVELY BUSINESS WITH SHORT SUPPLIES.—RETAILERS OBLIGED TO HUSTLE FOR SUPPLIES.—PRICES ADVANCE.—CLUB HOLDS INTERESTING SESSION.—PAPERS BY WELL KNOWN MEN.—EUROPEAN MATTERS TREATED.

Business has been lively the past week. Weddings and funerals have been the principal events and they have used up a lot of flowers. Everything is scarce, roses particularly being very hard to get, the stock being doled out in small lots so as to try and make them go around. Orders ahead are all right, but one has to be on the spot if he wants to make sure, as the way the buyers swarm around the boxes as they come in at this early day puts one in mind of Thanksgiving time. New York is even telegraphing here for Beauties, but there are none to spare. Prices are advancing. Special Beauties are now \$3 per dozen, but the stock, what little there is of it, is fine. A good selling size goes for \$2 to \$2.50. Teas are improving. Bridesmaids have been very poor but will soon be in good shape. The frost holds off and there is still a fine lot of dahlias; \$1 to \$4 is the price. The chrysanthemums are here in several varieties. Nice flowers of Mme. Bergmann sell for \$1.50 per dozen, with *Glory of Pacific* at \$2, *Montmort* and *Merry Monarch* \$1.50 to \$2. *Cosmos* is in and sells for from 50 cents to 75 cents per hundred. Carnations are selling well at \$1.50 and \$2. Cattleyas are plentiful at 50 cents straight. Violets, doubles, 50 cents; singles, 25 cents to 35 cents per hundred. Lily of the valley is plentiful at \$3 and \$4.

The October meeting of the club was well attended and everyone was in the best of humor. I am pleased to say that John Westcott was elected president, which is an honor due one who has taken so much interest in the club since its inception. David Rust succeeded to the vice-presidency and the other officers were re-elected unanimously. S. S. Pennock read an able paper on the Asheville convention and touched on other topics of business interest. H. F. Michell read an interesting account of his recent

European trip, describing many of the places that he had visited. Both papers were much appreciated and the essayists were voted the thanks of the club. Fred Ehret also briefly told of his trip and especially mentioned the fact that there are no cut flower commission men in the European cities that he had visited, as the growers generally sell their flowers on the street corners or in the markets. The paper for the next meeting relates to the increasing use of hardy plants and the importance of the same to the florists' trade. Samuel C. Moon will be the essayist.

John Shellem has taken the small store on Eighteenth street, below Chestnut, and will run it as a branch to his establishment at Seventeenth and Tasker streets. K.

St. Paul.

GROWERS HAVE GOOD PROSPECTS FOR WINTER.—STOCK NOW SCARCE AND BUSINESS ACTIVE.—FLOWER SHOW POSTPONED.—NOTES OF DOINGS OF PRODUCERS.

R. C. Seeger has a range of seven houses containing about 27,000 square feet of glass devoted principally to roses and carnations, with one small house of violets. Mr. Seeger was one of the first in this section to grow Liberty and now has two or three large benches planted to it. While he has had fairly good success with it he says it has not been as profitable as Meteor. He has a few hundred plants of Baldwin which are nice and thrifty, the blooms of good form and substance and a beautiful shade of dark pink. Mme. Testout, Pres. Carnot and Kaiserin are grown for summer, producing fine crops from June till December. Carnations are planted this year more extensively than heretofore and are looking very fine. Varieties grown are White Cloud, Flora Hill and Norway in white, Crane and Jubilee in red, Daybreak, Lawson, Joost and Marquis for pink. A few Prosperity complete the list. The most promising sort is Lawson.

Fall trade is increasing in volume daily, the only drawback being the scarcity of good stock. I have never seen stock so short in quantity and so uniformly poor in quality as it was last week, but a few days of bright weather have improved the quality as well as the quantity and stock is now more plentiful. Beauties are in good demand, some of the best retailing as high as \$8 per dozen. A few violets have made their appearance and sell readily. Princess of Wales appears to be the earliest in this section. Chrysanthemums are coming very slowly, Fitzwygram being the only one cut so far.

Keiper & Powles have about 6,000 feet of glass devoted mostly to growing plants for the trade. They grow large quantities of asters for summer and now have a house of single-stemmed asters for fall business. One house is devoted to sweet peas during the winter months. For their spring trade geraniums are their leading specialty and are grown in immense quantities, a great many hot-bed sash being used.

L. L. May & Company are handling the new carnation, *Euchantest*. It is a valuable addition to our list of good varieties. Harry Fenn is a good crimson of the Roosevelt type. Mrs. Patten is a nice, bold flower, variegated with lighter pencillings than the Bradt, borne on a stiff stem. It looks like a good one.

The chrysanthemum show under the auspices of the Ladies' Auxiliary of the Manufacturers' Association has been

postponed to November 10 to 12. Even at that late date chrysanthemums will hardly be at their best.

C. F. Haupt has a compactly built range of about 6,000 feet of glass where he grows a general line of stock, his specialty being violets. Chrysanthemums, roses and carnations are also grown successfully.

Carl Peterson has two nice houses 18x100 devoted principally to carnations, which are fine. He expects to do a big business in geraniums and other bedding stock, having laid in a good supply of cuttings.

The coal question is uppermost in the minds of florists and others who depend upon it to produce their goods. Soft coal is becoming scarce as well as hard. It sells now at \$5 per ton in carload lots. FELIX.

Scranton, Pa.

CITY OF STRIKES A POOR PLACE FOR BUSINESS THE PAST YEAR.—COAL SUPPLY ALMOST EXHAUSTED.—GROWERS HAVE GOOD STOCK FOR FALL.—PERSONAL NOTES.

Scranton may well be termed the city of strikes. We had not fully recovered from the unsuccessful carpenters' strike until the employes of the Scranton Traction Company went out. We endured months of warfare before their trouble was adjusted, only to be followed by the great strike of the miners of the anthracite coal fields, which has been on more than four months. It is not safe for a man to be seen on the street with a dinner pail; he is liable to be set upon, so hard is the feeling against the non-union workers. There is no coal to be had at any price and unless the strike is settled soon most of the large mills will have to suspend operations. As long as they could get soft coal they got along very nicely but the only fuel at present is culm, and very few places are equipped for burning that, it requiring a blower and one man's whole attention to run a fire, making it very expensive, especially for the florists, who, with good coal, can do the firing with very little trouble and time.

Owing to the strike there is great depression in all business in this vicinity. The growers in Scranton report a promise of a fine stock of chrysanthemums and carnations for the fall and winter. McClintock has five as fine houses of carnations as can be found in this section of the country. He is an advocate of early planting and is growing all of the latest varieties. He has also four houses of chrysanthemums which are very promising. During the summer he erected two houses 12x80 and one propagating house 10x160. His roses are making a fine growth.

Anton Schultheis, who bought the R. W. Palmer place, has remodeled all the houses and changed the hot-water system for steam heat. He grows roses and carnations. Mr. Schultheis is a hustler and does not propose to be behind the other Scranton florists.

Johnathan Rodham has leased a tract of land next to McClintock's nursery and erected two houses 21x120 for growing carnations for the wholesale market. He has put in one sixty horse-power boiler for heating.

Morel Brothers have erected several iron-frame houses for roses and carnations. They have put in two sixty horse-power boilers to furnish steam.

Thos. Arner is doing a nice business and his general stock is looking fine.

Elias Anthony has enlarged the list of Scranton florists by erecting two houses 12x60 for bedding plants and cut flowers.

J. H. McConnell and wife have returned from a visit to Newark, N. J.

G. R. Clark has returned from a business trip to New York city.

W. S. Mott reports trade fair during the summer months.

Marvin & Muir have two fine houses of Boston ferns.

W. H. Davis is cutting some fine roses. MAC.

Denver.

TRADE ACTIVE AND STOCK INADEQUATE TO MEET DEMANDS.—NEWER ROSES TAKE WELL.—CHRYSANTHEMUMS ARE LATE.—BOWLING.

The supply of stock falls far short of the demand. Trade has been very active the past two weeks in all lines. White stock in particular, is scarce, so design work gives quite a trouble. Beauties have fallen off in supply, both at home and those shipped in, but the demand for them rather increases. Violets are in regular supply but only in limited quantities as yet. They are quite good for the season. A few good Liberties are seen occasionally, which go very quickly, and the variety gives promise of being just as popular as last season. Chatenay, of which a few were grown here last year, are planted more heavily this season and will, I think, prove very popular. It is not yet at its best but takes very well and will be used much in table work. A few selected Brides and Bridesmaids come in that go at good prices, while poorer stock is eagerly sought after for funeral work. The first chrysanthemums will be in about the end of the week, Bergmann and Glory of Pacific being the first. They will fill a big gap. Carnations are coming on slowly and only a few good ones are to be seen.

Six of the craft got together last Tuesday to organize the bowling club, something we start every year but it does not hold. However, there is a chance this year, as Milwaukee looks close and it would not be a bad walk over there. So we may land six for a team next year.

The first pot chrysanthemums were put on sale this week but are yet only well in bud. There are a lot of them to be sold but I trust they will do as well as in other years. B.

Buffalo.

STOCK SCARCE AND TRADE FAIRLY ACTIVE.—GOOD CHRYSANTHEMUMS NOW AVAILABLE.—WEDDING DECORATIONS.

Dark and rainy weather cuts down supplies. Roses are about all that can be depended on, and they are scarce. Violets have not improved as yet and carnations are scarce. Some good chrysanthemums have been sent in by S. B. Smiley, Lancaster. Several weddings this week called forth a lot of flowers. The Mooney wedding was the largest and the work was divided. R. W. Rebstock decorated the house and Miss Donovan the church. S. A. Anderson made the bouquets and they were very fine. Several receptions last week called for a good lot of flowers, of which J. H. Rebstock and Palmer supplied the most.

It is a mistake to put up store decorations at too low a price. The stock is liable to a good deal of injury.

Anderson's new wagon is certainly the finest flower wagon in the city.

The changes in J. H. Rebstock's store give it a much brighter look. BISON.

Minneapolis.

STOCK SHORTENS UP AND DEMAND EXCEEDS SUPPLY.—QUALITIES DETERIORATE BUT PRICES ADVANCE.—VARIOUS NOTES.

Last week's shortage of stock of all varieties caused a decided demand and it seemed barely possible to fill orders. Tea roses advanced to \$4 and \$6 per hundred, carnations to \$2.50 and \$3 per hundred and American Beauties to from 75 cents to \$3 per dozen. In fact, anything in the shape of a flower sold at a good price. The growers have not yet got down to steady firing and, with dark days and cold nights, the stock received a severe check. One grower cutting from 1,000 to 1,200 carnations daily was reduced to 200.

It is a pleasure to hear E. Nagel relate his early experience in the flower business in Minneapolis, when he was foreman at R. J. Mendenhall's. Flowers were hard to secure then and the best of prices prevailed. Some of the decorations in which he was overseer ran all the way from \$600 to \$2,500 and the difficulties encountered are comical to hear.

Paul Berkowitz, of Philadelphia, and E. Ford, of New York, were recent callers.

A. Swanson is cutting chrysanthemums of good quality. C. F. R.

Springfield, Mass.

CHRYSANTHEMUMS EARLY.—TRADE FAIR.—GREENHOUSES ALL IN GOOD SHAPE.—OWNERS WATCHING EXPERIMENT AT HEATING WITH OIL.

The first chrysanthemums of the season were brought in by L. Morgan, of Longmeadow, October 4, this being earlier than usual for Glory of Pacific and Polly Rose, which is a white sport from Pacific. They were of good quality and are selling fairly well. Carnations are more plentiful and roses improving in quality, there being a steady demand for same. A few small weddings and hall decorations, with an occasional funeral design, help to keep the store men busy. As for the greenhouses, all stock looks in fine condition. Crops are coming along nicely but all are wondering what is going to be done to keep from freezing, as coal is out of the question. Selatter & Son are putting in a burner and are going to try kerosene. All are watching the results, which it is to be hoped will be a success. A. B.

Worcester, Mass.

FALL BUSINESS SHOWS UP EARLY.—PLENTY OF GOOD STOCK IN MARKET.—NEW FLOWER STORE.

Business has started in an encouraging manner and with plenty of good stock in the market trade has been very good. Chrysanthemums are now arriving in reliable quantity and, for early varieties, are very fine. There has been a heavy call for violets and the Princess of Wales is the popular variety now, extra good for this time of the year. Roses are improving every day and show the effect of steady firing. The fall weddings are very numerous and several fine decorations have been turned out, and more coming in the immediate future.

Chas. D. Machie, formerly in charge of the cut flower department of the Boston Store, has opened a flower store on Main street. A. H. L.

ORANGE, N. J.—The Floricultural Society opened the season with a smoker at Elks' Hall Wednesday evening. It was an enjoyable affair, as usual when anything is done in Orange.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
Subscriptions accepted only from those in the trade.

Advertisements on all except cover pages, 10 Cents a Line, Agate; \$1.00 per inch. Cash with C. order.

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Cover space sold only on yearly contract at \$1.00 per inch, net, in the case of the two front pages, regular discounts applying only to the back pages.

The Advertising Department of the AMERICAN FLORIST is for florists, seedsmen and nurserymen and dealers in wares pertaining to those lines only. Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday. Address

AMERICAN FLORIST CO., Chicago.

ALAS, poor jadoo.

THE inconveniences of the coal strike will not be in vain if a practical method of burning crude petroleum be the outcome.

IMPORTATIONS are arriving and once again Azalea Mme. Van der Cruyssen is procurable only in limited quantity in assortments.

THE corn crop is out of danger, the wheat crop is garnered and a big hay crop under cover; this spells prosperity in the west and prosperity in the west means "easy" money in the east this winter.

THE marriage statistics show that throughout the country there is a considerable decrease in the number of young couples who might be expected to go to housekeeping this fall, and the theorists allege the high price of coal as the cause. However, florists all over the country find wedding work plentiful, doubtless for the reason that the class of people who need flowers in decorations still have a little surplus after paying the coal bill. It isn't the poor man who is the average florist's best patron.

Largest Prize at Chicago.

The Foley Mfg. Co., of Chicago, manufacturers of greenhouse material, offer the following prizes to be added to the regular schedule at the Chicago show:

- For best chrysanthemum plant.....\$25
- For best vase American Beauty roses 25
- For best vase of carnations..... 25

This makes it possible for one chrysanthemum plant to win \$55; for fifty American Beauty roses to win \$65 and for 100 carnations to win \$45. We believe this to be the largest prize money ever offered for carnations.

Draft for Soft Coal.

ED. AM. FLORIST:—Having been forced to the use of soft coal, we are confronted with the problem of short stacks. We enclose rough diagram showing length of flues and stacks. Can we get any results at all with the stacks as they are and do you think there is any advantage in having the flues run the entire length of the house? Would we gain anything by mixing anthracite and bituminous?

T. N. Y.

I have never attempted to use soft coal in a flue and doubt if it could be burned without danger of injury to the plants from gas escaping into the houses. From the drawings I judge that hot water or

steam are now used for heating the houses, and the reason for putting in a flue running for seventy-five feet through the house is to improve the draft by lengthening the smoke stack. Running it horizontally as proposed will result in lessening the draft when the fire is first started. I have used soft coal in a hot water heater with good results when the chimney was only twenty feet high above where the smoke pipe entered. The mixing of anthracite and bituminous would improve the results. L. R. TAFT.

Answered By Good People.

ED. AM. FLORIST:—We are pleased to state that we have secured some excellent help through the use of a "want adv." in your valuable paper.

LAKEVIEW ROSE GARDENS.

Janestown, N. Y.

Greenhouse Building.

Baldwinsville, Mass.—Joseph Chambers, cucumber house 20x140. M. Paine & Son, cucumber house 20x134.

Waltham, Mass.—Anderson & Williams, house 30x250.

Oakdale, Md.—Edw. Warfield, two houses.

Elkhart, Ind.—C. G. Conn, carnation house.

Chester, Pa.—Herbert Shaw, one house. Jersey City, N. J.—Peter Henderson & Company, range of storage houses.

Sharon, Mass.—Mrs. J. Snow, carnation house.

Yucca Filamentosa.

ED. AM. FLORIST:—What distance apart should Yucca filamentosa be planted? What is the spread of the plants when fully grown? What kind of soil should they have? Do they require heavy manuring? C.

The plant is a native of the southwestern United States and Mexico. It is well adapted for dry and sandy soils and requires a well drained area, but is tolerant of a large range of soil. Not much manure is required. The plants should be set at least two and one-half feet apart. W. A. PETERSON.

Bougainvillea Sanderiana.

ED. AM. FLORIST:—Will you please through your columns give the mode of procedure in flowering Bougainvillea Sanderiana during the coming spring months? The plants were planted out in June, as recommended by a correspondent, and lifted in September and now occupy 10-inch and 12-inch pots. They are vigorous and extremely luxuriant, and will shortly be well established in their pots. CAREFUL READER.

After potting Bougainvillea Sanderiana, plants that have been lifted from the open ground should be placed in a greenhouse lightly shaded, at a moderate growing temperature for about ten days or so, spraying them over the top daily, until they have recovered from the effects of the lifting. After this has been accomplished reduce the temperature to a sufficient degree to prevent the plants from making new growth. Clean off all shading, expose the plants to the full light, and always keep them on the dry order throughout the winter, when the plants will have well ripened and fully budded up. About six or seven weeks before Easter move the plants from their dormant position, into the forcing house, give them plenty of water and expose

them to the full light. If these directions are carefully followed, there should be no trouble whatever in blooming these plants in profusion. WM. K. HARRIS.

Over There In Kansas.

Papers had a lot to say
Sneerin' like, o' Kansas;
Welt it to 'em every day,
Chuckin' fun at Kansas.
Air just full o' slander darts
From the busy Eastern marts—
'Nuff to break the people's hearts
Over there in Kansas.

Say that's where cyclones are born,
On the plains o' Kansas;
Every word a word o' scorn
Fur the folks in Kansas.
Hoppers darkeenin' the sun—
Dozens of 'em weigh a ton—
Seem to think it's lots o' fun
Cra-kin' jokes at Kansas

Now it's come their time to laugh,
Them air folks in Kansas,
Givin' Easterners the gaff
'Bout affairs in Kansas.
Fields a-bulgin' out with wheat,
Corn for all the world to eat,
Other crops that can't be beat,
Over there in Kansas.

Trains a-haulin out the stuff
From the plains o' Kansas;
Railroads can't get cars enough
Fur to empty Kansas.
Ort to see the farmers grin,
Stroke the lilacs on their chin
As the cash comes rollin' in,
Over there in Kansas.

Women singin' songs o' glee
'Bout ol' fruitful Kansas;
Babies crowin' merrily
Everywhere in Kansas.
Party gals a-buym' clo'es,
Toggin' out from head to toes;
Style? You bet your life she goes
Over there in Kansas.

When the cares o' day are done
On the plains o' Kansas,
And the kids begin to yawn—
Sleepy kids in Kansas—
Farmer wipes his glasses blurred,
Reads a chapter o' the Word,
Then kneels down and thanks the Lord
That he lives in Kansas.
—Denver Post.

Grubs and Club Root.

ED. AM. FLORIST:—What can be done to a house of roses when the soil is infested with grub worms? There seems to be a large grub under each plant, two under some, and they are cutting the roots off, finally killing the plant. This is the first time I have experienced anything of the kind and I do not know what to do, for it seems likely the grubs are breeding right in the soil on the benches, as we find many only about half grown. We sometimes see the grubs in the soil when filling the benches and always pick them out, but some of course always got in, although they never before did any harm. What can be done? What is the cause of club root and how does one get rid of it? J. B. J.

The trouble is usually in collecting the soil from the neighborhood of where trees are growing. The grub that destroys the roses in the way the correspondent describes is the larva of the June bug, as commonly called. When once taken into the house it is a very difficult matter to eradicate them except by killing them as they are working around the plants. There is no known remedy that I have ever found, or ever heard of, that will destroy them without injuring the plants. Probably a large portion of the worms that one finds in the houses are not the particular ones that destroy plants, as they may be the larvæ of the large horse fly. These, of course, are brought in through the manure and, as a rule, do not do very much damage to the roots of the roses; at the same time they are not desirable. JOHN N. MAY.

Indianapolis.

STATE SOCIETY HOLDS A PROTRACTED SESSION.—MANY MATTERS OCCUPY ATTENTION.—COMMITTEES APPOINTED.—PERSONAL AND TRADE NOTES.

The meeting of the State Florists' Association, October 7, was well attended. With President Haugh in the chair, the meeting disposed of the routine business and then took up the flower selling of the state prison gardener. Messrs. Stanley, Langstal and Alley were appointed a committee to see the proper officers in order to have it stopped. John Hartje, H. W. Rieman and Frank Alley were appointed to prepare a calendar of important events, concerning our association, which is to be printed as a supplement to the by-laws. Hartje, Baur and Irvin Bertermann were named by the chair to arrange for a small and free flower show to be held in the State House in November. Premiums in cash and certificates will be awarded. The date of the exhibit will be announced later. Irvin Bertermann related some of his Asheville experiences in a humorous and interesting manner. Having been the only Indianapolis florist who attended the convention, he enjoyed an interested audience and a vote of thanks was tendered him. The association also voted \$25 as a contribution to the \$150,000 fund required to secure an army post and a technical institute for this city. Most of the members have also individually contributed for the same purpose. Although the meeting adjourned at an unusually late hour, it was not too late for the more enthusiastic members to enjoy a little social gathering.

Robert McKeand seems to like his new home and position in Marion so well that he neglects his Indianapolis friends. Fully two meetings have passed without his being present and that means much for faithful "Mac."

Miss Minnie Hack, who on September 17 was married to Mr. J. Gruenwald, is now at home in Maywood. Among her numerous presents was a beautiful rocking chair, given to her by her florist friends.

John Bertermann has returned from Chicago, where he made his usual fall purchases for the season.

Baur & Smith are cutting carnations of fine quality in their new house.

H. J.

Catalogues Received.

Gustav & J. W. Ludwig, Allegheny, Pa., floral designs; Conard & Jones Co., West Grove, Pa., bulbs; H. H. Groff, Simcoe, Ontario, Can., gladioli; Souper & Notting, Luxembourg, Europe, roses; E. H. Hunt, Chicago, florists' supplies; Herendeen Manufacturing Company, Geneva, N. Y., boilers; William Bull & Sons, Chelsea, London, bulbs; Frank S. Platt Co., New Haven, Conn., bulbs; Henry F. Michell, Philadelphia, Pa., wholesale list of bulbs; Fred'k W. Kelsey, New York city, trees, shrubs, roses, herbaceous plants, bulbs, etc.; Bolbink & Atkins, Rutherford, N. J., bulbs; D. Guiheneuf, Paris, France, wholesale list of bulbs and plants; Peter Henderson & Co., New York, bulbs; Gurney Heater Mfg. Co., Boston, Mass., boilers; Schlegel & Fottler Co., Boston, Mass., bulbs, etc.; R. & J. Farquhar & Co., Boston, Mass., bulbs; Wilhelm Pfitzer, Stuttgart, Germany, roses, etc.; Standard Blue Flame Oil-Gas Company, Chicago, oil-gas ranges, etc.; Thaddeus N. Yates & Co., Philadelphia, Pa., trees, shrubs, etc.; Lucas & Boddington Company, New

York City, wholesale list of bulbs and plants; Phoenix Nursery Co., Bloomington, Ill., trees, plants, bulbs, etc.; Chas. Hawkinson, Chown, Minn., trees; T. S. Hubbard Co., Fredonia, N. V., grape vines, etc.; James M. Lamb, Fayetteville, N. C., miscellaneous plants; John G. Herrick, North Weare, N. H., miscellaneous plants and bulbs; M. Rice & Co., Philadelphia, Pa., Porto Rican mats; F. James, Ussy, France, trees and miscellaneous plants; Walter Mott Seed & Bulb Company, Jamestown, N. Y., wholesale list of bulbs; T. W. Wood & Sons, Richmond, Va., seeds and bulbs; Mrs. H. Kehler, Wilmington, N. C., plants and trees; R. D. Herr, Refton P. O., Pa., begonias; H. G. Corney, Red Bank, N. J., strawberry plants and fruit trees; W. W. Thomas, Anna, Union Co., Ill., wholesale list of strawberry plants; Pinchurst Nurseries, Pinchurst, N. C., nursery stock; Samuel Dobie & Son, Heathfield Gardens, Chester, Eng., bulbs and seeds; Vilmorin-Andrieux & Co., Paris, France, bulbs and seeds; H. H. Berger & Co., New York City, bulbs; California Rose Co., Los Angeles, Cal., wholesale list of roses; Clovena Nurseries, New York, wholesale list of seeds, bulbs, etc.; Cedar Hill Nursery and Orchard Co., Winchester, Tenn., wholesale list of nursery stock; Laxton Bros., Bedford, Eng., strawberry plants; Dessert & Meulin, Chenonceaux (Indre-et-Loire), France, pæonias.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By a I rose grower to take charge of small place or would run section. Good references; single. Box 410, Jamestown, N. Y.

SITUATION WANTED—By all-around gardener and florist. First-class references furnished. Married, no family. Private place preferred. F. E. 190 28th St., Chicago.

SITUATION WANTED—By a carnation grower of 21 years' experience to take charge. Desire to make a change from present position by Nov. 1st. References. Address C. A. R. care American Florist.

SITUATION WANTED—By experienced gardener and florist; German, married; last four years with Mr. W. C. Egan, Egandale, Highland Park, Ills. State wages. Address P. W. Box 342, Highland Park, Ill.

SITUATION WANTED—By first-class gardener and florist, single, 27; thorough and competent, sober and industrious. 12 years' experience in all branches; first-class references furnished. Address No. 395. care American Florist.

SITUATION WANTED—On private place by gardener and florist; 30 years' experience. Like to get to warmer part of state. Can furnish best of references. At in culture of bothhouse grapes. Address J. B. Plattsburg, N. Y.

SITUATION WANTED—As head gardener on private place; single, age 35; 17 years' experience, such as growing fruits and plants under glass, care of shrubs, lawn and vegetable garden. First-class references. Address MATHEW ALEXANDER, 43 Custer street, Jamaica Plain, Boston, Mass.

SITUATION WANTED—To take charge of estate, private place or public institution, by competent, reliable, landscape gardener and florist; 22 years' practical experience; greenhouses, lawns, trees, shrubbery, vegetables, etc. No. 1 references. Permanent place, with fair wages, looked for. Address N. care American Florist.

WANTED—At once, a good rose grower. SOUTH PARK FLORAL Co., New Castle, Ind.

WANTED—At once, a good propagator and grafter of roses. SOUTH PARK FLORAL Co., New Castle, Ind.

WANTED—Competent, trustworthy man, to run 3,000 feet of glass. State experience and wages wanted with board. UNION CITY GREENHOUSES, UNION CITY, Pa.

WANTED—Sober and reliable man, to take care of 1,500 feet of glass, garden, lawn, and do some chores. Wages \$30 per month, board and room. Address J. P. Esch, Huron, Ohio.

WANTED—A young man with practical experience in general greenhouse and office work; must be sober and industrious and every way reliable. Give references. Address MICHIGAN, care American Florist.

WANTED—A florist to take charge of place of 6,000 feet of glass, to grow roses and bedding plants; \$30 per month with board and washing. Write with references and description to J. C. STEINBAUSER, Pittsburg, Kan.

WANTED—A good florist; must be sober, honest and good worker; one capable of taking charge of medium sized place, and grow roses, carnations, mums and general stock; \$30 per month and board. Also one assistant, \$20 per month and board. Address S. GIBBS, Woodville, Pa.

FOR SALE—Horizontal tubular boiler 48x15 with plug hat dome and with 39 3/4-in. flues, very suitable for heating hot houses. Apply to WISCONSIN BOX Co., Wausau, Wis.

FOR SALE—An old established greenhouse business; entire plant rebuilt; steam heat. With all the ground or part; also with or without residence. Situated in Cleveland, O. A bargain. Address O. K. care American Florist.

WANTED

Bright, energetic man as manager for an Eastern seed house. Must be conversant with catalogue work.

SEEDS, care American Florist.

FOR SALE.

One-half interest in a well established bulb and lily growing business. Stock consisting of about \$8,500 worth of calla, narcissus and other bulbs, including land, etc. Would sell to Seventh Day observer for only \$3,000. The bulbs produce \$1,000 or so worth of flowers annually, besides the income from bulbs. Write for terms. COLOEN GATE BULB AND LILY FARM, 6660 Shaltuck Ave., OAKLAND, CAL.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

BARGAIN in NEW PIPE

In changing plans for greenhouses I find I have a surplus of wrought iron pipe which I will sell at the following prices:

1,500 FEET 1-INCH at 4¢ PER FOOT.
3,000 FEET 1 1/2-INCH at 6 1/2¢ PER FOOT.
300 FEET 1 3/4-INCH at 7 1/2¢ PER FOOT.
500 FEET 2-INCH at 10¢ PER FOOT.

Please note this is not second-hand pipe but new pipe tested to 400 lbs. water pressure and fitted with threads and couplings. At the above prices it will pay you to buy it even to use for supports. Will accept orders for all or any part of it. First come, first served. Address


SURPLUS, care American Florist.

If you want to get the want you want to get, you want to get your want ad into the

AMERICAN FLORIST

Try It now.

Every advertisement represents a genuine want. It pays to answer them.



YOU have been ordering Cut Flowers for the week and if you ordered from **DEAMUD** you got them.

Favorable weather has improved the stock and greatly reduced the prices. We are receiving daily the best

Valley, Violets, Beauties, Tea Roses, Carnations, Chrysanthemums.

J. B. Deamud,
51-53 Wabash Ave., Chicago.

Caldwell's Kwality Kounts Brand
Wild Smilax now on hand.

E. H. Hunt,
WHOLESALE.....
Cut Flowers
THE "OLD RELIABLE,"

76 Wabash Ave., CHICAGO.
Poehlmann Bros. Co.
Wholesale Growers of
and Dealers in **Cut Flowers**

All telegraph and telephone orders given prompt attention. 35-37
GREENHOUSES: Randolph Street, CHICAGO, ILL.
Morton Grove, Ill.

The F. R. WILLIAMS CO.
WHOLESALE FLORISTS,
Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.
Telephone Connections. CLEVELAND, OHIO.

Bassett & Washburn
76 & 78 Wabash Ave., CHICAGO.
Wholesale Dealers and Growers of **Cut Flowers**
GREENHOUSES: HINSDALE, ILL.

GALAX LEAVES



Ferns, Leucothoe Sprays.
The above furnished to foreign or U. S. trade, goods guaranteed. We solicit wholesale trade.

W. A. DAVIS & CO.,
LOCK BOX 13. MARION, N. C., U. S. A.

Wholesale Flower Markets

MILWAUKEE, Oct. 9.

Roses, Beauty, long, per doz.	2 00@3.00
" " med.	1.00@1.50
" " short	.50@ .75
" Liberty	6.00 @ 8.00
" Bride, Bridesmaid	4.00@ 8.00
" Meteor	4.00@ 8.00
" Golden Gate	4.00@ 8.00
" Perle	2.00@ 6.00
Carnations	1.50@ 3.00
Cosmos	.50
Adiantum	.75@ 1.00
Smilax	12.00@15.00
Asparagus	65.00
Common ferns	.25

PITTSBURG, Oct. 9.

Roses, Beauty, specials	21.00@25.00
" " extras	15.00@18.00
" " No. 1	8.00@10.00
" " No. 2	3.00@ 5.00
" Kaiserin	2.00@ 8.00
" Bride, Bridemaid	2.00@ 6.00
" Meteor	2.00@ 6.00
" Liberty	2.00@ 8.00
Carnations	1.00@ 2.00
Chrysanthemums	12.00@15.00
Dahlias	1.50@ 3.00
Lily of the valley	2.00@ 4.00
Violets	6.00@ .75
Smilax	6.00@15.00
Adiantum	.75@ 1.00
Asparagus	35.00@40.00
" Sprenger	2.00@ 3.00

CINCINNATI, Oct. 9.

Roses, Beauty	5.00@25.00
" " Bride	2.00@ 3.00
" " Bridesmaid	2.00@ 3.00
" " Meteor	2.00@ 3.00
" " LaFrance	3.00@ 4.00
" " Kaiserin	3.00
Carnations	.75@ 1.00
Lily of the valley	4.00@ 5.00
Asparagus	50.00
Smilax	12.00@15.00
Adiantum	1.00
Common ferns	.15

ST. LOUIS, Oct. 9.

Roses, Beauty, medium stem	10.00@20.00
" " Beauty, short stem	3.00@ 8.00
" " Bride, Bridemaid	2.00@ 4.00
" " Golden Gate, Carnot	2.00@ 5.00
" " Meteor	2.00@ 4.00
Carnations	1.00@ 2.00
Asters	.75@ 2.00
Tuberoses	5.00
Lily of the valley	4.00
Smilax	12.50@15.00
Asparagus Sprenger	1.50
" Plumosus	.75@ 1.00

The Cincinnati Cut Flower Co.,
437-439 Main St. CINCINNATI, O. **WHOLESALE FLORISTS.**
Consignments Solicited. Special Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.
Michigan Cut Flower Exchange.
Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around. **BRONZE GALAX, \$1.00 per thousand.**
26 Miami Ave., DETROIT, MICH.

H. G. BERNING
Wholesale Florist
1322 Pine St., ST. LOUIS, MO.

Frank M. Ellis,
WHOLESALE FLORIST,
1316 Pine Street, ST. LOUIS, MO.
CONSIGNMENTS SOLICITED.

C. A. KUEHN,
Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

Pittsburg Cut Flower Co. Ltd
WHOLESALE FLORISTS.
Pittsburg, Pa.
Please mention the American Florist when writing.

Holton & Hunkel Co.
Wholesale Florists,
467 Milwaukee St., MILWAUKEE, WIS.

FOR SOUTHERN WILD SMILAX
(Where Quality is First Consideration.)
Write, Wire or Phone the Introducing, Caldwell The Woodsman Co., Evergreen, Ala. or their agents: L. J. Kreshover, New York; J. B. Deamud, Chicago; H. Bayersdorfer & Co., Philadelphia; W. F. Kasting, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.

Galax AND Leucothoes.
Selected, Bright and Brilliant.
Wholesale Trade Solicited.....
J. L. BANNER & CO., Montezuma, N. C.

WANTED--Satisfied Customers.

WHEN a man needs satisfied customers for the success of his business, the most he can ask of the buyers is orders; he has, himself, to supply the satisfaction. Now, we have a great many satisfied customers, but we want more. Our business has increased each year since starting, in 1895, every year faster than the year before. We want to keep up the record.

We want to hear from new buyers, those who are not satisfied where they are. Send us an order in the regular course of business; everyday orders, that's what we want. If you're satisfied, come regularly. We protect our steady trade at all times. Send for our weekly price list.

E. C. AMLING,

32-36 Randolph St. L. Dis. Phones 1999 and 1977 Central. Chicago, Ill.

The Largest, Best Equipped and Most Centrally Located Wholesale Cut Flower House in Chicago.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

KENNICOTT BROS. CO.

Wholesale Cut Flowers and Florists' Supplies.

42-44 Randolph St., CHICAGO.

WIETOR BROS.

Wholesale Growers of Cut Flowers

All telegraph and telephone orders given prompt attention.

51 Wabash Avenue, CHICAGO.

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.

600,000 FEET OF GLASS.

Headquarters for American Beauty.

51 Wabash Ave., CHICAGO, ILL.

FRANK GARLAND,

Wholesale Grower of Cut Flowers

SPECIAL ATTENTION GIVEN TO HARDY CUT **FERNS**
55-57 WABASH AVENUE,
Telephone Central 3784 CHICAGO.

It is good business policyto mention the

American Florist

When you write to an advertiser.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty

WHOLESALE GROWER OF CUT FLOWERS

Benthey & Co.

F. F. BENTHEY, Manager.

Wholesale Commission Florists

Consignments solicited. 31-35 Randolph St., Chicago.

Wholesale Flower Markets

CHICAGO, Oct. 10.		
Roses, Beauty, 36-inch stems		3.00
" " 30 " "		2.50
" " 24 " "		2.00
" " 20 " "		1.50
" " 15 " "		1.00
" " 12 " "		.75
" " 6 to 8 " "	per 100	4.00@ 5.00
Liberty		3.00@10.00
LaFrance, Chateaub		3.00@10.00
Bride, Bridesmaid		2.00@ 6.00
Meteor		2.00@ 6.00
Perle		2.00@ 5.00
Golden Gate		2.00@ 6.00
Chrysanthemums, per doz.	\$2.00@3.00	
Violets		1.00
Carnations		2.00@ 3.00
Lily of the valley		4.00
Harrisii, per doz.	\$2.00	
Asparagus, per string	.50	
Adiantum		.75@ 1.00
Common ferns, per 1000	1.00	.15
Galax leaves, per 1000	1.25	.15
Smilax, per dozen	1.25@1.50	

LILY OF THE VALLEY.

Extra fine cut Valley every day in the year. Fine cold storage pips. \$1.50 per 100; \$13.00 per 1000.

H. N. BRUNS,
1409-1411 W. Madison St., CHICAGO.

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO

Send for weekly price list and special quotations on 1000 lots.

Please mention the American Florist when writing.

JOHN MUNO,

Wholesale Grower and Shipper of Cut Flowers

Room 221, 51 Wabash Ave., CHICAGO.

TELEPHONE CENTRAL 3598. All telegraph and telephone orders given prompt attention.

Please mention the American Florist when writing.

GEO. REINBERG,

Wholesale Grower of Cut Flowers

Choice American Beauties.

We will take care of your orders at reasonable prices. Prompt attention.

51 Wabash Ave., CHICAGO, ILL.

Please mention the American Florist when writing.

VALLEY SAMUEL S. PENNOCK, ORCHIDS

Wholesale Florist,
1612-18 LUDLOW ST., PHILADELPHIA, PA.
Open from 7:30 a. m. to 8:00 p. m.

GEO. A. SUTHERLAND,
34 Hawley St., BOSTON.
Telephone 1270 Main.

BEST BOSTON FLOWERS. All Supplies.
An entire floor Devoted to Stock and Manu-
facturing. Distributing Agent for United States
for the wonderful



LETTER, unequalled for design
work. Script, any color, 3/4c a
letter. Block letters, 1 1/2c each.
The most elaborate design work
to order in a few minutes.

GENERAL AGENTS:

H. BAYERSDORFER & CO., Philadelphia.
REED & KELLER, New York City.

A FULL STOCK OF
**SEASONABLE
FLOWERS.**

CITY HALL CUT FLOWER MARKET

WELCH BROS., PROPS.

9 CHAPMAN PLACE, Boston, Mass.
15 PROVINCE STREET,

THE
NEW YORK CUT FLOWER CO.
55 and 57 West 26th St.,
WHOLESALE FLORISTS,

Daily Reports. Weekly Payments.
TELEPHONES: J. A. MILLANG,
2239 Madison Sq. MANAGER.
2034 Madison Sq.

GEORGE SALT FORD,
Wholesale Commission Florist,

46 West 29th Street, NEW YORK.

Fair dealing and prompt returns guaranteed.
Correspondence solicited.

ROVATZOS & MOLTZ

Buy and Sell FLOWERS on Close Margin.

Headquarters, 56 West 26th Street,
WRITE, Opposite Cut Flower Exchange,
TELEGRAPH OR TELEPHONE. NEW YORK CITY.

N. F. McCARTHY & CO.
Best Quality
CUT FLOWERS
and Supplies,

Tel. 734 and 64 Main. 84 Hawley St., BOSTON.

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg, 6th Ave. and W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock
Every Morning

DESIRABLE WALL SPACE TO RENT
FOR ADVERTISING.

JOHN DONALDSON, Secretary.

Hardy Ferns...

Everything and anything in Florists'
Hardy Supplies at lowest prices. Esti-
mates on large orders on application.
Prompt delivery.

BOSTON FERN CO., 14 Brattle St., BOSTON, MASS.

Wholesale Flower Markets

BOSTON, Oct. 8.

Roses, Beauty, extra.....	10.00@25.00
" " medium.....	5.00@ 8.00
" " culls.....	.50@ 2.00
" " Bride, Bridemaid, Meteor.....	.75@ 2.00
" " extra.....	4.00@ 6.00
" " Kaiserin, Carnot.....	3.00@ 5.00
Chrysanthemums.....	6.00@ 8.00
Carnations.....	.50@ 2.00
Asters.....	.50@ 1.50
Gladioli Shakespeare.....	2.00@ 4.00
Lily of the valley.....	2.00@ 4.00
Lilies, Japan.....	2.00@ 3.00
Adiantum.....	.75@ 1.00
Asparagus.....	50 00
Smilax.....	12.50@18.00

PHILADELPHIA, Oct. 8.

Roses, Tea.....	2.00@ 4.00
" " extra.....	4.00@ 8.00
" " Beauty, extra.....	15.00@ 35.00
" " firsts.....	8.00@12.00
" " Queen of Edgely, extra.....	20.00@25.00
" " firsts.....	10.00@15.00
Carnations.....	1.00@ 2.00
Chrysanthemums, per doz.,.....	2.00@ 3.00
Violets.....	.50@ 1.00
Lily of the valley.....	3.00@ 5.00
Asparagus.....	25.00@50.00
Smilax.....	12.50@15.00

BUFFALO, Oct. 9.

Roses, Beauty.....	6.00@25.00
" " Bride, Bridesmaid, Meteor.....	3.00@ 6.00
Carnations.....	1.50@ 3.00
Chrysanthemums, per doz.,.....	2.00@ 3.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50



HARDY Cut Dagger and
Fancy Ferns.
A No. 1 quality \$1 per 1000.
Brilliant Bronze and Green
Galax, \$1 per 1000, in 5,000 lots.
Laurel Festooning, 4, 5 and
6c per yard. Orders by mail,
telephone or telegraph
promptly attended to. Dis-
count on large orders. L. D.
telephone 2618 Main.

HENRY M. ROBINSON & CO., 32-36 Court Sq., Boston.

If it is grown in
we supply it. **Florida,**
Florida grown CYCAS LEAVES, fresh or pre-
pared; PALM LEAVES, TRUNKS, CROWNS,
SPANISH MOSS, FLORIDA ORCHIDS,
"COONTIE", etc., etc.

Seminole Palm Co., Haines City, Fla.
Please mention the American Florist when writing.

FANCY OR DAGGER FERNS

1st quality, 75c per 1000. Discount on large orders.
BRONZE OR GREEN GALAX \$1.00 PER 1000.

LAUREL FESTOONING, just the thing for
summer decorations, only 4, 5 and
6c per yd. Discount on ferns
and laurel in large quantities.



Millington, Mass.
Tel. office, New Salem.

Galax Bronze, \$1.25 per 1000; Green,
\$1.00 per 1000. Southern Smilax,
best quality, 50 lb. case \$6.00;
35 lb. case \$4.50; 25 lb. case \$3.75. Leucothoe
Sprays, bronze and green, assorted sizes, \$1.00 per
100. Sphagnum Moss, \$1.50 per bale. Palmetto
Leaves, \$1.50 and \$2.00 per 100.

L. J. KRESHOVER.
110-112 W. 27th Street, NEW YORK CITY.
Telephone call, 597 Madison Square.

Southern Wild Smilax,

Long Needle Pines, Magnolia Leaves,
Mistletoe, Holly,
Palm Crowns and Palm Leaves.

Orders filled promptly at lowest prices consist-
ent with choice quality.

JOHN S. COLLINS, GENEVA, ALA.

Give Us a Trial. We Can Please You.



Roses, Carnations and all kinds of
Seasonable Flowers in stock.

WM. F. KASTING, Wholesale Com-
mission Florist,
481 Washington St., Buffalo, N. Y.
Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

Beauties and Valley Leo. Niessen,

IN QUANTITIES.

On and after Sept. 15th will be open from 7 a. m. till 8 p. m. until further notice.

WHOLESALE FLORIST,
N. W. Cor. 13th and Filbert Sts., Phila.

FLOWERS SHIPPED BY

JOHN I. RAYNOR

ARE THE BEST PRODUCT OF THE BEST GROWERS FOR THE NEW YORK MARKET.

PACKING
RIGHTS
ROMPTNESS

ALL RIGHT.

49 W. 28th Street, NEW YORK.
Tel. 1908 Madison Square.

Walter F. Sheridan, Wholesale Florist,

Telephone 902 Madison Square.

39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square.



MOORE, HENTZ & NASH

Wholesale Commission Florists,

65 and 57 West 28th St., NEW YORK CITY.

Adjoining New York Cut Flower Co. salesroom.
Finest Salesroom in the Trade. Inspection Invited.
All business, selling or shipping, strictly commission.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.

Are supplying the most superb stock of FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.

SEND FOR QUOTATIONS.

VIOLETS.

VIOLETS.

Wholesale WILLIAM GHORMLEY Commission

Daily Receiver and Shipper of Fresh Cut Flowers.

Orchids, Roses, Carnations, Valley, Chrysanthemums.

Telephones 2100 and 2200 Madison Square.

57 West 28th Street, NEW YORK CITY.

JOHN YOUNG

Special American Beauties,
Surpassing Carnations,
Lily of the Valley, Orchids,
and all Seasonable Flowers.

51 West 28th St., NEW YORK.
Tel. 1906 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN
NEW YORK CITY FOR

Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

WM. H. GUNTHER,
30 West 29th St., New York.
Telephone 551 Madison Square.

Frank Millang

Open from 6 a. m. to 5. p. m.

Cut Flower Exchange, 55-57 W. 26th St.
Phone 299 Madison Square. NEW YORK.

ESTABLISHED 1872.

JOHN J. PERKINS,

COMMISSION FLORIST,

Solicits Consignments or Shipping
Orders. Satisfaction given in both.

Write for Terms. 115 West 30th St., New York.

Bonnot Bros.

WHOLESALE FLORISTS.

55 and 57 W. 26th St., New York.
Cut Flower Exchange.

OPEN 6:00 A. M.

An Unequaled Outlet for Consigned Flowers.

Choice Carnations.

Selected Roses.

Traendly & Schenck

NEW YORK CITY,

38 W. 28th Street, Cut Flower Exchange.
New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

NEW YORK, Oct. 8.

Roses, Beauty, select.....	12.00@25.00
" " medium.....	5.00@ 8.00
" " ovals.....	.50@ 2.00
" " Bride, Bridesmaid.....	.25@ 5.00
" " Liberty, Meteor, Kaiserin..	1.00@ 5.00
Carnations.....	.50@ 3.00
Violets.....	.25@ .50
Lily of the valley.....	2.50@ 3.00
Lilies.....	3.00@ 8.00
Dahlias.....	.50@ 1.00
Chrysanthemums.....	4.00@12.00
Gladioli.....	.50@ 1.00
Cattleyas.....	25.00@35.00
Smilax.....	8.00@10.00
Adiantum.....	.50
Asparagus.....	35.00@50.00
Sprangeri, doz. bun.	2.00@3.00

RELIABLE AT ALL SEASONS.

Best Flowers.

REASONABLE PRICES.

J. K. ALLEN

Telephone 167 Madison Square.

OPEN AT 6 A. M. DAILY.

106 W. 28th St., NEW YORK.

FORD BROS.

Receivers and Shippers of

FRESH FLOWERS,

111 West 30th St., NEW YORK.
Telephone 157 Madison Square.

Julius Lang

22 West 30th Street, NEW YORK.

REPRESENTS THE BEST GROWERS OF

ROSES, CARNATIONS, VALLEY.

TELEPHONE 280 MADISON SQUARE.

ALEX. J. GUTTMAN,

Wholesale Commission Florist,

A full supply daily of the choicest
New York and New Jersey

FLOWERS.

62 W. 29th Street, NEW YORK CITY.
Telephone 1738 Madison Square.

A. H. LANGJAHR,

Wholesale Commission Florist,

BEST FLOWERS SHIPPED AT LOWEST
NEW YORK PRICES.

19 Boerum Place, Brooklyn, N. Y.

TELEPHONE 930 MAIN.

...GEO. M. KELLOGG...

Largest Grower of... Cut Flowers
in the West.

Give us an order and we will please you.

Our Greenhouses at PLEASANT HILL, MO.

Our Store, 906 Grand Ave., KANSAS CITY, MO

LONG DISTANCE 'PHONE AT EITHER PLACE.

EDW. C. HORAN,

47 WEST 28TH ST.,

Tel. 421
Madison Square,

.....NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STORES, Ptes.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

HENRY A. SALZER and party, who have been journeying in Europe for two months, are expected home at an early date.

FRED. H. HUNTER has left the Cox Seed Company, San Francisco, to take the management of the Germain Seed and Plant Company, at Los Angeles.

THE Funk Bros. Company, of Bloomington, Ill., made a big display of seed corn at the Illinois State Fair at Springfield last week and will show the same at the Peoria Corn Carnival next week.

It was a sad condition of Michigan republican politics which permits ex-Secretary Alger, of embalmed beef memory, to secure the senatorial nomination over such a capable, sound and incorruptible business man as Dexter M. Ferry.

JOHN GUERINEAU and Miss Annie McGowan, both employes of the Sehlegel & Fottler Co., Boston, were married on Tuesday, September 23, greatly to the surprise of their associates, who had no suspicion that such an event was in contemplation.

THE crop of northern Michigan field peas is being rapidly picked up by representatives of manufacturers of prepared foods. They are paying from fifteen to twenty per cent higher prices than were ever known at this season. Growers have received as high as 85 cents per bushel during the past week.

HERBERT W. RAWSON and Harry E. Fiske have been admitted to partnership in the firm of W. W. Rawson & Company, Boston. Mr. Rawson is the son of W. W. Rawson, a graduate of Cornell and for five years with the house. Mr. Fiske has been with the firm fourteen years, nine as manager. Mr. Rawson will continue the market gardening branch as heretofore.

THE seed business conducted by H. L. Holmes, at Harrisburg, Pa., has been succeeded by the Holmes Seed Company, incorporated September 19, 1902, under the laws of Pennsylvania, with a capital of \$50,000. The officers are: George A. Gorgas, president; H. L. Holmes, vice-president and general manager; E. E. Beidleman, secretary; E. Z. Gross, treasurer; R. C. Neal, Sr., Chas. S. Boll and B. F. Myers, directors. The new firm expects to increase its business largely, both wholesale and retail.

BOUQUET green (*Lycopodium*) pickers and handlers are expecting higher prices, partly, no doubt, because of the market closing high last December. This situation and their apparent inclination to think green is gold may influence them to speculate and hold the stock for late buyers. This makes an unsettled market and usually a flat one at the finish. Again the labor question and the weather conditions may alter the outlook considerably later on, there being almost eleven weeks between now and Christmas.

REFERRING to the letter from W. Atlee Burpee published in our issue of August 30, the Johnson & Musser Seed Company, incorporated, writes that their authority for the statement which Mr. Burpee refers to, was printed in the *Los Angeles Herald* of June 13, 1900, which contained the statement then said to

have been made by Mr. Burpee to the *Herald* reporter as follows: "We depend almost entirely on California for seeds." Mr. Burpee now holds by his letter of August 30 that he never intended to make such a broad statement as this.

Cleveland.

COOL WEATHER CUTS DOWN PRODUCTION.—STOCK SCARCE AND PRICES ON THE UP GRADE.—BUSINESS BRISK.—GRAHAM AND HIS LILIES.—NOTES.

The weather for the past week has been decidedly colder, and consequently there has been a considerable shortening up on material of all kinds, especially carnations, the supply being totally inadequate to meet the demand. Prices have advanced all along the line. Roses are in fair supply, but more of the better grades could be used. Business was never better at this time of the year. The out of town demand for stock is very heavy. Dahlias are in their prime and immense bunches are to be seen in all the store windows.

Cosmos is beginning to arrive at last; it is almost two weeks later than last year. Chrysanthemums are becoming more plentiful. Good lily of the valley is selling well.

Adam Graham has completed building another house for carnations. His stock is looking well. A batch of lilies from bulbs grown in the Azore Islands, looks very promising. These will be watched with interest by the craft on account of the claim being made that they are entirely free from disease.

Isaac Kennedy has sold out his interest in the J. M. Gasser Company. ECHO.

HARBOR SPRINGS, MICH.—E. E. Parmeter is closing out his greenhouse business and will give his attention to seed growing.

BATH, ME.—The greenhouses on North street recently conducted by the Kennebec Nurseries have been sold by the assignee to a new corporation to be known as the Kennebec Greenhouses.

OVER 2,000 ACRES IN CULTIVATION.

Braslan Seed Growers Co.

Growers for the Wholesale Trade Only.
Correspondence solicited. SAN JOSE, CAL.



Field of Yellow Globe Danvers Onion going to seed, 1902 crop.

Mushroom Spawn Fresh Importation
FERTILE. PRODUCTIVE.
English in bricks, per 100 lbs., \$6.50 f. o. b. New York, \$7.00 f. o. b. Chicago. Write for prices on quantity.
Vaughan's Seed Store,
CHICAGO. NEW YORK.

BURPEE'S SEEDS
PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.

Strictly New England GROWN SEEDS.

SPECIALTIES—Onion (Southport Globes), Turnip Seed and Sweet Corn, Beet, Parsnip, Carrot, Cabbage. We can answer all questions without flinching as to quality and where grown.

The E. B. CLARK CO., Milford, Conn.

ESTABLISHED 1802

THORBURN'S SEEDS

Send for special low prices on **LILIUM HARRISII** stating the number you require. We have unexpectedly received a large consignment.

J. M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

1877. — 1902.

The present week rounds out the TWENTY-FIFTH YEAR of our business, the first wholesale cut flower commission house established in New England. During this

QUARTER of a CENTURY

Our aim has always been to keep at the top of the ladder in variety and quality of the goods handled by us. This position we think we still maintain, marketing the stock of growers unrivalled in their particular field. Send to us for AMERICAN BEAUTY ROSES, LILY OF THE VALLEY, FANCY CHRYSANTHEMUMS, and any and all varieties of cut flowers and supplies needed by the progressive florist of 1902.

WELCH BROS.

CITY HALL CUT FLOWER MARKET,
9 CHAPMAN PLACE, 15 PROVINCE ST.

BOSTON, MASS.

A FEW GOOD THINGS YOU WANT.

- ARECA LUTESCENS**, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
- KENTIA** Belmoreana and Forsteriana, extra clean and well grown plants, 2½, 3, 4 and 5-in., \$3, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
- REX BEGONIA**, 2 and 3-inch, \$1 and \$6 per 100.
- BOSTON FERN**, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.
- ASPARAGUS Plumosus**, 2-inch, \$5; 3-inch, \$8 Sprenger, 2-inch \$3; 3-inch, \$5, per 100.
- DRACAENA INDIVISA**, 4, 5-in., \$10, \$25 per 100.
- ENGLISH IVY**, 2 and 3-inch, \$3 and \$6 per 100.
- CAMPBELL VIOLETS**, 3-inch, \$4.00 per 100.
- GERANIUMS**, rooted cuttings, standard varieties: your choice \$1.25, my choice \$1.50 per 100.
- VINCA VAR.**, 3-inch, \$4.00 per 100.
- CINERARIA**, 2-inch, \$2.00 per 100.
- Chinese Primrose**, 2-in., \$3; 3-inch, \$5 per 100. Cash or C. O. D.

GEO. M. EMMANS, NEWTON, N. J.

PANSIES

Roemer's Superb Prize Pansies.
The World's Best.

STONG, FINE STOCKY PLANTS, Mixed colors, by mail, 75 cents per 100; by express, \$4.00 per 1000; \$7.00 per 2000; \$10.00 per 3000; \$15.00 per 5000; \$25.00 per 10,000. Large plants in bud and bloom, \$1.25 per 100; \$10.00 per 1000.

CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

CYCLAMENS.

Well set with buds, 4-inch, \$12.00; 5-inch, \$18.00 and \$25.00.
CINERARIA, 3-inch strong, frame grown, \$5.00.
PRIMROSES, 4-inch, \$8.00.
Field-grown **ASPARAGUS SPRENGERI**, \$3.00, \$5.00, \$7.00 per 100.

Christ. Winterich, Defiance, Ohio.

500,000 GIANT PANSIES SMALL OR LARGE PLANTS.

- Mixed of the following strains: Mme. Perret, International, Giant Trimardeau, Roemer's Show, Fancy, Five Spot and Ne Plus Ultra Strains, 50c per 100; \$3.00 per 1000.
- 50,000 DREER'S DOUBLE DAISIES**, Snowball, Longfellow, Giant. Same price as Pansies.
- 5,000 FORGET-ME-NOT**, 75c per 100; \$5.00 per 1000.
- VIOLETS**, Lady H. Campbell, 2-inch, strong, \$2.00 per 100.
- 3,000 VINCA**, Variegated and Green, strong field clumps, \$4.00 per 100; \$30 per 1000.
- ASPARAGUS SPRENGERI**, 2-inch, strong, \$2.00 per 100.
- ASPARAGUS PLUMOSUS**, 3-inch, strong, \$5.00 per 100.

Boston Ferns 2,500 fine bushy plants from bench, fit for 4, 5 and 6-inch, \$10 per 100. This bargain to make room quick.
PRIMULA OBCONICA, GRAND., ALBA AND ROSEA, will make fine 4-inch, some in bloom, \$2 per 100; \$18 per 1000.
UMBRELLA PLANTS, 2-in., fit for 4-in., \$1.50 per 100.
CHRISTMAS PEPPERS OR CHERRY, 2½-inch, fit for 4-inch, \$1.50 per 100. CASH.

BYER BROS., CHAMBERSBURG, PA.

STOCK GERANIUMS

Field-grown heavy plants. J. D. Eisele and James Davidson, our 1902 novelties, fine bedders, \$2.00 per doz. America, Beaute Poitevine, Dryden, Mrs. E. G. Hill, Frances Perkins, \$1.00 per doz. Cash please.

HENRY EICHHOLZ, Waynesboro, Pa.

JOSEPH HEACOCK,

WYNCOTE, PA.

- GROWER ARECA LUTESCENS, ...01...
- KENTIA BELMOREANA.
- COCOS WEDDELIANA.

Orchids!

Arrived in fine condition: CATTLEYA TRIANA.E. The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

ROBT. CRAIG & SON, Roses, Palms

and Novelties in Decorative Plants.
Market and 49th Sts., Philadelphia, Pa.

OUR DIRECTORY FOR 1902 WILL BE MAILED TO YOU PROMPTLY UPON APPLICATION. PRICE TWO DOLLARS.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSEYMEN.
 CHAS. A. LOENFBLITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.
 Twenty-eighth annual convention, Detroit, Mich., June, 1903.

CRIMSON RAMBLER roses are in demand in the eastern and central states.

ONE of the items of nursery stock notably in demand is Rudbeckia Golden Glow.

THE large sale for raffia indicates good business and heavy budding in the nursery trade this year.

CHICAGO is taking the first steps toward raising a million dollars for investment in small parks.

PROSPERITY among the fruit growers assures a wide market for trees in both the fall and spring seasons.

THE nurserymen of Dansville, N. Y., estimate their combined fall shipments as more than two and a half million trees.

THE demand for American apples in Europe continues to increase. Shipments are now going out from Montreal, Boston and New York.

PROF. N. E. HANSEN, of Brookings, S. D., is making elaborate experiments with the Siberian crab as a hardy fruit stock for the northwest.

THE grape growers in Ontario county, New York, have contracted with wineries to supply Delaware grapes at \$100 per ton, a price which has not prevailed for years.

A RECENT experiment in shipping Georgia peaches to Liverpool, backed by the government, proved profitable. It is thought likely Europe will take many Georgia peaches next season.

Kenton, O.

GROWER MAKING STEADY PROGRESS.—OUT OF TOWN TRADE TO BE PUSHED,—GOOD NEW HOUSES.

W. Sabransky has had an eight years' season of uninterrupted prosperity since he located in Kenton, in 1894. He began business with only 4,000 feet of glass and has been building steadily, this season's addition bringing the total up to 20,000 square feet. The two new houses are of the most modern pattern, iron frames, posts and duplex gutters. One of the new houses, 26x128, is given to roses, the other, 16x128, to carnations and another similar carnation house is to be put up in the spring. The heating plant, two hot water boilers, is in a pit 15x50 feet.

Mr. Sabransky has a house 16x105 of chrysanthemums which are in prime condition, but a large part of his business is in plants, wholesale and retail. He does a nice mailing trade and is planning to largely increase this branch of his business.

LAST CALL

If you want any of the following stock at giveaway prices. **SPEAK QUICK.** We need room.

FEVERFEW LITTLE GEM, strong rooted cuttings, \$1.00 per 100; \$7.50 per 1000.

15,000 SMILAX Extra strong, 2 1/2-inch, ready for planting, 75c per 100; \$7.00 per 1000.

10,000 ASP. SPRENGERI Extra strong 2 1/2-in., \$2.00 per 100; \$18.00 per 1000. Fine 2 1/4-inch, \$1.25 per 100; \$12.00 per 1000. **CASH WITH ORDER.**

The W. T. Buckley Plant Co., Springfield, Ill.

California Privet.

Any Size Desired up to 6 Feet.

Contracts for immediate and future delivery solicited. Very attractive prices on car load lots, either of a single size or assorted sizes.

J. T. LOVETT, LITTLE SILVER, N. J.

B. & A. SPECIALTIES

AZALEAS, all sizes and varieties.
KENTIAS, 2-inch pots to 10 ft. specimens.

DUTCH, FRENCH, CHINESE and JAPANESE BULBS in all varieties and at reasonable prices.

ASK FOR FALL CATALOGUE.

BOBBINK & ATKINS, Rutherford, N. J.

Cut Gladiolus Spikes

of the **HIGHEST QUALITY**, in lots of from **100 to 100,000**. Pink, scarlet, crimson, white, light, yellow, blue, lavender and heliotrope; in fact, almost every shade imaginable.

Write for prices and particulars, stating your requirements.

ARTHUR GOWEE, "Meadowvale Farm," Long Dist. 'Phone, **BERLIN, N. Y.**
 U. S. Representative and Grower of **GROFF'S HYBRIDS**.

Watch this space for bulb advertisement later.

25,000 Rudbeckia The Glow
 Clumps, \$3.00 per 100; \$25.00 per 1000.

25,000 Boltonia Asteroides
 Clumps, \$4.00 per 100, \$35.00 per 1000.
 and thousands of other varieties of

Hardy Herbaceous Plants.
150,000 ASPARAGUS,

Conover's Colossal, etc., and a full line of Trees, Shrubs, etc. Send for catalogue.

CENTRAL MICHIGAN NURSERY,
 Kalamazoo, Mich.

PRAEONIAS FOR FALL...
 10 distinct, best kinds, \$10.00 per 100.

Ampelopsis Veitchi, 2 year, strong... \$1.00 per doz.

Clematis Paniculata, 2 year, strong, \$1.00 per doz.; \$7.00 per 100.

Clematis, large flowering, \$2.50 per doz.; \$16 per 100.

F. A. BALLER, Bloomington, Ill.

600,000 CAL. PRIVET

1, 2, 3 and 4 YEARS OLD.
 1, 2, 3 and 4 FEET.
 1, 2, 3 and 4 DOLLARS PER 100.
 Write for 1000 Rates and Trade List.

J. H. O'HAGAN,

River View Nurseries, LITTLE SILVER, N. J.

NEW FRUITS.

Golden Mayberry, strong transplants,	100	1000
Iceburg Blackberry, " "	4.00	
Rathbun Blackberry " "	3.00	25.00
Cumberland Raspberry, " "	3.50	30.00

The Conard & Jones Co, West Grove, Pa.

FERNS my selection for dishes, \$2.50 per 100. Pteris Argyræa, Tremula, Ouvrardi, Caraway, 4-in., 8c. Chinese Primroses and Dble. Bouvardias, 3-in., 5c. 100 field-grown Louise Violets left, \$5 00. Dble. Alyssum, \$3.00.

LEVANT COLE, Battle Creek, Mich.

We have the largest stock of **ARAUCARIA EXCELSA**

in the country, May importation, raised from top cuttings only.

5-inch pots, 3 tiers, 10 inches and above..... \$.50
 5 1/2-inch pots, 12 to 14 inches..... 60 to .75
 6-inch pots, 15 to 18 inches..... 75 to 1.00
 Specimen..... 1.25

KENTIA FORSTERIANA and BELMOREANA, 5 1/2 to 6-in. pots, 25 to 30 inches high. .75

FICUS ELASTICA, 5 1/2 to 6-in., 18 to 24 inches high, from \$4.00 to \$5.00 per doz.

BOSTON FERNS, 6-inch pots..... .40
 Cash with order please. To save express mention if pots to be taken off.

GODFREY ASCHMANN,

WHOLESALE GROWER AND IMPORTER OF POT PLANTS,

1012 Ontario Street, PHILADELPHIA, PA.

100,000 PANSIES

Highest Grade, Finest Stock. The Jennings Strain.

Mr. John Lewis Childs, of Floral Park, N. Y., says of the Jennings Strain: "The largest and finest colored flowers I have ever seen." By mail 75c per 100; by express, \$4.00 per 1000; 3,000 \$11.00; 5,000 \$18.00. Separate colors same price. Large plants ready to bloom Oct. 1st, \$1.00 per 100; \$8.00 per 1000. **SEED,** \$1.00 per pkt.; \$5.00 per oz. **CASH WITH ORDER.**

E. B. JENNINGS, Lock Box 254, Southport, Conn.
 Grower of the Finest Pansies.

Please mention the American Florist when writing.



H. Wrede, LUNEBURG, GERMANY PANSY SEED.

155 First Prizes, the highest awards Chicago, Hamburg 97, Paris 1900. 1000 Seede, finest mixed, 25c. 1 oz. " " " " \$2.25

Price List on application. Cash with order.

Zirngiebel Giant Pansies.

Trade packages at one dollar each. Also plants of the above strains at \$5.00 per 1000, guaranteed equal to any that we ever sent out.

DENYS ZIRNGIEBEL, Needham, Mass.

Please mention the American Florist when writing.

Dreer's Importations of Azaleas

Our importations of Azaleas have arrived and we have commenced shipments. If you have not yet placed your orders we would advise you to do so at once, in order to secure low fall prices, as well as to take advantage of low cost of transportation while shipments can still be made by freight.

We are in position to give you best qualities because our growers are among the most skilled specialists in Belgium. We can give you best values because we are not only the most extensive importers of these plants to the United States, but also because we buy for cash at best prices and give our customers the benefit of these important points.

10 to 12-inch crowns, bushy plants.....	\$4.50 per dozen	\$35.00 per 100
12 to 14-inch crowns, bushy plants.....	6.00 per dozen	45.00 per 100
14 to 16-inch crowns, bushy plants.....	7.50 per dozen	55.00 per 100
16 to 18-inch crowns, bushy plants.....	12.00 per dozen	90.00 per 100
18 to 20-inch crowns, bushy plants.....	25.00 per dozen	200.00 per 100
20 to 24-inch crowns, bushy plants.....	36.00 per dozen	300.00 per 100

We can still include in assorted lots ten per cent Mme. Van der Cruyssen, this variety being very scarce this season.

EXCEPTIONAL VALUES IN ARAUCARIA EXCELSA

The two sizes of Araucaria Excelsa offered below are the greatest values we have ever offered in this plant and you will make a mistake if you don't secure a supply for your Holiday trade:

6-inch pots, 20 to 24 inches high, 4 tiers.....	\$1.00 each
6-inch pots, 24 to 28 inches high, 4 to 5 tiers.....	1.25 each
7-inch pots, 30 to 32 inches high, 5 to 6 tiers.....	1.50 each

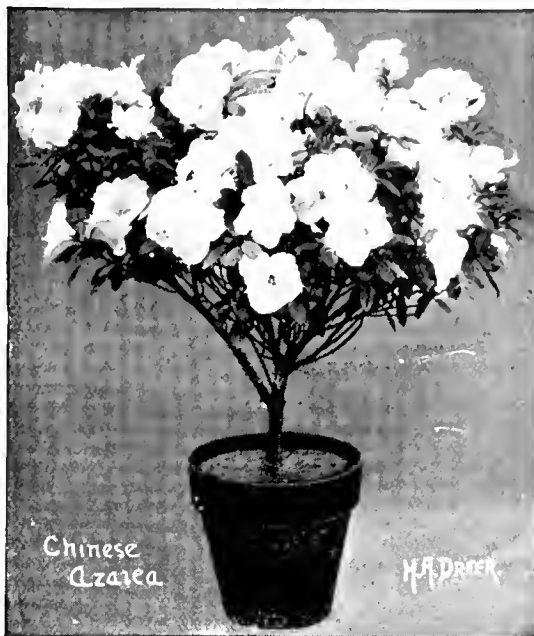
RUBBER PLANT—FICUS ELASTICA.

An exceptionally fine lot of 5-inch pots, plants well furnished, fifteen inches high, \$4.50 per dozen; \$35.00 per 100.

For a full and most complete line of Palms, Ferns and all Decorative Plants, see our QUARTERLY WHOLESALE LIST.

Hardy Perennial Plants, Paeonias, Phloxes, etc., etc., are one of our important specialties. We are carrying an immense stock of these popular plants. Write us for anything you may require in this line.

HENRY A. DREER, PHILADELPHIA, PA.



Princess of Wales and Lady Campbell

VIOLET Plants

Strong field-grown clumps from sand struck Cuttings. \$5.00 per 100; \$35.00 per 1000; Samples 10 cents.

The Albert H. Brown Co., Westboro, Mass.

PRINCESS OF WALES VIOLET PLANTS.

I have a few thousand of these at \$7.00 per 100. Will plant about 15x15.

WM. SIM, CLIFTONDALE, MASS.

VIOLETS

California, Princess of Wales, Single Russian or Parma and White, \$2.00 per 100; \$15.00 per 1000.

A new VIOLET NOVELTY, variegated, white and blue. Price on application.

HONEYSUCKLE VINES, \$1.25 per 100.

FINE DAHLIAS, \$1.00 per doz.

MRS. JUDSON CRABB, CEDARTOWN, CA.

VIOLETS

Imperial, field-grown, \$3.50 per 100, medium plants. Imperial, M. Louise, Swanley White, 3-inch pots, \$3.75 per 100; \$35.00 per 1000. Lady Campbell, \$3.50 per 100; \$30.00 per 1000.

SMILAX 3-inch, fine plants, \$2.00 per 100 to close out.

CRABB & HUNTER, GRAND RAPIDS, MICH.

BEGONIA GLOIRE DE LORRAINE,

Begonia Light Pink Lorraine,

For July and Later Delivery, \$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near Chestnut Hill, Pa.

Please mention the American Florist when writing.

Asparagus Sprengeri,

our specialty, 2 1/2-in., \$2.00; 2 1/4-in., \$2.50; 2 1/2-in., \$3.00; 3-in., \$4.00; 4-in., \$8.00 and \$10.00 per 100. Special rates on large lots.

J. H. BORNHOEFT, TIPTON, IND.

PALMS, FICUS, AZALEAS, Etc.

PALMS.

KENTIA BELMOREANA, 2 1/2-in. pots, \$6.00 per 100; \$50.00 per 1000.

KENTIA BELMOREANA, 3-in. pots, \$12.00 per 100; \$100.00 per 1000.

KENTIA BELMOREANA, 24 to 28 inches, fine bushy plants, \$1.25 each; \$15.00 per doz.

KENTIA BELMOREANA, 30 to 32 inches, perfect condition, \$1.75 each; \$20 per doz.

CYCAS REVOLUTA, 6oc, \$1.00, \$1.25, \$1.50 and \$2.00 each.

AZALEAS, 10 to 12-in. crowns, \$35 per 100.
" 12 to 14-in. crowns, \$45 per 100.
" 14 to 15-in. crowns, \$55 per 100.

FICUS, TRUE BELGIAN VARIETY.

4-in. pots, heavy strong stock, \$25 per 100.
4-in. pots, lighter plants, \$15 per 100.

BOSTON FERNS, 2 1/2-in. pot, \$4.00 per 100.

" 4-in. pot, \$15.00 per 100.

" 5-in. pot, \$25.00 per 100.

PRIMUM CHINENSIS, 2 1/2-in. pots, \$2.50 per 100.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.

Calif'nia

ASPARAGUS PLUMOSUS, Extra fine 3 1/2 inch stock, \$1.00 per 100; \$35.00 per 1000. 4 1/2-inch, \$8.00 per 100.

EXPRESS PREPAID.

Pansy Seed, 1902 Giant of California.

\$4.00 per ounce, 4 ounce at same rate.

FIELD-GROWN CARNATIONS,

QUEEN LOUISE..... \$7.10 per 100

MERMAID..... 6.00 per 100

LOOMIS FLORAL CO., Loomis, Cal.

Mention the American Florist when writing to advertisers on this page.

Geraniums.

Unrooted cuttings, S. A. Nutt, Jean Viaud, La Favorite and Clyde, \$10 per 1000; 2 1/2-inch, \$20.00 per 1000.

ASPARAGUS PLUMOSUS NANUS, 2 1/2-inch, fine for dishes, \$5.00 per 100; \$40.00 per 1000. ASPARAGUS SPRENGERI, field-grown, \$3 and \$5 per 100.

SMALL FERNS, for dishes, in 6 best varieties, at \$3.00 per 100; \$25.00 per 1000.

BOSTON FERNS, from bench, fine plants, fit for 4 1/2 and 6-inch pots at \$15, \$20 and \$25 per 100; 2 1/2-inch, \$3.00 per 100; \$25.00 per 1000.

CHRISTMAS PEPPERS, 4-inch, \$5.00 per 100.

ADIANTUM CUNEATUM, 4-inch, \$6.00 per 100.

CASH PLEASE.

Carl Hagenburger, W. Mentor, Ohio.

Violets

Strong field-grown Marie Louise, \$5.00 per hundred. Cash with order.

I. N. KRAMER & SON, Cedar Rapids, Iowa.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

At New York.

On Monday afternoon, October 13, the election of officers and general planning of the programme for the season will be in order at the meeting of the New York Florists' Bowling Club and an earnest request is made for a large attendance. Come and bring your sporting friends. Scores recorded on Monday evening, October 6, were as follows:

Player	1st	2d	3d	4th
Lang	141	179	193	146
Trenndy	149	147	143	139
Lorenze	115	141	130	93
Smith	116	161	118	148
Mansfield	141	117	155	

At Chicago.

After the meeting of the Florists' Club there were several very interesting bowling games. Among the visitors present were A. T. Boddington, New York; Wm. Murphy, Cincinnati, and Isaac Kennedy, Cleveland. The scores were as follows:

Player	1st	2d	3d	4th	5th
Phil. Hauswirth	169	154	152	180	151
Wm. Murphy	118	123			
A. T. Boddington	74	106			
John Hoeft	78				
E. F. Winterson	157	174	155	178	211
I. Kennedy	127	135			
W. Kreithling	78	106			
M. Barker	100	101			
George Hartung	108				

Cincinnati.

TRADE BRISK AND SUPPLIES SHORTEN UP.—CHRYSANTHEMUMS MORE PLENTIFUL.—GOOD CARNATIONS.—DEMISE OF A POPULAR GENTLEMAN.—VARIOUS NOTES.

The cool weather of the past week shortened the supply of flowers considerably; in fact, good stock was scarce. The commission houses cleaned out stock every day and fair prices prevailed. Chrysanthemums are coming in more plentifully and \$1 to \$1.50 per dozen is the price. Bergmann predominates. Roses are improving in quality and are in good demand. Max Rudolph is cutting some very good carnations. He says that Mrs. E. A. Nelson is doing well for him and is well pleased with it. From the different growers about the city who invested in the Nelson I have the same report.

Herman Betz, brother of Robert Betz, after an illness of several weeks, succumbed last Saturday to bronchitis. For many years Mr. Betz was employed by Mr. Critchell. He was buried Tuesday afternoon and quite a number of the craft attended. He leaves a wife and daughter who have the sympathy of a large num-

ber of friends, as the numerous floral tributes sent to the house of mourning testified.

J. A. Peterson went to Dayton, O., with the Hanselmann Commandery last Tuesday to attend the sixtieth annual conclave of the Grand Commandery, Knights Templar of Ohio. D.

Columbus, O.

TRADE VERY HEAVY AND STOCK SCARCE.—A GOOD RED CARNATION.—CARNATION GROWER PROSPERS.

The junior member of W. Sabransky, Kenton, O., was in the city last week displaying a fine sample of his new red carnation, Crane X Flora Hill. Mr. Sabransky, who has grown this prolific red for the past three years, claims it is one of the cleanest growers on their place. He is thinking of entering it at the Brooklyn carnation convention.

All records have been broken for the past two weeks in number of deaths in this city, and the heavy rains ruined all outdoor stock, making white flowers very scarce. Every firm in the city had all and more than it could do in cut flower work and many were the boxes carried from the station every morning, containing stock shipped in.

Gravett & Sons, of Lancaster, O., are shipping in some fine carnations. This firm is adding a house or two every year to its plant and will soon be classed among our largest carnation growers.

Some very good Bergmann chrysanthemums are making their appearance, with Glory of Pacific not far off. CARL.

Chicago Carnation Co.
Joliet, Illinois.

NEW ENGLAND FLORISTS.

Owing to the scarcity of space in the Boston Flower Market, for handling my enormous stock of **CHRYSANTHEMUM CUT BLOOMS**, I wish to state to my patrons and others that I can ship blooms direct from Boston and Cliftondale during the season. This will be a great help to parties who cannot carry the blooms from the market.

I have by far the largest and finest stock in New England and shall cut about **75,000 first-class blooms**.

For further particulars, address

WILLIAM SIM,

Stall 21, Park St. Flower Market, Boston, Mass., or Cliftondale, Mass.

CANNAS.

Strong Field-Grown Clumps.

Duke of Marlborough, Florence Vaughan, President Cleveland, Charles Henderson, A. Bouvier, Robert Christie, Queen Charlotte, Sophie Buchner and Austria, \$15 00 per 100

Egandale, Sou. de Antoine Crozy, Sam Trelease, President Carnot, Chicago, Beate Poitevine and Martha Washington, \$25 00 per 100.

Save heavy express charges by ordering at once by freight.

The Storrs & Harrison Co.
PAINESVILLE, OHIO.

Orders booked now—delivery in September—
for my Nephrolepis Fern

"ANNA FOSTER"

Small plants, \$25.00 per 100; larger plants prices on application.
BOSTON FERN now ready at \$25 and \$50 per 100.

L. H. FOSTER, 45 King St., Dorchester, Mass.

The COTTAGE GARDENS,
QUEENS, L. I.

SEND FOR PRICE LIST OF

Paeonias, Herbaceous Plants, Phlox, Azaleas, Specimen Trees and Shrubs.

LOOK OUT 5,000 CAMPBELL VIOLET CLUMPS, clean and healthy. Cash price \$3 per 100. 2 1/4-in., \$1.50 per 100. By the violet grower. A. B. CAMPBELL, Cochranville, Pa.

NOTICE--

Are you a Buyer of Cut Flowers, Bulbs, Seeds or Supplies?
Are you a Grower of Cut Flowers, Bulbs, Seeds or Novelties?

IF YOU ARE, COMMUNICATE WITH

McKELLAR & WINTERSON

45-47-49 Wabash Avenue, CHICAGO.



Just Arrived, Special Importation 12 TO 15-INCH AZALEAS.

We offer these for one week only, at \$38.00 per original case of 90 plants. Extra fine Crowns, well set, 12 best varieties in each case.

Vaughan's Seed Store,
84 RANDOLPH ST., CHICAGO. 14 BARCLAY ST., NEW YORK.

Boston Ferns.

	Per 100
2-inch.....	\$ 4.00
3 inch.....	8.00
4-inch.....	15.00
5-inch.....	25.00
From bench, ready for 4-inch pots.....	10.00
From bench, small runners.....	3.00
WITTBOLDII FERNS (new), 3-inch.....	4.00
GREVILLEA ROBUSTA , 4-inch.....	6.00
ASPARAGUS PLUMOSUS NANUS , 2-inch.....	3.50
ASPARAGUS SPRENGERI , 2-inch, heavy.....	2.50
SMILAX , 3-inch, per 1000, \$48.00.....	2.00
SWAINSONA , white and pink, 3-inch.....	5.00
BABY PRIMROSE , 2-inch.....	2.00
VINCA , trailing, 2 vars., ready for 4-in. pots.....	4.00
UMBRELLA PLANTS , 2-inch, fine.....	2.00
CAREX JAP. VAR. , 3-inch, per doz. \$1.00.....	8.00
ENGLISH IVIES , extra heavy and large plants.....	15.00
CLEMATIS PAN. , small plants, pot grown.....	2.50

*Cash or satisfactory reference with order from unknown parties.

Geo. L. MILLER, Newark, O.

Boston Ferns.

We are headquarters in the West for them. Write us about 2½, 3, 4, 5, 6, 7, 8 and 10-in. sizes.

ASPARAGUS PLUMOSUS AND SPRENGERI, 2½, 3, 4 and 5-inch.

SMILAX, 2 and 3-inch.

A lot of 5-in. **HIBISCUS** to close at \$1.50 per doz.

CINERARIAS, in 2½ and 3-inch.

GERANIUMS, rooted cuttings now ready. Write

GEO. A. KUHL, Pekin, Ill.

ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong, 2½-inch, \$3.50 per 100.

SPRENGERI, strong, 2½-inch, \$2.50 per 100.

BOSTON FERNS.

2½-inch pots, \$3.00 per 100. From bench fit for 3, 4, 5, 6, 7 and 8-in., 2½c, 5c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA

Extra fine, 4 to 7-inch pots, only 12c per leaf.

25 FINE RUBBER PLANTS, 3 feet, \$1 each, or the lot for \$20.00. CASH PLEASE.

A. J. BALDWIN, NEWARK, OHIO.

Primroses

	Per 100
CHINESE , single, mixed, 2½-in. pot, strong.....	\$1.50
ASPARAGUS SPRENGERI , 2½-inch pots.....	2.00
ASPARAGUS PLUMOSUS , " " strong.....	3.00
NARCISSUS , Paper White Grandiflora.....	1.00
PANSY PLANTS	\$3.00 per 1000; .60

CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

Please mention the American Florist when writing.



ARECA LUTESCENS, per doz.—2¼-inch, 75c; 3, \$1; 3¼, \$2; 4, \$3.
KENTIA BELMOREANA, per doz.—2¼-inch, \$1.50; 3-inch, \$2; 3¼-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20; 6-inch, \$18.
KENTIA FORSTERIANA, per doz.—2¼-inch, \$1.50; 3-inch, \$2.00; 3¼-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20.
LATANIA BORBONICA, per doz.—2¼-in., 60c; 3, \$1; 6, \$7.20; 7, \$10.
PANDANUS VEITCHII, per doz.—5-in., \$12; 6 in., \$18; 8-in., \$24.
PANDANUS UTILIS, 4-in., \$3 per doz.
NEPHROLEPIS BOSTONIENSIS, per doz.—5-in., \$3; 6-in., \$3; 7-in., \$9; 8-in., \$12; 9-in., \$18; 10-in., \$24.
ASPARAGUS PLUMOSUS NANUS, per 100—2-in., \$4; 3-in., \$8; 4, \$12.
ASPARAGUS SPRENGERI, per 100—4-inch, \$12.
PHOENIX CANARIENSIS, 6-inch, \$6 per doz.
SEAFORTHIA ELEGANS, 5-inch, \$5 per doz.
DRACAENA INDIVISA, 4-in., \$2; 5-in., \$3; 6, \$5; strong, \$3 per doz.
ADIANTUM, 2-in., \$4; 3-in., \$8 per 100. Small ferns for dishes, \$3 per 100; \$25 per 1000.
FERN BALLS, well furnished with leaves, \$3 to \$5 per doz.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

Pansies Worth Raising.

Seed, ¾ oz.....	\$1.00
Plants, per 1000.....	4.00

FERNS...

FOR JARDINIERS.

Assorted from flats, \$1.50 per 100 clumps.
 Assorted from pots, \$3.00 per 100 plants.

BOSTON FERNS

From \$15.00 to \$50.00 per 100.

RUBBER PLANTS, \$30.00 per 100.

ASPARAGUS PLUMOSUS

\$5.00 to \$10.00 per 100.

ALL A NO. 1 STOCK.

Sample lots for \$2.00 worth at above rates.

All plants f. o. b. express here.

CASH WITH ORDER.

CHR. SOLTAU,

199 GRANT AVENUE, JERSEY CITY, N. J.

\$8.50 TO CLEVELAND AND RETURN

via Nickel Plate Road, October 20th and 21st, good returning to and including October 27th. Three daily trains, with vestibuled sleeping cars. American Club Meals, ranging in price from 35c. to \$1.00, served in dining cars; also meals a la carte. Write or call on John Y. Calahan, General Agent, 113 Adams St., Chicago, Phone Central 2057, for particulars. City ticket office, 111 Adams St. Chicago Depot, Harrison St. and Fifth Ave.

55

THE KINNEY PUMP.

For applying liquid manure it has no equal. Sent prepaid for \$2.00.

THE HOSE CONNECTION CO., Kingston, R. I.

ASPARAGUS SPRENGERI

These plants have short tops and extra strong roots. Are cheaper and give quicker returns than pot-grown stock. \$4.00, \$6.00 and \$8.00 per 100, according to size.

BEGONIA REX, best named varieties. Special price to make room, from 2½-inch pots, \$4.00 per 100.

BEGONIA INCARNATA, the most useful begonia for winter flowering, 3-inch pots, \$8.00 per 100.

CAREX JAP. VARIEGATA, a useful decorative grass, from 2½-inch pots, \$2.50 per 100.

CINERARIA STELLATA, from 2 to 4 feet high, well branched and covered with a mass of medium sized blooms. The plants make a most effective display, either as a specimen or in groups.

CYPERUS ALTERNIFOLIUS, bushy outdoor-grown plants in 3-inch pots, extra strong, ready for a shift, \$4.00 per 100.

VIOLETS, CALIFORNIA, field-grown, second size, \$3.00 per 100.

PRIMROSES, (Chinese). After several years of careful tests, we are now able to offer stock from the finest imported seed. Can guarantee satisfaction. From 3-inch pots, in white, light pink, scarlet and blue, \$5.00 per 100.

Nathan Smith & Son, Adrian, Mich.

PALMS.

HOME-GROWN, FINE, CLEAN STOCK; GROWN COOL.

Write for Price List. **J. B. HEISS,**
The Exotic Nurseries, DAYTON, OHIO.

Please mention the American Florist when writing.

Syracuse, N. Y.

CEMETERY TO HAVE MODERN RANGE FOR PLANTS AND CUT FLOWERS.—TRADE REPORTED GOOD.—VARIOUS NOTES.

Work on the greenhouses which James J. Belden is building for the Oakwood Cemetery Association, is about completed. The conservatory is 114 feet long. The palm house, which occupies the center, is fifty feet long and thirty feet high. On either side of it are the plant houses, which are thirty-seven feet long. Behind the palm house is a square cellar which is to be used as a potting shed and boiler room. The conservatory will be stocked with Mr. Belden's large collection of palms and plants. Cut flowers will be sold to patrons of the cemetery. The Phillips Company, of Jersey City, is constructing the steel work.

All the florists report that business is good. The quality of roses has been somewhat injured by the warm weather. Carnations are coming in well. Asters are all gone and chrysanthemums are just beginning to come in. The summer has been exceptionally good and the demand for outdoor stock seems to be growing every year. Orders are already booked for planting next year.

P. R. Quinlan & Company are making a window display of Dutch bulbs and also have a window of orchids. These bring 50 cents a bloom and the plants are worth \$8 to \$10 each. Mr. Quinlan has a new chrysanthemum which is being cut now. It is to be called Phillip's Early White. A. J. B.

FLORENCE, COL.—L. Tempfin & Company have just completed a large work-room and stocked it with 400 wire designs.

SAULT STE MARIE, MICH.—W. E. F. Webber has prospered and this year increased his glass area to 5,000 feet. He proposes to put up further houses next spring.

ASPARAGUS SPRENGERI
from Flats, \$1 per 100; \$7.50 per 1000.

PANSY WESTERN GIANT FLOWERING
Trade pkf., 10c; \$2.00 per oz.

ASPARAGUS SPRENGERI
1,000 Seeds, \$1.50.

EXPRESS PREPAID.

WESTERN CARNATION CO.
E. N. FANCHER, Mgr. LOOMIS, CAL.

SPECIAL This Week

20,000 CYCLAMEN PERSICUM SPLENDENS GIGANTEUM,

finest strain in the world, now ready for immediate shipment, extra well grown plants, well budded from 3-inch pots, \$8.00 per 100; \$50.00 per 1000. From 2½-inch pots, \$4 per 100; \$30 per 1000. 250 plants at 1000 rate. Satisfaction guaranteed.

PAUL MADER, East Stroudsburg, Pa.

HERRON....

Carnation Grower,

OLEAN, N. Y.

CARNATIONS!

FINE, LARGE, HEALTHY FIELD-GROWN PLANTS.

	Per 100	Per 1000		Per 100	Per 1000
White Cloud.....	\$6.00	\$50.00	Marquis	\$5.00	\$40.00
Norway.....	6.00	50.00	Guardian Angel	5.00	45.00
			Prosperity.....	5.00	40.00

WIETOR BROS., 51 Wabash Ave., Chicago.

100,000 Field-Grown CARNATION PLANTS

Plants now are in first-class condition. We have no stem rot.

BUTTERCUP,	LIBERTY, 1st, \$7.00 per 100.	PROSPERITY, 2d, \$5.00 per 100.	NIDIA,	SUNBEAM,
COMEZ,	PORTIA,	VICTOR,	}	1st, \$5.00 per 100
ARMACINDY,	CROCKER,	MARQUIS,		2d 4.00 per 100
JOOST,	DAYBREAK,	MORNING GLORY,		2nd, \$4.00 per 100

J. L. DILLON, BLOOMSBURG, PA.

G. H. Crane \$6 per 100
Norway, \$6.00 per 100
America \$5.00 per 100
J. G. Ellinger, Philadelphia, Pa.

All The Best CARNATIONS

The Leading Novelties of 1903.
The Best Varieties of 1902.
All the Standard Varieties.
Order your Rooted Cuttings NOW.
GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

HEALTHY FIELD-GROWN CARNATIONS.

	Per 100	Per 1000
JOOST	\$3.00	\$25.00
SCOTT	3.00	25.00

250 at 1000 rate. Cash or C. O. D.

WM. FLUEGGE, 2791 N. Leavitt St., Chicago.

FOR SALE, FIELD GROWN

CARNATIONS

225 fine Crane, first come first served, \$10.
A. LAUB & SON, Hughsonville, N. Y.

50,000 FIELD-GROWN CARNATION PLANTS.

Extra fine stock. Write for prices at once. Personal attention given orders.

Union Street Greenhouse Co., Geneva, N. Y.

CANNAS

Allemania, Defender, Florence Vaughan, Mlle. Berat, Mrs. Robert McKeand, Paul Marquant, \$2.00 per 100; \$15.00 per 1000. Get them now. Don't get left in the spring.

W. W. COLES, Kokomo, Ind.

Please mention the American Florist when writing.

Field-Grown

CARNATIONS

Fine, Strong, Healthy Plants.

	Per 100	Per 1000
PROSPERITY	\$4.00	\$35.00
GENEVIEVE LORD...	4.00	35.00
MARQUIS	4.00	35.00
GUARDIAN ANGEL..	4.00	35.00
METEOR	4.00	35.00

PETER REINBERG,
51 Wabash Ave., Chicago.

ASPARAGUS PLUMOSUS NANUS.

Strong and Bushy, 3-in. pots, per 100, \$5.
TOBACCO STEMS, Fresh and Strong
Bale of 300 pounds, \$1.50.

W. C. BECKERT, Allegheny, Pa.

Roses and Carnations

3,000 strong 3-in. Brides, Meteors and Golden Gates, \$4 per 100; \$30 per 1000. 2-inch, \$2 per 100; \$20 per 1000. Fine healthy plants.
3,000 very fine Marquis and Scott, 12 to 15 in. across, field-grown, \$4.50 per 100. A great bargain at this price.

4-in. Asparagus Plumosus, \$15 per 100.
Some good 4-in. hot water pipe at \$8 per 100.

W. H. GULLETT & SONS, LINCOLN, ILL.

Cannas.

FALL DELIVERY—Italia, Austria, A. Bouvier, Alsace, Burbank, \$1.50 per 100; \$12.00 per 1000. Sample bulbs sent prepaid for 25c. Write us.

MANGELSOORF BROS. CO, Atchison, Kan.

Please mention the American Florist when writing.

LOOK HERE

MISCELLANEOUS SURPLUS STOCK.

Prices by the 100.
 Asparagus Plumosus, 2 1/4-inch, larger than any 3-inch stock on the market, \$5.
 Abutilon Savitzi, 2 1/4-inch, very fine stock, \$6.
 Begonia Rex strong plants and very fine varieties, 2 1/4-inch, \$6.00.
 Begonia Metallica, 3 1/2-inch, very large, \$8.00 and \$10.00.
 English Ivy, 2 1/4-inch, \$3.00. German Ivy, 2 1/4-inch, \$2.00.

THE FOLLOWING CAN BE SHIPPED ON RECEIPT OF ORDER:

GERANIUMS Alphonse Riccard, Beaute Poitevine, Bronze, Double Grant, Freak of Nature, Mme. Salleron, S. A. Nutt, 2 1/4-in., very strong and large at \$2.50 per 100, \$20.00 per 1000. Jean Viaud, Dryden, Vera Vend, 2 1/4-inch, \$3.00 per 100; \$25.00 per 1000. Mme. Salleron, 3-inch, very stocky, \$5.00 per 100. **ROOTED CUTTINGS** Alphonse Riccard Beaute Poitevine, Dbl. Grant, E. G. Hill La Favorite, Peter Crozy, S. A. Nutt, \$15 per 1000. Jean Viaud, Dryden, Vera Vend, \$2 per 100; \$17.50 per 1000.
 Lemon Verbena, 3-inch, very fine and stocky plants, \$8.00 and \$10.00.
 Stock, Princess Alice, 3-inch, strong, \$5.00.
 Snowcrest Daisies, in clumps, \$4.00, \$6.00, \$8.00 and \$10.00. Terms Cash or C. O. D.
 Any of the above are guaranteed to be fine, clean stock.

GREENE & UNDERHILL, Watertown, N. Y.

CARNATIONS

Field-Grown Plants.

	Per 100	Per 1000
PROSPERITY.....	\$5 00	\$45.00
MARQUIS.....	5.00	45.00
EVANSTON.....	5.00	45.00
JOOST.....	5.00	45.00

Strong, Healthy Plants.

GEO. REINBERG, 51 Wabash Ave. CHICAGO.
 Please mention the American Florist when writing.

LILLIAN POND

The Largest and Best White.

A pure white flower averaging 3 1/2 inches on long stiff stems. A continuous, free and early variety with a flower perfectly formed and very fragrant.

A Money Maker for You All.

Orders filled strictly in rotation, delivery commences January 1st, 1903.
 PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00.

S. J. REUTER, WESTERLY, R. I.

Mushroom Spawn



Frequent importations from England. Always fresh and lively.

CARNATIONS

Strong, healthy, field-grown plants, grown on high land.

	100	1000	100	1000
McGowan.....	\$3.50	\$30.00	Portia.....	\$4.00 \$25.00
Crane.....	5.00	40.00	Scott.....	4.00 35.00
Crocker.....	5.00	40.00	Eldorado.....	4.00 35.00
Norway.....	5.00	40.00	Daybreak.....	4.00
Joost.....	4.00	40.00	Victor.....	4.00

J. J. STYER, Concordville, Pa.

15,000 FIELD-GROWN CARNATIONS

Extra strong A No. 1—Wm. Scott and Lizzie McGowan, \$25.00 per 1000; 250 at 1000 rates. 500 F. Joost, \$3.00 per 100.

K. MELBER, Tappan, N. Y.

FIELD GROWN Carnations

150 The Marquis, 200 Gen. Gomez, 200 Ethel Crocker, 200 Daybreak, 400 Frances Joost, 100 White Cloud, 100 Bon Ton, \$5 per 100.

FARQUHAR VIOLETS, 2 1/2-in. pots, \$3.00 per 100. Cash with order.

CHAS. H. GREEN, Spencer, Mass.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Miss Louise Faber

The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet to 6 inches to 4 ft. et. Flowers are of a beautiful pink, similar to a well colored Bride's maid rose and average 2 1/2 inches. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12, \$10 per 100; \$75 per 1000; \$10.10 per 10,000. Orders booked for Jan. delivery.

FICK & FABER, SAN MATEO, CAL.

1,500 PORTIA, 500 SCOTT,

Field-Grown Carnation Plants. Extra fine stock. \$4.00 per 100; \$35.00 per 1000.

John Muno 51 Wabash Ave. CHICAGO.

MURPHY'S WHITE.

A commercial white Carnation, vigorous and healthy grower, early, free and continuous bloomer; stem and calyx its strongest points; a white flower and very fragrant; an enormous producer both as a summer and winter bloomer. Price within reach of all. Will be distributed beginning January 15, 1903. Facilities for rooting 300,000 cuttings. You will want it, so place your order at once.

100, \$6.00; 1,000, \$50.00; 5,000, \$15.00 per 1000; 10,000, \$40.00 per 1000.

I am headquarters for Estelle cuttings, \$4.00 per 100; \$30.01 per 1000. Correspondence solicited.

WM. MURPHY, Wholesale Carnation Grower, STA. F. CINCINNATI, O.

CARNATION PLANTS.

6,000 Scott.....	\$35 per 1000
6,000 Joost.....	40 "
4,000 Flora Hill.....	40 "
2,000 Crane.....	40 "

Extra large and fine plants. Will exchange some for Violet plants.

W. A. HAMMOND, Richmond, Va.

S. S. SKIDELSKY, 708 North 16th St., Philadelphia, Pa.

EXTRA FINE FIELD-GROWN Carnation PLANTS.

500 Prosperity.....	\$8.00 per 100
300 Maceo.....	7.00 per 100
1000 Norway.....	7.00 per 100
1000 Mrs. Joost.....	6.00 per 100
1500 Wm. Scott.....	5.00 per 100
2000 Ethel Crocker.....	5.00 per 100
400 Hill.....	5.00 per 100
1500 Cartledge.....	4.00 per 100
1500 McGowan.....	4.00 per 100
1000 Fisher.....	4.00 per 100

LEO. NIESSEN,

N. W. Corner Thirteenth and Filbert Streets, PHILADELPHIA, PA.

CARNATIONS

	Per 100
GOMEZ and MARQUIS extra large, fine stock.	\$4.00
CRANE splendid plants,	\$2, \$3, 4.00
AMERICA.....	\$2 and 3.00
G. LORD.....	4.00
LAWSON second size.....	4.00
JUBILEE.....	\$3.00 and 4.00
MORNING GLORY.....	4.00

1000 above varieties mixed, including Hill, M. Glory and Joost, extra large plants, at \$3.00 per 100.

W. H. WATSON, Lapeer, Mich.

CARNATIONS

Field-grown Carnation Plants. The following varieties still left, order quick if wanted:

	Per 100	Per 1000
NORWAY, extra fine.....	\$7.00	\$60.00
GENIEVIE LORD.....	6.00	50.00
MERMAID.....	5.00	
BEAU IDEAL.....	5.00	
ADMIRAL CERVERA.....	5.00	

25 plants of 1 variety at 100 rate. \$500 at 1000 rate.

H. WEBER & SONS, Oakland, Md.

CARNATIONS FOR SALE or EXCHANGE.

McGowan, Scott, Kitty Clover, Tidal Wave and a pink seedling very light in color and much better variety than Scott ever was. All plants in fine shape. All \$4.00 per 100, except seedling which is \$6.50. Will exchange for violets, double or single; Asparagus Plumosus, or good scarlet Carnation. If anything else to exchange write.

E. WICKERSHAM & CO., POTTSTOWN, PA.

Lowell, Mass.

TRADE VERY BRISK AND STOCK HARD TO GET.—DEMAND FOR ALL KINDS OF WORK.—FUNERAL FLOWERS WANTED IN PROFUSION.—VARIOUS NOTES.

Business is gradually on the increase. The greenhouse men have been busy handling plants for openings and there have been several weddings which have called for stock of good quality, which has been hard to get of late. But the bulk of the work has been designs for funerals, which have kept some of the storemen on the jump. Chrysanthemums are to be seen in some of the store windows, making their debut last week, but at present the public would rather "have a look" than buy. Bergmann is the variety shown, selling at from \$1.50 to \$3 per dozen. The supply of roses, except Brides and Bridesmaids, has improved immensely, both in quality and supply. Some very fine Kaiserins are being shipped to town. The supply of Morgans far exceeds the demand. Helen Gould is to be had in limited supply. The name of this rose seems to help sell it. The supply of greens is excellent.

Many of the small growers on the outskirts of the city are in a quandary what to do for fuel this winter. Some of them have wood piled up so high that one thinks he has struck a woodyard.

Patten furnished several large designs for the funeral of the Hon. Frank Jones, at Portsmouth, N.H., last week. Charles Halstead accompanied them to see to their safe arrival.

During the past few days the first consignments of Princess of Wales violets arrived, from George Foster, of Tewksbury. A. M.

GERANIUM

100,000 Cuttings in the Sand.

These will be ready in November at the following prices. S. A. Nutt, Buchner, Heteranthe, \$1.25 per 100; \$10.00 per 1000. Perkins, Poitevine, Landry, Riccard, \$2.00 per 100; \$15.00 per 1000. Jean Viaud and M. de Castellane, \$2.50 per 100; \$20.00 per 1000. Bonnot, Castris, Acteon, Harrison, La Favorite, America, La Pilot and Jaulin in small quantities at \$1.50 per 100.

Pansies

500,000 Ready Now AND UNTIL DEC. 1st.

You make no mistake when you buy Herr's Pansies, they are the kind that make you money when they come into bloom. Free by mail at 75c per 100; by express, \$4.00 per 1000.

ALBERT M. HERR, Lancaster, Pa. Please mention the American Florist when writing.

READ THIS AND SEND FOR

VARIEGATED VINCAS, large, bushy, field-grown plants at \$5.00 per 100; small, \$3.00 per 100. Customers are all asking for the new winter-blooming COLEUS THYRSOIDEUS, rooted cuttings, \$3 per 100. FORGET-ME-NOTS, BABY PRIMROSES and YELLOW DAISIES at \$1.00 per 100.

J. A. WIBE, Box 125, Downers Grove, Ill.

Pansy Plants.

MME. PERRET, the finest strain on the market, large plants that will bloom soon at 50c per 100; \$3.50 per 1000; 3,000 for \$10.00.

J. C. SCHMIDT, BRISTOL, PA.

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California Seeds '02

ASPARAGUS SPRENGERI, \$1.50 per 1000; \$6 per 5,000; \$10 per 10 000. PANSY, Giant Flowering, Mixed, trade pkt., 10c; 1 oz., \$1; per lb., \$10. BURBANK'S SHASTA DAISY, 100 seeds, 2c; 1000 seeds, \$2; per oz., \$18.

PLANTS. PLANTS.

ASPARAGUS SPRENGERI, from flats, \$1.00 per 100; \$7.50 per 1000; \$25 00 per 5,000.

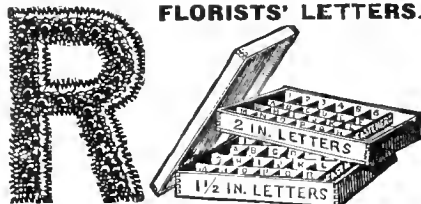
ASPARAGUS PLUMOSUS NANUS, nice 3 1/2-inch, \$6.00 per 100.

BURBANK'S SHASTA DAISY, the coming cut flower, nice to follow 'mums, 2-inch; \$10 00 per 100; 3 1/2-inch, in bloom, \$15.00 per 100.

CALIFORNIA CARNATION CO., LOOMIS, CAL.

Boston Florist Letter Co.

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00. Script Letters \$1. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager, 84 Hawley St., BOSTON, MASS.

A. HERRMANN,

Cape Flowers, all colors, Cycas Leaves, Metal Designs, and All Florists' Supplies.

Send for Prices.

404-412 East 34th St. NEW YORK.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25. Manufactured by W. J. COWEE, BERLIN, N. Y. Sample Free. For sale by dealers.



Invalid Appliance Co., MANUFACTURERS OF COLUMBIA PLANT TUBS (PATENTED)

"The kind that never fall apart." If your seedman doesn't handle them, order of us direct.

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THE

Gardeners' Chronicle.

A Weekly Illustrated Journal.

ESTABLISHED 1841.

The GARDENERS' CHRONICLE has been FOR OVER SIXTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, the information furnished is of such general and permanent value that the GARDENERS' CHRONICLE is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, \$4 20 per year. Remittances to be made payable to H. G. COVE. OFFICE:—

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MODEL EXTENSION CARNATION SUPPORT

Made with two or three circles. Endorsed by all the Leading Carnation growers as the best support on the market.

Pat. July 27, '97, May 17, '98

Prompt Shipment Guaranteed.

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226 North 9th St., BROOKLYN, N. Y.

LEADING Florists' Supply House M. RICE & CO.

Importers and Manufacturers, 918 Filbert Street, PHILADELPHIA, PA. Catalogue for the asking.

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Of Every Description.

When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

DUNNE & CO., 64 W. 30th St., New York. Telephone Call, 1700 Madison Square.

SPECIALTIES

ROSES, from 3-inch pots, CARNATIONS, for all delivery, CHRYSANthemUMS, SMILAX, VIOLETS. In Best Varieties

Prices Low. Send for List.

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ASPARAGUS Plumosus Nanus

Extra fine 2 1/2-inch, better than some 3-inch, \$3.50 per 100; \$30 per 1000. Extra fine 3-inch, \$5.00 per 100. Sample of either size, 10 cents free by mail. CASH PLEASE.

H. TONG, Wholesale Grower, Ashtabula, O.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

SCHLOSS 533 Broadway, NEW YORK CITY

BROTHERS RIBBONS & NOVELTIES

HEADQUARTERS FOR FLORISTS'

Telephone No. 3872 Spring.

**TO KILL ALL
Greenhouse Bugs
USE
"NICOTICIDE"**

Clean and harmless
as **Fumigant** or **Spra.**
Ask your seedsman
for it or write to

**The Tobacco Warehousing
and Trading Co.,**
1000 Magnolia Ave., - Louisville, Ky

NOVELTIES IN FLORISTS' SUPPLIES.

Franz Birnstiel,
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Baskets, Puerto Rico Mats, Cycles, Waterproof
Paper, Glass, China.
FOR THE WHOLESALE TRADE ONLY.

SOMETHING ENTIRELY NEW.

A Florists' Plate Book.

150 Plates and nearly 300 varieties for
\$3.50 or three for \$10.00.

You can't do business without it.
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**PURE, DRIED
SHEEP MANURE**

In ton or carload lots, for im-
mediate delivery. Address

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**The Florists' Hail Asso'n
Pays Losses Promptly.**

Reserve fund \$10,000. For particulars address
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Importer and Manufacturer of
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Looking for Fall Novelties?
LOTS OF THEM ON EXHIBITION.
108 W. 28th Street, New York.

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WILL soon be ringing,
whether we get coal
or not. Buy your
stock of scarlet im-
mortelle bells now.
They are beautiful, uniform and
perfect. There's money in hand-
ling them at present prices.

We have a new line of Straw
Baskets made especially for our
American Trade.

Wax Roses and other Conti-
nental Novelties. A very
attractive stock selected by our
Mr. H. B., while in Europe.

New Immortelles are on the
way and first shipment due to
arrive now.

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Plain, Fancy, Printed & Mounted,
Manufactured by

The Conley Foil Co.

521 to 541 West 25th St.,
NEW YORK.

**KIFT'S
Patent ADJUSTABLE VASE HOLDER**


No. 1.—Brass, nickel, 4 feet long, 6 clasps to each
rod. Price complete (with green or white tum-
blers) \$2.25. Price complete (with green or white
cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod,
brass and nickel, with three clasps for 5 to
6-inch pots, each \$1.75.

**KIFT'S PATENT Rubber Capped FLOWER
TUBES, 1 1/2-inch diameter, per 100, \$3.50.**
JOSEPH KIFT & SON, 1726 Chestnut St., Phila., Pa.

NOTICE.

THE MODEL PLANT STAKE COMPANY,
formerly of Brooklyn, N. Y., has removed
to 208 Jersey St., Harrison, New Jersey,
and is now The Parker-Bruen Mfg. Co. u

The Model Extension Carnation Support.



Flushing, Long Island,
Dec 11th, 1901.

MR. THERON N. PARKER,
Brooklyn, N. Y.

Dear Sir — I have used
your Wire Carnation Support
the last two years, in
all about 12,000. They fill
the bill in every particular.
Nothing could be more
satisfactory and would
give me a great deal of
pleasure if I can bespeak a
good word for you to the
trade and you are at liberty
to refer to me at any
time.

Very truly,
A. L. THORNE,
La Fayette, Ind.,
July 8th, 1902.

MR. THERON N. PARKER,
Harrison, N. J.


Dear Sir: — After using
your Model Carnation Support
in two of our houses
the past winter, we have
come to the conclusion that
it is perfectly adapted to
supporting carnations, and
shall use them on all our
plants the coming season.

We were much pleased
with the simplicity,
strength and neat appear-
ance of the support.

Yours truly
F. DORNER & SONS Co.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.

Nikoteen Aphis Punk It Burns



The most convenient way
of applying an insecticide
ever yet devised. No pans
required — No heating or
irons — No trouble — Cannot
injure the most sensitive
blooms — Very effective.
Price 60¢ per box of 12
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Liberal terms to florists who take subscriptions.

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Chicago, Ill., U. S. A.**

St. Louis.

STOCK SCARCE AND TRADE BRISK.—GOOD PRICES REALIZED.—AN AMATEUR EXHIBITION.—GOOD DISPLAY AT THE FAIR.

Flowers are somewhat scarce this week, especially white, due partly to the very dark and cold weather. Roses bring from \$3 to \$5. Beauties are to be had for from 75 cents to \$3 per dozen. Extra good carnations run as high as \$2.50 to \$3, but the majority go at \$2. Chrysanthemums are beginning to appear from the home growers and some very fine flowers are to be had at from \$1.25 to \$1.50 per dozen. Violets are showing a marked improvement and prices have gone up slightly. Considerable funeral work is reported from all sections of the city.

The Engelmann Botanical Club held a flower show in the basement of the High School and about 1,000 people were in attendance. The show was of fruits and wild flowers and flowers from the gardens of the school children who had taken prizes in a garden contest. The show was a decided success. A good display of fungi was also to be seen.

The St. Louis Fair was held this week and the floral display was of the best. Of the prizes already awarded Wm. Schray & Sons took twelve firsts, two seconds and one third, Youngs' taking two firsts and twelve seconds. The fruit display is very complete and some first-class articles are to be seen.

The Plant Seed Company intends to move to their new location at 615 North Fourth street sometime this month on first of next.

Otto Koenig, of the Koenig Floral Company, was presented with a baby boy the first of the week.

The decorations at the Veiled Prophet's ball were very fine and the local papers commented very favorably on them.

The deciding ball game between the Tessons and Bernings was won by the latter.

Visitors: Isaac Spacht, Jerseyville, Ill.; W. H. Gullett, Lincoln, Ill.; C. H. Foreman, Louisiana, Mo.; J. C. Vaughan and J. S. Wilson, Chicago. R. J. M.

ELKHART, IND.—H. J. Seale, in charge at Lawndale, the beautiful country home of C. G. Conn, the millionaire band instrument manufacturer, is adding a carnation house to the range of conservatories.

Miniature Baby Greenhouse



FOR CROWING SMALL PLANTS.

TWO SIZES, No. 1. 11 1/4 x 12 1/2 and 11 inches high. No. 2. 15 x 16 1/2 and 15 1/4 inches high. Are folded up in compact package of about one cubic foot; weight about 18 pounds.

SMALL OR NO. 1 SIZE.		LARGE OR NO. 2 SIZE.	
1 house.....	\$ 4.50	1 house.....	\$ 6.50
2 houses.....	8.50	2 houses.....	12.50
4 houses.....	16.50	4 houses.....	24.00
6 houses.....	24.00	6 houses.....	34.50

SIEBRECHT & SON, NEW ROCHELLE, N. Y.

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SAGO LEAVES, METAL WREATHS

our own manufacture, the best preparation only and guaranteed a first-class leaf. From 18 to 36 inches long, in lots of 50, \$4.50; per 100, \$8.00.

From 15c, up to the latest designs, as standing crosses, standing wreaths, and in fact any design that can be made up on natural flowers will be furnished in any color and style to suit your wishes.

ASK FOR MY ILLUSTRATED CATALOGUE OF METAL GOODS OR FOR MY ILLUSTRATED CATALOGUE OF DECORATIVE PLANTS.

FRANK NETSCHERT 34 Barclay Street, NEW YORK.
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Use our Patent **IRON BENCH FITTINGS and Roof Supports.**

THE **JENNINGS** IMPROVED **IRON GUTTER.**

IMPROVED VAPORIZING PANS VENTILATING APPARATUS.

For Tobacco Extracts, Etc. Send for Circulars.

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ESTABLISHED 1866 **EMIL STEFFENS** SUCC. TO N. STEFFENS. AND STEFFENS BROS.

MANUFACTURER OF

FLORISTS' WIRE DESIGNS & SUPPLIES

335 EAST 21ST ST. NEW YORK CITY.

CUT FLOWER BOXES

WATERPROOF. Corner Lock Style.
The best, strongest and neatest folding cut flower box ever made. Cheap, durable, handy. To try them once is to use them always.

DON'T USE OLD STORE BOXES.

If you have any doubt, send for samples, which speak for themselves.

Size No. 1.	3x4 1/2 x 16.	\$1.75 per 100; \$15.00 per 1000
" No. 2.	3x6 x 18.	2.00 " 18.00 "
" No. 3.	4x8 x 18.	2.40 " 22.00 "
" No. 4.	3x6 x 20.	2.75 " 25.00 "
" No. 5.	4x8 x 22.	3.00 " 28.00 "
" No. 6.	4x8 x 28.	3.75 " 35.00 "

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"Chemicals"

for making **LIQUID COMPOST.**
Dry powders all soluble in water. Composts cost less than 1/2c per gal. Correspondence invited.

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Materials of all kinds for

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ALSO HOT BED SASH, VENTILATING APPARATUS Hinges for Vent. Sash, Etc.

We send sketches, estimates and catalogue free.

Our Material and Workmanship are unexcelled.

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STANDARD FLOWER POTS!

Packed in small crates, easy to handle.

Price per crate	Price per crate	
1500 2-in., in crate, \$4.88	120 7-in., in crate, \$4.20	
1500 2½ " " 5.25	60 8 " " 3.00	
1500 2¾ " " 6.00	HAND MADE.	
1000 3 " " 5.00	48 9-in., in crate, \$3.60	48 10 " " 4.80
800 3½ " " 5.80	24 11 " " 3.60	24 12 " " 4.80
500 4 " " 4.50	12 14 " " 4.80	12 16 " " 4.50
320 5 " " 4.51		
144 6 " " 3.16		

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address
HILFINGER BROS. POTTERY, Fort Edward N. Y.
 Or **AUGUST ROLKER & SONS, New York Agents,**
 31 Barclay Street, New York City.
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KELLER BROS.

213-15-17-19-21-23 Pearl St.,
 NORRISTOWN, PA.

Manufacturers of Standard Flower Pots, red in color, equal to the best on the market; are 16 miles from Philadelphia, best of railroad connections. We give special attention to mail orders and make special sizes to order in quantities. A postal will bring prices and discounts.

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A. F. KOHR, 1521-23 N. LEAVITT ST., CHICAGO, ILL.,
 FOR PRICES OF

Standard Pots
 which for strength and porosity combined are the best on the market.

RED POTS

SAMPLE POT AND PRICE LIST
 ON APPLICATION.

C. C. POLLWORTH CO., MILWAUKEE, WIS.

Standard Flower... POTS

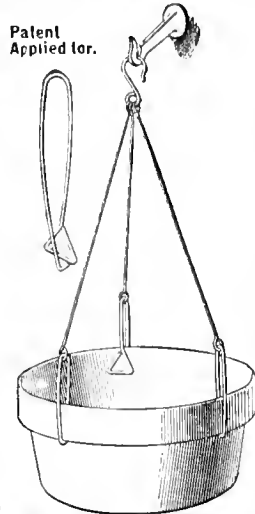
If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST, 28th and M Streets, WASHINGTON, D. C.

FOR SOMETHING NEW AND NICE

"Cluster of Roses Stationery"
 for Florists, is the latest. Both plain and in colors. Samples free by
DAN'L B. LONG, Publisher, BUFFALO, N. Y.

Kramer's Pot Hangers



THE neatest, simplest, most convenient and only practical device for converting ordinary flower pots into hanging baskets. They fit all standard made pots from 2 to 10 inches in diameter. The illustration shows how they are attached. Just the thing for hanging up ferns, begonias, etc. You can make room and money by their use. Try them.

Price with wire chain as shown in cut, \$1.00 per dozen by express. Sample doz. by mail, \$1.25.

I. N. KRAMER & SON, CEDAR RAPIDS, IOWA.



GEO. KELLER & SON, MANUFACTURERS OF FLOWER POTS.
 Before buying write for prices.
 361-363 Herndon Street,
 near Wrightwood Ave.,
CHICAGO, ILL.

THOSE RED POTS

"STANDARDS"
 FULL SIZE AND WIDE BOTTOMS.
 BULB PANS AND AZALEA POTS.
DETROIT FLOWER POT M'FG'Y,
HARRY BALSLEY, Rep. DETROIT, MICH., 490 Howard St.

FLOWER POTS ALL KINDS.

STANDARD POTS SPECIALTY
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Bargains FOR Florists.

We are headquarters for a general assortment of the necessary material and supplies that you are looking for. If you are about to improve or construct, consult us.

In connection with the dismantling of the Pan-American Exposition, we have for sale:

20,000,000 FEET of fine seasoned lumber, practically new, consisting of all sizes of joists, timbers, dressed and matched boards and flooring; also sash and doors.
50,000 FEET of roofing glass.

PIPE.

We are headquarters for pipe. We offer you:

100,000 FEET of 2 to 4-inch wrought iron, lap welded casing. We can furnish this material in three ways: Either with sleeve or jacket couplings, screwed ends and threaded couplings or with expanded cast iron flanges with bolts and nuts.

1,000,000 FEET of standard black wrought iron pipe, size ¾ to 12-inch. It is second-hand but has new threads and couplings and is in first-class condition.

1,000 TONS of galvanized wire 9, 10, 11, 12, 13, 14 and 15 guage.

50,000 FEET of 2, 3 and 4-inch cast-iron soil pipe and fittings.

100,000 FEET of garden hose, ¾ and 1-in.
75,000 FEET of cotton rubber-lined fire-hose, (rubber-lined in and outside), ranging in sizes 1 to 2½-inch.

VALVES and fittings of every kind.

BOX COILS for heating purposes.

RADIATORS, new and second-hand.

We also offer the following bargains in

Heating Boilers

50 CAST-IRON sectional heaters, capacity from 450 to 5,000 feet.

1 NO. 2 Standard Kroeschell hot water heating boiler.

FOUR 36x10 Horizontal Tubular.

FOUR 36x12 Horizontal Tubular.

FIVE 42x10 Horizontal Tubular.

FIVE 42x12 Horizontal Tubular.

SIX 48x14 Horizontal Tubular.

TWO 54x16 Horizontal Tubular.

FOUR 60x16 Horizontal Tubular complete with all fittings.

PUMPS of all Descriptions.

A carload of shovels and spades that we are selling at \$5.00 per dozen.

We carry a complete stock of hardware and farm implements, besides plumbing material of every kind.

Write for Catalogue No. 47.
Chicago House Wrecking Co., W. 35th and IRON STS., CHICAGO, ILL.

Pittsburg.

STOCK NOT OVERPLENTIFUL AND TRADE BRISK.—CLUB DISCUSSES THE DAHLIA.—DOINGS OF GROWERS AND OTHERS.—NOTES.

Chrysanthemums are in, Bergmann, Glory of Pacific and Merry Monarch. They are very satisfactory in price and quality. Double violets are also with us, as are orchids, which are very fine. The new rose, Canadian Queen, has been received, and it will undoubtedly be a very satisfactory addition, even better than Morgan. Beauties are very much improved, Meteors also. Brides and Bridesmaids are slow in coming up to the mark. Carnations are also improved. Some fine Goethes are on the market.

Blind Brothers will have a house of excellent Golden Wedding and a house of Timothy Eaton chrysanthemums. They also have half a house of Gloire de Lorraine begonia. Blind Brothers have made remarkable strides in the six years they have been in business. In that time they have erected 50,000 feet of glass and anticipate further expansion in the future.

J. B. Murdoch & Company are delighted with the fine progress of their carnation plants. The entire stock is very vigorous and perfectly free from disease. Mr. Murdoch states that there are already over 250,000 buds in sight.

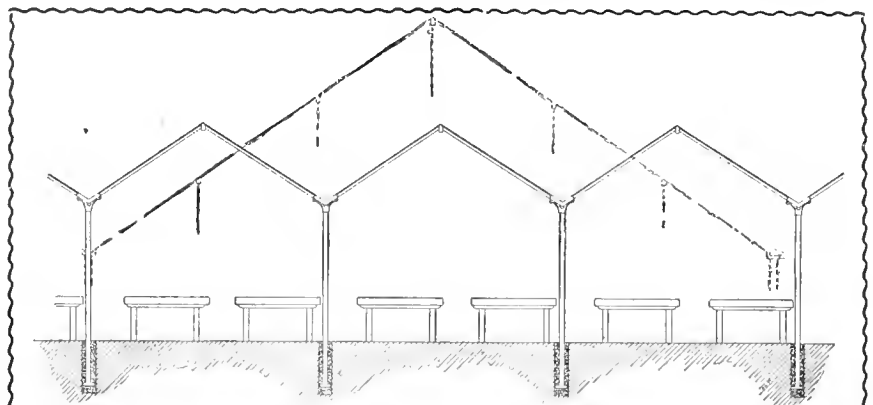
The Pittsburg and Allegheny Florists' Club held its monthly meeting on October 7, the discourses of the evening being confined to the dahlias, of which there were several exhibits. Thirty members were present.

George W. Goldner, of Reed & Keller, New York, was in a railroad wreck on October 3, near New Castle, Pa. His samples were destroyed but Mr. Goldner escaped injury.

W. L. Campbell, of Castle Shannon, will cut over 2,000 gladioli this week and the quality will be high.

Dave Geddes' new wagon was demolished in a runaway on Saturday.

John Ferguson has a house of fine Sprengeri. E. L. M.



View of a piece of ground 40 ft. respectively 41 ft. 6 in. in width, covered by one roof (old style), and also by three sections of our Patent "Short-Roof" Construction. Compare headroom over benches and number of supports.

SHORT-ROOF GREENHOUSES. (Patented.)

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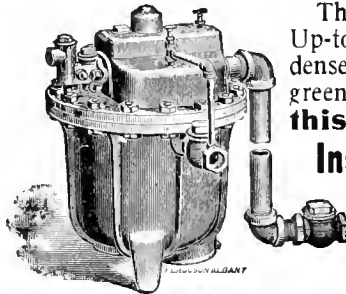
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Manufacturers of California Red Cedar and Louisiana Cypress Greenhouse Material.

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Steam Traps SAVE COAL



This is the Return Steam Trap used by the Up-to-date Greenhouse men to return the condensed water from the heating coils in their greenhouses. **Have been in use for this purpose over thirty years.**

Insures an Even Temperature.

Send for Red Catalogue.

Albany Steam Trap Co.

ALBANY, N. Y., U. S. A.

CYPRESS



Green House Material

Hot Bed Sash. Red Cedar Posts.

Write for circulars or estimate.

LOCKLAND LUMBER CO.,
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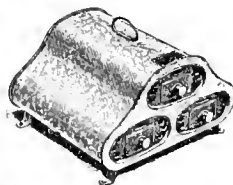
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Window Glass, Paints and Putty,
Greenhouse Glass a Specialty.

59 West Randolph St., CHICAGO.

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WATCH Future Advertisements.

Are Seasonable Now.

The Standard

The lightest running, most rapid and powerful ventilating machinery in the market.

DUPLEX GUTTERS

Made of wrought or cast iron with self-adjusting sash bar clips. The only Orip Proof Metal Gutter offered to the public. Send for my catalogue free.



E. HIPPARD, Youngstown, O.

**GOOD A GENERATION AGO !
Good Today! Good Always!**

The WEATHERED BOILER

and the principles on which it is constructed have stood the test of years. If you want a reliable heater, there are none as good as the WEATHERED. Endorsed by hundreds of Florists. Send for descriptive list.

Thos. W. Weathered's Sons,
56 MARION ST., NEW YORK CITY.

Greenhouse Piping Preservative

SOMETHING NEW.

For finest effects, most durable finish and satisfactory results,

LUCAS RADIATOR BRONZING LIQUID PAINT

has nothing to equal it on the market. It is an up-to-date specialty for preserving and beautifying greenhouse piping that is making a big hit wherever used.

Applied similar to other paints, the bronze being dusted on. Samples and prices free for the asking. Write to-day.

John Lucas & Co.
Paint, Varnish and Color Mfgs.
New York. Philadelphia. Chicago.



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GREENHOUSE ARCHITECTS AND BUILDERS.
HEATING ENGINEERS.

Greenhouse Boilers.

Iron Bench Frames.

Send for catalogue and latest prices.

116 So. 17th St., Philadelphia, Pa.



New Twin Section Boiler.

Clear Gulf CYPRESS GREENHOUSE MATERIAL. Glass AND Boilers

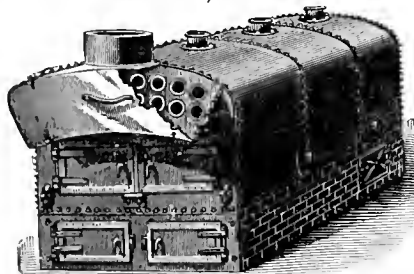
S. JACOBS & SONS, 1365 to 1373 Flushing Ave., BROOKLYN, N. Y.

Estimates furnished for Erecting.

Send 4 cts. for Boiler Catalogue.

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KROESCHELL BROS. CO. IMPROVED Greenhouse Boiler, 45 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

Horticultural Builders & Heating Engineers PHILLIPS MFG. CO., Jersey City, N. J.

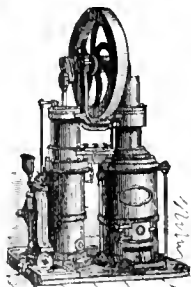
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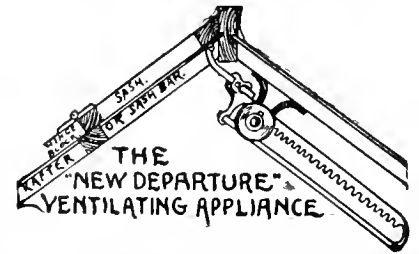
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THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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AMERICAN ROSE SOCIETY.

Annual meeting at call of executive committee, LEONARD BARRON, 136 Liberty St., New York, secretary.

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Hydrocyanic Acid Gas in Greenhouses.

Some tests of hydrocyanic acid gas as a greenhouse fumigant were made under my direction by C. W. Warburton in the spring of 1902, as the basis of a graduating thesis at the Iowa State College. A fumigation box was built in the basement of the horticultural building for experimental work, and for the practical use of the gardener. Hydrocyanic acid gas had been used in the greenhouses with varying results. The houses contained many kinds of plants, some much more susceptible to injury than others, and when gas of sufficient strength to kill all the insects was used the more tender plants suffered. On the other hand, but few plants might be infested, and to destroy the insects on these the entire house had to be fumigated, which necessitated additional expense and danger. Neither would the size of the houses permit of them being quickly ventilated.

Another advantage of the fumigating box is that one calculation determines the amount of potassium cyanide and sulphuric acid necessary to produce the strength of gas wanted, and when they are purchased they can be put up in packages the right size to fumigate the box.

For anyone who has a greenhouse in which is grown a mixed collection of potted plants, I believe it will be found both practicable and profitable to provide a fumigating box to which any infested plants can be quickly transferred and exposed to the gas. The box in question is simply a closet three feet wide, six feet long, and the height of the ceiling. An outside window opens into the box and is hinged and so arranged that it can be opened from the outside of the box, allowing it to be quickly ventilated.

All the tests were made at night as previous experiments had proven conclusively that all plants are less susceptible to injury in darkness than in sunlight. In the experiments three objects were in view: (1) to determine how temperature influenced the effect of gas on the plants exposed; (2) to determine the effect of exposing plants to a strong gas for a short time; (3) to determine the effect of exposing plants to a weak gas (the "dilute method") for a long period. The following results were obtained:

EXPOSURE AT LOW TEMPERATURE.

The plants exposed included *Cyperus alternifolius*, *Artemisia maritima*, *Colceus* of several varieties, *Calla Ethiopica*, *nephrolepis*, *Cineraria hybrida*, *acaly-*

phas of several species, *Erythrina Crista-galli*, oleanders, *Kentia Forsteriana*, arecas, *Asparagus Sprengeri*, and several other varieties.

They were exposed for twenty minutes, using the gas at the rate of 0.15 grammes per cubic foot, at a temperature of 55°. None of the plants were injured by this exposure. The green flies which infested the callas and other plants were all killed, as were most of the mealy bugs. It was found necessary for effective work to break up the masses of mealy bugs in the axils of the leaves of the cyperus and on the oleanders. The spider on the erythras were practically uninjured. The scales with which the ferns and palms were affected were practically all killed by this exposure. The old mealy bugs were found to be very much harder to kill than the young ones. The work done with this exposure and at the temperature given was very satisfactory in its results.

EXPOSURE AT HIGH TEMPERATURE.

The same conditions existed in this experiment as in the former one except that it was performed at a temperature which ranged about 66°. A large number of coleus plants infested with mealy bugs were treated. The plants were small, but were well branched. The mealy bugs were greatly reduced in numbers. The plants were uninjured except for an occasional branch in which the cells had apparently collapsed. These branches afterwards dropped off. These plants showed more injury than similar ones exposed at lower temperatures.

HEAVY EXPOSURE FOR SHORT TIME.

Previous work in the greenhouse had shown that cacti of different species infested with the cactus scale (*Diaspis cacti*) and with mealy bugs were liable to injury if exposed to 0.16 grammes of cyanide per cubic foot for twenty minutes. A test was made, using 2 grammes per cubic foot, with an exposure of fifteen minutes. This was found to be very effective in killing the scale, and since the plants were uninjured, is to be preferred to the ordinary strength. The plants used in this experiment embraced species of *cereus*, *echinocereus* and *opuntia*. The differences in effect of this treatment and the ordinary one used in the greenhouse were no doubt largely due to the much lower temperature (a variation of 25°) and to the greater rapidity with which the gas could be removed from the box than from the greenhouse.

The method found so effective on the cacti was tried on several species of

palms and other stove house plants. The plants exposed were arecas, Kentia Forsteriana, nephrolepis and agaves. The plants were infested with scale of various kinds, the agaves being especially bad shape. The insects were all killed, and the agaves were also badly burned. The leaves showed no sign of injury for several days, but later turned yellowish-white in color and fell away. The other plants were not injured.

LIGHT EXPOSURE FOR LONG TIME.

The Henenway "dilute method" of fumigation was tried on a number of plants, but was not satisfactory. The plants showed more tendency to injury than when treated with the common method, and the insects were not much affected. The gas was used at the rate of 0.02 grammes per cubic foot and the temperature varied from 55° to 50°. The plants subjected to treatment were coleuses, acahyphas, oleanders and cyperuses. Several trials were made with this method but it was rejected as unsatisfactory.

Chrysanthemums, which were found to be especially susceptible to injury, were exposed to 0.15 grammes for twenty minutes, and to 0.2 grammes for fifteen minutes. These plants were badly infested with black aphid. The aphid were all killed by the treatment but the young growth of the plants was also burned. Only a few of the upper leaves of the plants were affected, and the injury was less than for the aphid. The sprouts from old plants, which had been growing under the edge of the greenhouse bench, were more severely injured than were rooted cuttings from the bench. The sprouts were softer, and had larger pores than the cuttings, and hence were more subject to injury.

SUMMARY.

The statement made by Messrs. Woods and Dorsett that "Plants were less injured by a short exposure to a relatively large amount of gas than they were by a long exposure to a relatively small amount, and that, on the other hand, a strong dose for a short time was most effective in killing insects," was fully borne out by the experiments. The "dilute method" of fumigation proved unsatisfactory. It was found that most plants are unable to withstand an exposure greater than 0.15 grammes per cubic foot for twenty minutes. The cacti and plants of similar nature were found less liable to injury than the rapid-growing, "leafy" plants. In most cases the injury resulting from the fumigation was less severe than that resulting from the attacks of the insects. The green and black aphid were found to yield most readily to treatment of all the common greenhouse pests. The mealy bugs and scales were only killed on application of gas more nearly approaching the danger line for plants, and the red spider cannot be kept under control by this method. On the whole the method is a very satisfactory one.

The main difference between the action of 0.15 grammes for twenty minutes and 0.2 grammes for fifteen minutes is that the latter density is strong enough to kill all the insects, while the gas may be removed before it injures the plants. The first strength mentioned will probably prove more satisfactory for general greenhouse work because of the time required for diffusion and ventilation, while the latter will be found advantageous for use in small and easily ventilated fumigating boxes like the one used in the experiment.

A factor which must be taken into consideration quite strongly is the temperature. At the lower temperatures the pores of the plants are more closely shut and the gas can penetrate to a less extent and hence can work less injury. It is advisable, therefore, to do the work at a temperature as low as may be obtained but probably not lower than 50°.

H. C. PRICE.

Isaac Kennedy.

The secretary of the Cleveland Florists' Club started in the greenhouse business at an early age, with his father in Greenfield, Mass., and worked in some of the principal rose growing establishments in Massachusetts until 1880, in which year he removed to Philadelphia and entered the employ of Robert Scott & Son, where he held the position of foreman for upwards of ten years. Three years were



ISAAC KENNEDY.
(Secretary Cleveland Florists' Club.)

spent in partnership with George Campbell, on Germantown avenue, Philadelphia, and six years more as foreman for John Burton, Chestnut Hill, president of the S. A. F. Mr. Kennedy removed to Cleveland in 1900, where he became a member of the J. M. Gasser Company, recently selling out his interest in that firm. He has been an active participant in all the affairs of the craft and the recent prosperity of the Cleveland Florists' Club is as largely attributable to his energy as to any other factor.

ROSES.

NOTES ON SEASONABLE TREATMENT.

All the young stock should now be in a vigorous state of growth and at this time of the year our careful attention is needed in order to succeed. The days are becoming shorter and the temperature is falling. As the plants are obliged to become accustomed to these conditions we should help them as much as possible.

Give plenty of air and thereby obtain a healthy, hard growth which will ward off mildew to a great extent. Of course judgment should be used as regards ventilating. As a general thing the temperature should not be allowed to go above 72° to 74° on Bride, Bridesmaid and

Golden Gate, but occasionally we have a day which is very windy, with the sun shining brightly. On such a day as this it is better to allow the temperature to rise a little than to ventilate fully and thereby cause a strong draught. It pays to have a house under the care of a careful and observing man. Such a man will be able to help the stock in such cases. Although a thermometer is a safe guide in regard to heat and cold, we are sometimes obliged to vary from it when we see that our plants are in need of a little different treatment.

With coal as scarce as it is at present it is a difficult matter to say anything in regard to heat, but nevertheless I will give my advice on the supposition that one is able to keep steam up, as this weather demands heat for roses if one wishes to grow stock which will bring good prices. For Bride, Bridesmaid and Golden Gate 58° to 60° is the proper night temperature, allowing it to rise to 70° during bright days, when you can ventilate freely.

For Liberty I should advise no lower than 62° at night. Of course this necessitates growing this rose otherwise than in a house with Bride, Bridesmaid or Golden Gate. If grown with these varieties it is very liable to go dormant and prove a failure. For a day temperature 75° is sufficient. This rose has proved itself to be a stubborn one to force and it is doubtful if it is a paying variety.

Many growers are going back to Meteor as a red rose, having become convinced that there is more money in it than there is in Liberty. The temperature for Meteor should not be lower than 65° at night in order to avoid buds which come with a blue color and what are called "bull heads" in shape. This rose has much to commend itself in spite of all that has been said during the Liberty boom. It does better after the days become longer and as a summer rose it is an improvement over Liberty, as it is a more double flower.

American Beauty, compared with our other winter roses, takes more time than any of the others in order to grow it properly. It is one which pays well in most localities when doing well, but unless one can obtain first-class flowers it is a failure. The most successful growers of Beauties are, I believe, those who devote their whole attention to this one rose. Although I have seen very good stock in houses where the middle benches were used for Beauty and the side benches for Bride and Bridesmaid, this plan is not always advisable, as American Beauty is very often in need of special treatment, such treatment, in fact, as would be detrimental to the Brides and Bridesmaids.

During the dark days the temperature and watering should have the very best of attention, such attention as only a careful and observing man can give. After a man has become accustomed to the soil in his houses he can tell a great many times whether it is in need of water or not by the appearance of the soil, but it is not always safe to go by the appearance only, as when syringing is done frequently the top of the soil is liable to appear moist while that near the bottom of the bench is too dry to promote healthy growth. A careful grower tests the soil often by digging down here and there through the house, so that he may know the exact condition of the soil around the roots.

Now that we are using more steam heat the syringing is valuable to the plants to promote a healthy, moist



THE ART INSTITUTE AT CHICAGO.

(Where the Horticultural Society of Chicago and Chrysanthemum Society of America hold their joint exhibition, Nov. 11 to 15, 1902.)

atmosphere, as well as to check the red spider. Syringe only on bright days, unless there is spider in the house, and in order to keep this pest in check direct the stream upwards, so it will strike the leaves from underneath, as this is where the spider does its work.

The first few crops to be cut are liable to come so that we cut quite heavily for a short time and then there is a check and a period during which the cut is very light. It is at such a time as this that a careful waterer will aid the plants. During the time the crop is on, the plants will use a liberal amount of water, but after the crop is cut off be careful not to water as heavily, as they do not require it.

R. I.

CARNATIONS.

SULPHUR-LIME TREATMENT FOR STEM ROT.

In the AMERICAN FLORIST for October 4, 1902, page 344, E. O. Orpet reports an instance in which sulphur and air-slaked lime placed around the stems of carnations seemed to prevent stem rot. For several years past this treatment has been occasionally recommended for carnation stem rot, but so far as I know its value has not been thoroughly tested by experiment.

In the first place, it should be understood that carnation stem rot is of two principal kinds. (1) The kind which causes the whole plant to wilt and die suddenly by rotting the stem just below the surface of the soil. This disease is caused by the fungus *rhizoctonia* and may be called *rhizoctonia* stem rot. (2) The kind which kills the plant gradually, a branch at a time. In this kind of stem rot the stem below the surface of the soil remains sound until long after the death of the plant. It is caused by the fungus *fusarium* and may be called *fusarium* stem rot. These two

kinds of stem rot should be carefully distinguished because they are entirely different diseases and may require different treatment. They seem to be about equally common.

In the autumn of 1898 the New York Agricultural Experiment Station made some experiments on the treatment of the *fusarium* stem rot of carnations at Floral Park, N. Y. A bench seventy-two feet long by two and one-half feet wide was filled with soil in which many carnations had died of *fusarium* stem rot the previous season. On September 7 the bench was set with 300 carnation plants of the variety Uncle John; 100 were set shallow, with the roots barely covered, 100 were set so deep that in many cases the soil came above the point of branching, and the remaining 100 were treated with flowers of sulphur and air-slaked lime as follows: Immediately after the plants were set the soil was removed from around the stems of the plants and 6.87 grammes (a heaping tablespoonful) of a mixture of sulphur and lime, equal parts, placed around the stem of each plant.

By November 4, less than two months after benching, the majority of the plants were more or less affected with *fusarium* stem rot. The actual number of plants either dead or dying was as follows: Plants treated with sulphur and lime, 81; deep-set plants, 77; shallow set plants, 77. By January 1, 1899, there remained only three living plants in the bench of 300. The destruction was complete and there appeared to be no benefit whatever from the use of the sulphur and lime and no difference between shallow-set and deep-set plants.

That the plants were not badly diseased when benching is shown by the fact that 200 other plants of the same lot were set in the opposite bench in the same manner (100 shallow and 100 deep)

and they produced a good crop of blooms. Only five died.

While the results of this experiment show plainly that the sulphur-lime treatment is a failure for the *fusarium* stem rot it does not necessarily follow that it would not prevent the *rhizoctonia* stem rot. Its value for *rhizoctonia* stem rot can be determined only by experiment.

F. C. STEWART.

TEMPERATURE AND VENTILATION.

Now that the heating of our houses is to become a part of our daily routine, we have another detail of carnation culture that requires careful attention and watching, namely the temperature of our houses. Not all but a goodly proportion of the trouble caused from sleepy carnations is due to temperature changes, or to the fact that the temperature is either too high or too low. Any one of these three things will cause a tendency to sleepiness in the blooms.

Extreme changes, such as allowing the house to run up to 80° or 90° during the day and then down to 45°, or even to 40°, at night will not only induce sleepiness but will also bring a good big percentage of bursted calyxes. There is not so much damage caused by the day temperature running up to 80° or a little over on a bright day if there is plenty of ventilation on the houses, but without such ventilation this temperature is ruinous, and the night temperature should then range from 45° to 55°.

A comparatively safe rule to follow is to have the difference between the day and night temperatures run from 15° on a cold; cloudy day to 25° or 30° on a bright, sunny day. The last figures should only be used for very bright days, with an abundance of ventilation on the houses. Where the houses are partly shaded the first figure should be used and on a very cold, dark day the difference

should be rather less than more than 15°. This variation has to be made according to the weather conditions, the location of the houses and the needs of the variety in question.

Keeping the temperature too high, either day or night, or both, will produce soft flowers and weak stems. The weakness of the stems can be overcome by what might be called the intensified fertilization employed by some growers, but the soft flowers will go to sleep, often before they leave the retailer's hands, and the grower will have one buyer less for his flowers.

If they are grown too cool they will not stand the warm temperature of the store when they are taken from the ice box and will certainly not stand the atmosphere they are likely to get in the home of the last purchaser. Getting the temperature too low will also bring a big lot of bursted calyxes, not only on those varieties that are subject to this trouble, but even on the iron-clads as well.

all those that do split their calyxes will give the best results in a temperature of 50° to 55°, keeping as near the lower mark as the requirements of the variety will stand. These temperatures refer to the night temperature. Varieties that come slowly and produce short-stemmed flowers will bring better returns if grown in the higher temperature, thus getting the crop into bloom when it is wanted. My experience with all varieties similar in color to Daybreak shows them to do best in the lower temperature.

Ventilation is a very important factor in making these regulations and where the higher temperature is used, ventilation should be very carefully attended to and put on the house a portion of each day, regardless of the weather, so as to change the air in the houses at least once every twenty-four hours, even if it does take some extra firing to keep the house right while the ventilation is on. When the lower temperature is used it may not be absolutely necessary to have the ventilation on every day but it should be on at

least once in every two days regardless of the weather, and of course in both cases it should be on whenever the house gets up to its 70° or 80°, as the case may be.

Where the grower has a number of varieties in one house a fairly safe rule is 50° at night and 70° during the day.

ALBERT M. HERR.

WITH THE GROWERS.

POEHLMANN BROS., MORTON GROVE, ILL.

There are few places in the vicinity of Chicago more worthy of a visit than that of the Pochlmann Bros. Company, at Morton Grove, a short distance from the city, on the Chicago, Milwaukee & St. Paul Railroad, and consisting of some 300,000 square feet of glass. Few equal and none excel this establishment in the production of first-class flowers. Soil, location, and shipping facilities are of the best. The main section of the establishment is within a stone's throw of the railroad station, where all freight can be handled in a most expeditious manner, which is a very important factor in the flower producing business in these days of keen competition.

August Pochlmann, the junior and very active member of the firm, which consists of three brothers, takes the visitors in charge. The carnation range of twelve houses was first visited. These plants had suffered considerably from excessive rains during the summer season, and Mr. Pochlmann said they were not nearly as good as last year but, considering the siege they had gone through, were looking remarkably well and gave promise of making good shortly.

The fourteen chrysanthemum houses were next inspected, and one could not help but admire the evidence of excellent culture in their make up. Clean, healthy, bright foliage, and uniformity of size in the varieties was the rule. A house of Col. Appleton gave promise of being extra fine. Nearly all the early kinds had been disposed of and the houses were being prepared for carnations. Those houses containing the later varieties are to be used for bulbous stock and pot plants of various kinds.



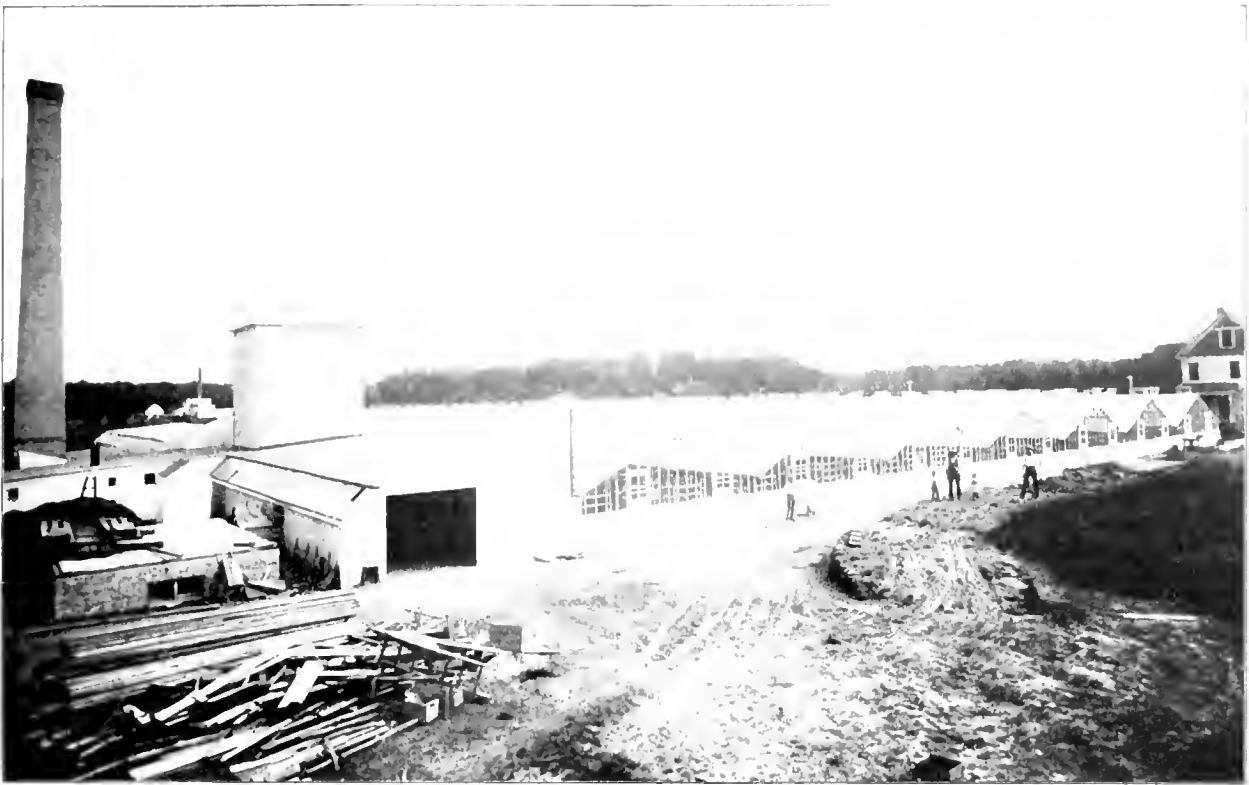
AMERICAN BEAUTY ROSES AT POEHLMANN BROS. CO, MORTON GROVE, ILL.

In an article several years ago there was a strong argument made for growing carnations in a higher temperature, the writer claiming that the time to have carnations is when they are wanted, not when everyone has them to burn, and he advocated something like a rose temperature for them. There is no question but that many of our newer carnations do best in what would have been considered some years ago a very high temperature for them; neither is there any doubt but that many of our carnations are produced in a temperature that is too high for the production of long-keeping blooms. It is up to each grower to strike the happy medium that will produce a fair crop of good keeping, high-grade flowers. The man who sacrifices quality for quantity will soon find his flowers traveling in the second or third class grade.

It is simply impossible in an article of this kind to lay down any set rules for carnation culture, even in reference to such a matter as the temperature of the houses, but a little observation on the part of each grower will soon enable him to govern his place so as to obtain the best results. All such varieties as do not split their calyxes can usually stand 45° to 50°, with a preference for the 45°, and



CONNECTING PASSAGeway IN THE NEW RANGE OF POEHLMANN BROS. CO., MORTON GROVE, ILL.



NEW RANGE OF POEHLMANN BROS. COMPANY, MORTON GROVE, ILL.

I might mention here that 30,000 lilies are grown, *Harrisii* and *longiflorum*. In addition to these 160,000 Dutch bulbs are handled, besides a large quantity of French bulbs and freesias, all of which means an enormous amount of work to handle and flower successfully. A large amount of *stevia* is grown and is flourishing. Two houses are devoted to *mignonette* and it proves a paying investment when done right.

The new range of detached Beauty houses containing 30,000 plants came in for inspection, and right here is to be seen the evidence of careful cultivation, for a more uniformly better lot would be hard to locate anywhere. No indications of blackspot, mildew or yellows were to be seen. What proved to be the most interesting feature was the excellence of the plants which had been carried over the second year. The plants had all been cut back and replanted into fresh soil. This, in itself, is a very doubtful experiment, but here it seems to be a success, yet, Mr. Poehlmann is not in favor of the universal adoption of this plan, as the one-year plants are more certain to give good results in midwinter. The side benches in this range are planted to Brides and Bridesmaids, which are in fine growing condition and producing excellent results.

The plan of detached houses for Beauty growing is considered by this firm to be better than the connected plan, inasmuch as the shade is reduced to a minimum and the sun's rays have a more beneficial effect upon the soil. Better results are thought to be obtained in midwinter, but this plan is open for discussion and it is a difficult point to decide, as equally good results have been obtained by the connected method of construction. However, seeing is believing, and the excellence of the stock grown here would seem to warrant this firm in building their Beauty houses on these lines.

Another section of the establishment some little distance from the main part, presided over by Adolph Poehlmann, was visited. Here nothing but tea roses are grown. This range consists of about 50,000 feet, all connected and heated by steam and hot water. The stock here, as in the old place, was in the same excellent condition and gave promise of producing an abundance of bloom throughout the season. Here preparations are being pushed for erecting next year an additional range of 116,000 feet. This will give a total of over 400,000 square feet of glass. Here is a firm which started ten years ago with a couple of small houses and a limited capital, erecting yearly ranges of 100,000 feet of glass and making good returns on their investment. Truly, the western grower is a hustler. John Poehlmann, the third member of the firm, presides over the selling department in the Chicago market in a way well known to the trade. ECHO.

Rambles With St. Louis Growers.

A visit to the greenhouses of Wm. Schray & Sons found things in fine shape. Although three wagons had taken the best plants on the place to the Fair, which was being held that week, there was enough left to fill all available space, so that they were not missed. They have a nice lot of poinsettias in pots, and smaller ones in pans, that have a good color and will be in fine shape for the holiday trade. In the same house are some very fine plants of *Begonia Gloire de Lorraine*. Some good plants of *Farfugium grande* occupy one corner of this house.

Chrysanthemums occupy their usual amount of space in this establishment, which is three houses, and a very promising lot they are. Timothy Eaton and Col. Appleton are fine and, as Julius

Schray says, it gives a man a pleasure to have a house full of them. Other varieties come in for their space and are very good. One house is almost entirely devoted to Mr. Schray's seedlings, of which he has in the neighborhood of seventy-five to 100. One, a yellow, which by the way is the first yellow seedling that he has ever raised, is very promising, as it has a heavy stem and good foliage. Another is a pink, resembling the pink that was sold to Mr. Hill last year. Another has the foliage of Mrs. E. D. Smith, but the color is not visible as yet. There are, besides, several good sports that will be tried.

Some very fine ferns are to be seen here. Boston ferns are in a healthy condition. *Adiantum cuneatum*, of which they have a fine lot, will only do well in one house on the place. They have also a large variety of ornamental and useful ferns. A bench of young *Kentia Belmoreana* is in good shape. This is one of the few places in this city that grows orchids.

The few roses grown are in fine shape and the same is true of the carnations. The *Harrisii* lilies that are already taken in are strong and healthy. They will grow quite a number of them this winter. A new boiler of about twenty-five horse-power will be put in this week to replace one of the old ones. This place is much scattered, being made up of sixteen houses all told.

A visit to F. J. Fillmore, found him celebrating his fifty-third birthday by working hard at making up funeral designs with his better half and also preparing to send his twin Florida boilers into exile in the woodshed. These boilers used to be the pride of Mr. Fillmore's heart, and many a joke has been made in the Florists' Club concerning them, but now that hard coal is so very expensive he has taken them out and has installed two Huxton boilers, one of thirty horse-power, nicknamed "Jumbo"

by him, and a smaller one for his rose house, called "Midget." "Jumbo" is already connected and is in good working condition. His greenhouses make their usual neat and clean appearance and the plants are in the same condition. His carnations are exceptionally good, especially Flora Hill, which is now producing nice large flowers. His roses are coming on strongly and some few are allowed to bloom. He has very few chrysanthemums this year and they are mostly in pots, clean and healthy.

Mr. Fillmore has a very odd chair, sitting in his office, with a high back, and a writing board attached to the right arm. When asked concerning it he will tell you that it was made in 1820 and was the property of the founder of the Missouri Botanical Garden, the late Henry Shaw. It was presented to him lately by Mrs. Edon, the housekeeper for Mr. Shaw. R. J. M.

Gardeners' Gossip.

At the last meeting of the Gardeners' and Florists' Club of Boston E. O. Orpet gave an interesting talk in an informal way on subjects that are of everyday interest to both branches of the craft, telling of the value of pedigree selection of violet stock as demonstrated by plants of the third generation and the efficacy of Ivory soap as a remedy for red spider on violets and mildew on roses as well as for all species of aphids.

The stem rot of gardenias and carnations he said was checked to a considerable degree by the use of lime and sulphur, but if it is inherent to the stock, it is impossible to eradicate it except by careful propagation, and the value of the latter system was impressed upon the hearers as one of the vital points to be observed.

The much discussed Shasta daisy was stated to be a desirable herbaceous plant as seen among forms raised from seed. By early sowing plants were obtained that bloomed freely all the season, but among them were many forms no better than the common white weed of the

pastures, while others were far superior even to *Chrysanthemum maximum*, which is no doubt concerned in the origin of the Shasta daisy. These, when propagated, will form an interesting and valuable addition to hardy border plants, as light frosts do not injure the late blossoms which at this time are most useful.

Where mushrooms are grown it was advocated to plant spawn early in August in benches where mignonette is sown, the soil being rich in nitrogen and the temperature of beds at that season warm enough to start the spawn and a crop will ensue more or less all winter, of a quality much superior to those grown under benches in the usual way.

An interesting and instructive discussion was the result of the condemnation of leaf mould as a potting material for orchids, the result of its use being the sure introduction of earth worms, gall flies and fungoid troubles as well as the extreme care needed to avoid over watering. Orchid cultivators were urged to begin raising plants from seed to get a race of plants that will produce cut flowers at times when the supply is short from the imported varieties, and Mr. Orpet told of the experiments being started elsewhere along these lines to supply the New York market, where orchids brought 75 cents per bloom at wholesale during the Newport season. The remarkable fact was brought out that orchids raised from seed, while always flowering at their own time, quite often produced two crops a year.

Among other interesting points the speaker very strongly advised the craft to take up the study of bees as of great interest on account of their wonderful and intelligent system in everything pertaining to their government, also as a source of profit but most of all for their value in the garden as fertilizers of fruit bloom, more especially in a wet season like the past. It was pointed out that by the culture of Italian strains the danger of stings to the operator is reduced to nothing.

The gossip was altogether a very interesting discussion of topics that are of everyday interest and provoked a discussion that was of benefit to all and the wish was voted that at some future time it might be continued.

A Decorated Automobile.

The picture of a decorated automobile is from a photograph taken on October 6, at Washington, D. C., during the parade of nearly 100 decorated self-propelling vehicles which was a feature of the great encampment of the G. A. R. The carriage in question won a silver loving cup as the most handsomely decorated of any in the line. The work was done by A. Gude & Brother and in the vehicle were Col. C. E. Wood, its owner, and Wm. F. Gude, ex-president of the S. A. F. and president of the Business Men's Association of Washington. The auto was a bower of roses, chrysanthemums and carnations. The front was completely covered with Kaiserin and American Beauty roses and the sides were gay with carnations and Asparagus Sprengeri, with huge satin bows and streamers. The rear of the carriage was banked with red roses and white chrysanthemums, while the wheels were of red roses.

Coming Exhibitions.

[Secretaries are requested to supply any omissions from this list.]

BOSTON, MASS., November 6-9, 1902.—Chrysanthemum show Massachusetts Horticultural Society. W. P. Rich, Sec'y, Horticultural Hall, 300 Massachusetts avenue.

CHICAGO, ILL., November 11-15, 1902.—First annual exhibition Chrysanthemum Society of America and twelfth annual exhibition Horticultural Society of Chicago, to be held jointly. E. A. Kanst, Assistant Secretary, 5700 Cottage Grove avenue, Chicago.

KANSAS CITY, Mo., November 3-8, 1902.—Flower show Convention Hall Directors, Kansas City, Mo.

LENOX, MASS., October 23, 1902.—Fall exhibition Lenox Horticultural Society. F. Herremans, Sec'y.

LOUISVILLE, KY., November 12-15, 1902.—Chrysanthemum exhibition Business Women's League. H. Nabz, superintendent, Louisville, Ky.

MADISON, N. J., November 6-7, 1902.—Seventh annual flower show Morris County Gardeners' and Florists' Society. C. H. Atkins, Sec'y, Madison, N. J.

MARSHALL, TEX., November 13-14, 1902.—Annual flower show East Texas Flower Association. W. L. Martin, Sec'y, Marshall, Tex.

NEW HAVEN, CONN., November 11-13, 1902.—Annual flower show New Haven Horticultural Society. Thomas Pottit, Sec'y, 316 Orange street.

NEW YORK, N. Y., October 30-November 6, 1902.—Annual exhibition New York Florists' Club. John Young, Sec'y, 51 W. Twenty-eighth street.

PHILADELPHIA, PA., November 11-15, 1902.—Annual autumn exhibition Pennsylvania Horticultural Society. David Rust, Sec'y, Horticultural Hall, Broad street below Locust, Philadelphia.

PROVIDENCE, R. I., November 13-14, 1902.—Chrysanthemum exhibition Rhode Island Horticultural Society. C. W. Smith, Secretary, 27-29 Exchange street, Providence.

ST. PAUL, MINN., November 10-12, 1902.—Chrysanthemum and orchid exhibition Ladies Auxiliary of the Northwestern Manufacturers' Association. Mrs. A. P. Moss, Sec'y.

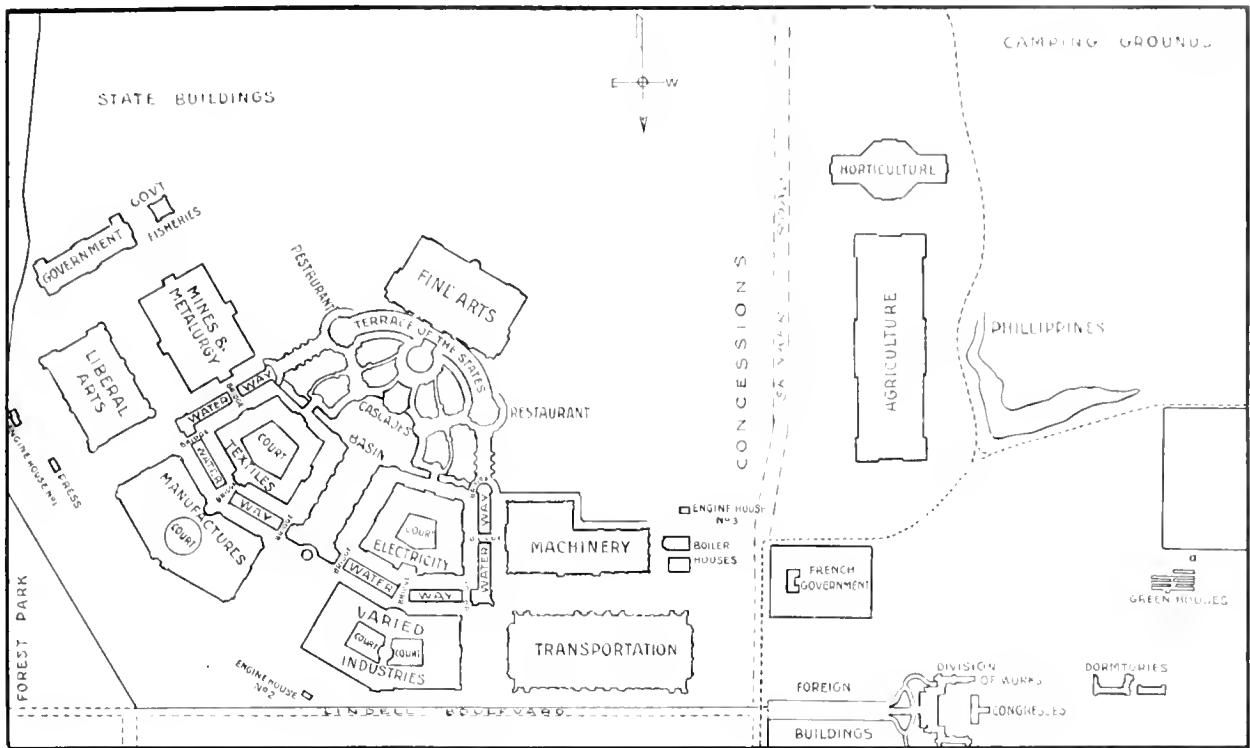
TARRYTOWN, N. Y., November 11-13, 1902.—Fourth annual exhibition Tarrytown Horticultural Society. Edw. W. Neubrand, Sec'y, Tarrytown, N. Y.

Concerning Exhibitions.

The schedules for chrysanthemum shows are now coming to hand from all over the country. As a rule the prizes are liberal and should furnish the necessary incentive to bring out the exhibitors in good force, especially in the cut flower classes. Unfortunately the labor and expense of growing high grade trained plants, the room required for their development and the difficulty and cost of their transportation are so much out of proportion to the prize fund of most societies and to the value on the exhibition floor, as far as the public is concerned, as to place the competition in



AUTOMOBILE DECORATED BY A. GUDE & BRO., WASHINGTON, D. C.



PARTIAL BLOCK PLAN OF THE ST. LOUIS WORLD'S FAIR.

this line out of the reach of any except the private gardeners on the few estates where such efforts are encouraged regardless of cost, and the great majority of the exhibitions will have to get along as best they can without these marvelous and expensive specimens of the expert gardeners' art.

It is a matter of regret that, instead of the pitiable attempts in the line of trained plants so often in evidence, growers intending to exhibit do not turn their attention to raising naturally-grown plants, particularly of the brighter varieties of the pompon classes for massed effect. It is possible to produce artistic results with these far beyond anything that can be accomplished with formal specimens or rigid, "one bloom to plant" material.

Most of the tables devoted to the displays of cut blooms are too high and much of the effect is thereby lost. An almost universal mistake is the overcrowding of the cut flower displays. In many instances the attractiveness of the show as a whole would be immeasurably enhanced were one-half or two-thirds of the material taken away.

It is hard to understand how the management of an exhibition can permit wilted, drooping flowers, table decorations or other floral designs to remain in sight after their beauty has fled. Such things must leave a most unfortunate impression on the minds of visitors who have paid to see the show. So soon as an exhibit begins to look untidy it should be understood that, if the exhibitor will not freshen it up, it is to be removed at once by the committee in charge.

In no enterprise is it more true than in a flower show that "what is worth doing at all is worth doing well." In introducing the public to an exhibition, large or small, the first essential is that the show shall be neat, finished, fresh and tasteful. Nothing in the way of tables, vases, pots or other accessories should be

tolerated that a good decorator would be unwilling to use in a private parlor or hall. It is only by adherence to this rule that the good repute of our profession can be maintained and the support of refined people assured for exhibitions.

S.

St. Louis World's Fair Buildings.

AN OPEN LETTER.

MR. F. W. TAYLOR, CARE HORTICULTURAL DEPT., ST. LOUIS, MO.

Dear Sir:—I acknowledge receipt of the block plan of the St. Louis World's Fair site and am greatly disappointed, and believe that disappointment will be general among those interested in horticulture, to note that the buildings for both horticulture and agriculture are apparently located without and at the side of the general plan and grouping of the department buildings, and such unsightly things as boiler and engine houses are between these departments and the general group of buildings for the fair.

The ground plan would seem to justify the conclusion that both horticulture and agriculture had been overlooked or forgotten in the first general plan. This relegating of horticulture to the back-ground is more in line with the usages of county fairs of twenty-five years ago, and although poorly located at Omaha, it is certainly in great contrast to the prominence given horticulture at the Chicago and Buffalo fairs. I believe the best recent opinions would locate exhibits of this kind where they would very fittingly beautify many parts of the general grounds. The large and prominent place allotted to "concessions" might well have been given to these two great departments and the money changes placed farther away than these beautiful displays which typify the best of gardening art. Yours truly,

(Signed) J. C. VAUGHAN.

Chicago, October 14, 1902.

New York.

CLUB HOLDS GOOD SESSION.—ORCHID COLLECTOR RELATES EXPERIENCES.—THE DETAILS OF THE WORK.—VISITORS ARE HEARD.—CRAIG PROPOSES EXHIBITION NOVELTIES.—CLUB TAKES ACTION ON THE COAL STRIKE.—THE MARKET.—VARIOUS NOTES.

The meeting of the New York Florists' Club on Monday evening brought out an attendance of about fifty, including many of the most substantial members. The regular routine, including satisfactory reports from the outing committee and the exhibition committee, passed off in usual order and Mr. O'Mara reported from the Plant Breeding Conference, where he had served as a club delegate. John E. Lager then entertained the members with a lengthy and very interesting account of his experiences in orchid hunting in South America, describing minutely the habitat of the various species sought, the methods of their collecting and shipment, the difficulties of travel through mountain fastnesses and river gorges, the dangers from wild animals and the many privations which must be met in this hazardous work. Mr. Lager has an enormous store of anecdotes and interesting facts at his disposal and could easily write a big book relating his many strange and thrilling experiences. A cordial vote of thanks was extended to him, also to H. Beaulieu for an interesting exhibition of new dahlias. It was announced that a large display of these flowers promised by Mr. Peacock had been delayed on the way and, therefore, had failed to reach New York in time for the meeting.

Among the visitors were Robert Craig and Ed. Fancourt, of Philadelphia, and F. Sander, Jr., of London, each of whom was called upon for a speech. Mr. Craig's effort was a gem in its novelty and wittiness. Expressing his deep interest in the approaching exhibition at Madison

Square Garden, he suggested the advisability of taking into consideration the great popularity everywhere now of athletic diversions and, as such sports are recognized universally in all modern literature and dramatic effort, and as he thought of the days of ancient Greece in the period of her grandeur, when feats of athletic skill held a foremost place in the minds of the people, it seemed that the New York club would do well to initiate something of this kind. Imagine, he said, the drawing power of a four-round boxing match between Julius Roehrs and J. N. May and the subsequent portrayal thereof by the sporting editors of the daily journals. He would enter Samuel Henshaw and S. C. Nash for a two days' walking match and would guarantee big gate money. The tumult of applause that followed when he drew a word picture of Julius Roehrs coming forth to have a laurel wreath placed on his brow fairly rattled the pictures on the wall.

Patrick O'Mara offered the following resolutions which were adopted by a unanimous vote:

WHEREAS, We, the members of the New York Florists' Club, having within our membership the great majority of the commercial florists in and around New York, are particularly dependent upon anthracite coal as fuel for heating our greenhouses, and

WHEREAS, Owing to the perishable nature of our products absolute ruin is impending, millions of dollars of invested capital is imperilled and the livelihood of thousands is at stake unless coal can be secured soon, therefore be it

Resolved, That we petition the governor of New York to use every available means to end the present intolerable condition in the coal industry, and be it further

Resolved, That a copy of these resolutions be sent to His Excellency, B. S. Odell, governor of New York.

The peculiar features of the cut flower market this week are the rapidly multiplying numbers of chrysanthemums, the quantity and beauty of the cattleyas and the scarcity of roses. In chrysanthemums Polly Rose is the best thus far. Especially fine are the specimens seen at John Young's. They are grown by Wm. Brennecke and are equal in size, finish, stem and foliage to many of the exhibition varieties that come later on. The cattleyas are elegant throughout, some of the blooms being exceedingly large and rich, and they are a most dangerous rival to the violets for corsage wear, in which line the demand is steadily increasing.

As to violets, it may be said that the growers have increased in number so rapidly and the competition is so keen that a grower sending inferior stock stands small chance for existence this year. Already a few parties are sending in violets of better grade than has ever been seen at so early a date. The demand is very light and the quantity altogether being received is not large considering the number of establishments devoted to this specialty. It is asserted by those who ought to be good judges that the three-dollar violet is not likely to materialize and that growers will have to be content with moderate values. There have been about twenty new violet-growing establishments added to the list in Rhinebeck this season. This is now the great violet center and Poughkeepsie, which held the lead so long, has dropped far in the rear. There are some fine establishments in the neighboring Highland, but in Poughkeepsie proper there is barely a dozen growers of any prominence left where at one time there were about sixty.

On October 11 F. S. Earle gave a public lecture on "Health and Disease in Plants"

at the Bronx Botanical Garden. The remaining lectures of the course are as follows: October 18, "The Growth of Plants in Darkness," Dr. D. T. MacDougal. October 25, "Some Historic Trees," Prof. L. M. Underwood. November 1, "A Meeting Place of Modern and Ancient Floras," Dr. A. Holleck. November 8, "The Stonecrop Family," Dr. N. L. Britton. The lectures are illustrated by means of lantern slides and otherwise.

Dahlias are lingering in the lap of the chrysanthemums and they really work together splendidly, the loose, informal style of the cactus varieties adapting them nicely for this purpose and their brilliant colors giving a liveliness to chrysanthemum combinations otherwise unobtainable.

Hicks & Crawbuck express great satisfaction over the results up to date of their new wholesale establishment on West Twenty-ninth street. Henry E. Riedel, well known for a generation in the New York trade, is on deck there.

One of the best white carnations seen in this market at present is the Bertha Rath, which Frank Millang is handling for its grower, Mr. Rath. It lacks a little yet in length of stem, but in all other points it is good.

Ford Brothers have completed the remodeling of their store, which now gives them nearly double the space they had formerly and is equal to the best of the wholesale stores.

Chas. Millang is having a conservatory erected in the rear of his cut flower store, to be used for palms and other commercial decorative plants.

Visitors: Sam. McClements, Pittsburg; Ed. McMullin, Boston.

Chicago.

RECEIPTS INCREASE AND AVERAGE RETURNS GO DOWN.—GOOD DEMAND FOR CHOICE STOCK.—CHRYSANTHEMUMS COMING IN HEAVILY.—VALUES A DISAPPOINTMENT TO THE PRODUCERS.—SALES SLOW.—GOOD VIOLETS.—ALL ABOARD FOR JOLIET.—HORTICULTURAL SOCIETY MEETS.—PERSONAL AND TRADE DOINGS.

By the end of last week there had been so great an increase in daily receipts that the market was back to normal, but Sunday's storm and Monday's cold served to check production, so that the surplus which had been feared for the middle of the week was postponed. However, there have been ample supplies in general lines and for early orders. Beauties have sometimes been hard to find in some special grade late in the day, and white carnations of high grade have also been a little short, but there have been too many of low grade colored carnations. In fact, supplies have been so ample that averages for the last seven days are much under the previous week, even with the big break which came on Friday and Saturday. The last few days have seen large increases in the number of chrysanthemums finding their way to market, and the universal report is that they are slow sale, considerably slower than a year ago and averaging the growers less money. There are all grades at hand, from very poor to very good, but most of the houses say that the scaling down in values applies all along the line. There are some good violets now at hand, but the market is erratic; one day the demand exceeds the supply and the next there is no demand at all. The city trade fell off after the stores stocked up Monday and has been quiet all the week. Out of town demand has continued fair, but the call is always for better and better goods,

with the result that while the select stock and fancy grades may hold up in price there is a larger and larger proportion of the receipts which has to be jobbed off to the Greeks.

The party visiting Joliet on invitation of the J. D. Thompson Carnation Company will leave the Union depot, Adams and Canal streets, October 22, at 8:35 a. m. on the Chicago & Alton R. R. There will be a special car on the train, on which round trip tickets will be furnished at \$1.05. The trip will include a visit to the penitentiary in the forenoon, after which dinner will be served. The party will then proceed to the greenhouses. Those who cannot arrange to go by the early train may take one leaving on the Rock Island R. R., Harrison street and Fifth avenue, at 11:45 a. m., where some one connected with the firm will take care of them. The invitation is extended to all persons in the trade. The train returning will leave Joliet at 6:30 p. m., and those who go by the Rock Island can return over the Alton in the special car.

At the meeting of the Horticultural Society of Chicago, October 13, the various exhibition committees reported progress. It was announced that Chas. R. McClune had been engaged as press agent and President Chadwick appointed P. J. Hauswirth, W. N. Rudd and E. A. Kanst to act with a similar number of members of the Florists' Club as a banquet committee during the forthcoming exhibition.

Eli Cross is shipping violets from Grand Rapids in a corrugated pasteboard box, the cost of which is only a cent or two more than the return charges on the old wooden box, and the saving in express charges is considerable. It is a box which might well be adopted by many growers.

Weber Brothers are just getting into their second crop of Bride and Bridesmaid, from carried over plants. Their prospects are fully up to the past two seasons, when they had as fine stock as came into the market.

J. A. Budlong is preparing to add another house 27x200, to be used for propagating carnations this winter and for chrysanthemums next fall. He is at present installing three additional boilers.

Albert Fuchs has completed two handsome apartment buildings at the corner of Lawrence and Kenmore avenues. One of them is named "The Netherlands," the other "The Fanny Richter," for his wife.

Henry Smith had his greenhouse builder down from Grand Rapids this week, inspecting modern local houses, for Mr. Smith is putting up two more structures of the most approved pattern.

Oncidiums are not largely handled in this market, but the retailers find them useful; they have paid Aming as high as \$1 a spray for good stock this week. Cattleyas are plentiful.

The Central Floral Company not only has its window full of fine stock, but each variety bears a card giving its name, which appears to interest passers-by very much.

The next meeting of the Florists' Club will be held in Handel Hall October 22, at 8 p. m. The election of officers for the ensuing year is scheduled for this meeting.

The new hall of statuary at the Art Institute is rapidly nearing completion. It will be ready in ample time for the big November flower show.

November 1 is All Saint's day, annually the occasion for a large business with New Orleans, and this year St. Louis will observe the day.

Wietors and Peter Reinberg, among others, are cutting chrysanthemums in good quantities.

The Chicago Carnation Company is sending Deamud some good American Beauty stock.

There was a frost October 13 which proved unlucky for unprotected stock outdoors.

J. C. Vaughan left October 14 on his fourth trip this season to the green districts.

A. Kennicott has been down at Carbondale for a few days, planting pæonias.

Max Kingier is back at Auling's after a five weeks' illness.

Visitors: A. S. Rice, Minneapolis; Eli Cross and Henry Smith, Grand Rapids; F. H. Holton, Milwaukee.

Boston.

A QUARTER CENTURY OF PROGRESS COMMEMORATED.—CALEBRATION AND A BANQUET.—ELABORATE MENU.—GOODSPEAKERS AND MERRY.—MARKET OPENS LIVELY.—GOOD DEMAND AND DIMINISHED SUPPLY.—VARIOUS NOTES.—VISITORS.

Friday, October 10, was the twenty-fifth anniversary of the establishment of the cut flower commission business in Boston by Patrick Welch and it was observed as a gala day, in a manner befitting an event so full of import to the wholesale flower trade of New England. The celebration culminated in an elaborate banquet at the Quincy House on Friday evening, where there were gathered half a hundred staunch friends and admirers of the enterprising, sagacious and genial example of a self-made man in whose honor they had assembled. Not only was the event of significance as marking the turning of a quarter century of existence for a successful business house but the remarks of the various speakers as they counted the progress of events and contrasted the old conditions with those of to-day, showed that all recognized that the occasion also commemorated appropriately the achievement of an honorable position among our commercial industries, for a business which from its inception had to endure more than the usual allowance of obloquy and abuse even at the hands of those it benefited the most. So it was a double triumph for P. Welch, as he sat at the head of such a table and looked around upon the faces of an assembly in whose personality was well represented every attribute of business and professional life which distinguishes and individualizes a Boston gathering. And the two other members of the firm of Welch Brothers, Messrs. David and Edward Welch, who have contributed, in their several departments, their full share towards the popularity which their house has attained, they also were accorded an equal part in the congratulations.

The "Old Guard" had naturally an active share in the preparation and carrying out of the programme. F. K. Mathison presided, Ed. Hatch made an admirable toastmaster, the decorations evinced the artistic taste of M. H. Norton, the viands were served with characteristic generosity by W. W. Edgar, and the music and the be-mottocd menus exemplified W. J. Stewart's ideas of what an up-to-date symposium demands. The figures "1877-1902" were portrayed in brilliant colors on the walls, long festoons of asparagus were draped overhead, the walls were banked with potted plants and the table was a veritable garden of bloom. The menu bore a striking portrait of Mr. Welch flanked by the quota-

tions "I awoke one morning and found myself famous" and "He wears the rose of youth upon him." Extracts from gifted authors and poets were interspersed among the various courses, the closing sentiment being "O bed! O bed! delicious bed! That heaven upon earth to the weary head!"

As to the speakers, there was "not a speck of mildew in the whole bunch." Mr. Mathison was witty and eloquent by turns in his opening address, as he referred to Mr. Welch as an exemplification of perpetual motion and complacent sagacity and recounted the beneficial effect of the great distributing agency which Welch Brothers had built up. He introduced Mr. Hatch as a toastmaster who could toast his audience without using up a pound of anthracite coal. Mr. Hatch's introductions were in the best of taste. The first speaker was George Moore, of Quebec, who was foreman at Waban Conservatories twenty-five years ago and was more or less of a factor in encouraging young Mr. Welch in the early days of his business venture. His



PATRICK WELCH.

address was well worthy of the close attention it received and very interesting historically, as the recollections of an intelligent and observant man. Prof. Louis C. Elson recited an original poem written for this occasion in which the personal characteristics and virtues of the three brothers were wittily exposed. Lafayette G. Blair and Judge C. W. Hoitt each ably represented the legal contingent and paid brilliant tributes to the several abilities of Patrick, David and Edward. The eloquence of Lawrence Cotter and of Wm. E. Doyle, who followed, was equally impressive and M. H. Norton, W. J. Stewart, Jackson Dawson and others spoke as only close associates of a quarter century can speak of an esteemed friend. Warren Ewell was simply inimitable and outdid himself if such were possible. P. Welch, when he rose to respond, received an ovation such as a president might envy. He was most appreciative and expressed his indebtedness to growers, buyers and colleagues generally and particularly to his late lamented friend, Edmund M. Wood, for what success had come to his lot. Letters of congratulation were presented from Patrick O'Mara, John Young, Thos.

Young, W. F. Sheridan, A. F. Barney, Carl Jurgens, S. J. Reuter, J. M. Galvin and others. Among the guests from outside the state were E. J. Harmon, Portland, Me., and A. M. Rennie, Providence, R. I.

The market opens up pretty well this week, with a good demand, local and shipping and a diminished supply of roses in all varieties and a disposition to stiffen up a little on prices. Violets are more plentiful and of better quality than thus far this season. Carnations are selling freely but not up to the mark in quality and there is much fault finding on the part of buyers at the price asked for such a quality. Chrysanthemums continue to increase in number, also in size and quality of flowers.

The first meeting of the Gardeners' and Florists' Club was held at Horticultural Hall on Tuesday evening, October 14, and the members were entertained by E. O. Orpet, of South Lancaster, who presented a lecture entitled "Gossip on General Gardening Topics."

Martin E. Tuohy, of South Boston, has opened a new store at 253 Main street, Charlestown.

H. Thiemann has been obliged to go to the Hot Springs on account of severe rheumatism.

Visitors: C. E. Mehan, Alfred Burton and Wm. Stephens, Philadelphia; W. T. Macoun, Ottawa, Ont.; Geo. Nicholson, England.

Philadelphia.

TRADE ON THE INCREASE.—OUTLOOK PROMISES A SPLENDID SEASON.—RECEIPTS INCREASE AND STOCK GRADES HIGHER.—THE PRICES.—MARKET WILL SOON BE READY TO OPEN.—COMMISSION DEALERS BARRED.—TWO FLOWER CENTERS NOW.—A VARIETY OF NOTES.

Business keeps up very well. The transient trade seems to be increasing and as there are a number of weddings in sight there will no doubt be a gradual increase until the debutant teas commence, which occasions give a grand impetus to the social season. The great scarcity of flowers the past few weeks has happily been relieved by larger shipments, there being considerably more flowers received the last week at all wholesale houses. Prices are a little stiffer, top Beauties having moved up to \$3.50 per dozen. In this class the stems are thirty-six inches long and the buds perfect. Select teas now range from \$6 to \$8. The quality is improving but considerable progress will be necessary before the winter standard is reached. Carnations range from \$1 to \$2 per hundred; two-thirds of the flowers are from outdoors or from buds that were on the plants when they were lifted, and are not up to the mark. We are now getting some nice double violets at 75 cents per hundred. Singles are getting better, 25 cents to 35 cents per hundred being the price. Chrysanthemums are now making their presence felt and are daily becoming more numerous. Mme. Bergmann, Willowbrook, Glory of Pacific and Polly Rose are the principal varieties. So far prices range from \$1 to \$2.50 per dozen. Cosmos is arriving in large quantities and these, together with the dahlias, of which there is still an abundant supply, keep the stocks in the stores very full and of great variety.

The market movement is getting along famously. The charter has been secured and everything points to an early and successful opening. Some time ago I mentioned in these notes that the matter of

the admission of commission men was laid over. It appears, however, that this was a mistake, as it was determined definitely that they should not be admitted. The list of subscribers to the stock is most gratifying, as it shows that all, with one or two exceptions, who cut any figure in this market, have connected themselves with the movement, either by purchase of stock or renting stalls. It is not thought that all who have subscribed to the stock will send their entire cut to the market, but the great majority will and sufficient acreage of glass is promised to insure a stock that should draw a great crowd of buyers. There is about 1,500,000 feet of glass represented in the 610 shares subscribed and if two-thirds of the product of this area is handled through the market it will be a great advantage to the trade in this city. Mr. Young takes exception to some of my remarks in this column relative to the location selected. What was said as to the flower center of the city being at Sixteenth street above Chestnut cannot be doubted, as at least four-fifths of the wholesale commission business is conducted there or within one block of this point, and as it has grown gradually, it follows that it has been found to be the most convenient place for all concerned. I did not select a place; I mentioned or pointed out a place that I thought had been overlooked by the committee, and while it did not suit, not being in a convenient or modern building, it certainly had location in its favor. There will now be two flower centers about ten minutes' good walking distance apart, which will be a distinct disadvantage to the buyers and, I believe, to the sellers as well. However, I believe the market will be a great success and Joseph Heacock, John Welsh Young, S. S. Pennock, Charles Mehan and others who have worked hard in the matter up to date deserve and should have all credit for what they have done.

At the establishment of Robt. Craig & Son, on the occasion of a recent visit Carnation Adonis appeared to be in splendid shape. Begonia Gloire de Lorraine, under the careful hand of John Winship, an accomplished grower of the old school, never looked better. Cyclamens in vast quantity, also grown by Mr. Winship, were in extra fine condition.

Everybody is overjoyed at the turn affairs have taken in the coal strike. Let us hope that the turmoil is indeed over and matters fixed up in such a way that they will stay fixed, and that there will never be any more trouble with this vital necessity.

Wm. K. Harris is growing a quantity of handsome pyramidal genistas (cystisus) this season. K.

Nashua, N. H.

TRADE TAKES A TURN FOR THE BETTER.—STOCK INSUFFICIENT FOR FUNERAL REQUIREMENTS.

Up to last week business was unusually quiet but during the past few days, owing to the frost of last week and several funerals, trade has been very brisk. Up to last Saturday the supply of stock was sufficient. At the funeral of W. D. Cadwell, agent of the largest cotton mills here, on Monday, some very beautiful and expensive designs were used. August Gaedeke & Company made up by far the larger portion, including a five-foot gates ajar and a forty-inch arch with closed book. Doyle and Newman, of Boston, were also well represented by their work. The

stock in the various establishments never looked better at this time of year. The coal supply for the winter has been secured.

St. Louis.

CLUB HAS AN ATTRACTIVE PROGRAMME OF ESSAYS.—BIG STORM PLAYS HAVOC.—NARROW BELT SUFFERS.—BUSINESS GOOD AND STOCK MORE PLENTIFUL.—FAIR A SUCCESS.

The following is the programme for the season at the St. Louis Florists' Club: October, "Hardy Bulbs for Cut Flowers," by R. J. Mohr; "Poinsettias for Christmas, Cut and in Pans," by C. C. Saunders. November, "How to Grow Cyclamens for Christmas," by A. Jablonsky; "Forcing Romans and Narcissi," by F. Fillmore. December, "Blooming Plants for Retailers for Christmas," by R. Tesson; "Best Method of Rooting and Growing Rubber Plants," by C. Beyer. January, "Forcing Harrisii Lilies for Easter," by Geo. Windler; "Growing California Violets," by J. Steidle. February, "Growing Carnations: Advantages of Early Planting," by Wm. Winters. March, "How to Grow Beauties," by M. Herzog. April, "Experience with Short-span Greenhouses," by J. F. Ammann; "Forcing Hydrangeas for Easter," by Emil Schray. May, "How to Keep an Attractive Show Window," by J. J. Beneke; "How to Grow Brides and Bridesmaids," by E. Emmons. June, "Paeonias and Other Hardy Plants for Cut Flowers," by Otto Koenig; "Best Method of Growing Sweet Peas Outdoors and Best Varieties for Cut Flowers," by A. S. Halstead. July, "Benefits Derived by Attending Conventions," by F. C. Weber. August, "Trade in Cut Flowers of the Past Season," by F. M. Ellis.

The St. Louis fair was most successful in point of attendance but the floral exhibits, while good, were not as extensive as has sometimes been the case. Some very fine plants were shown and the designs were excellent. Wm. Schray & Sons were the largest exhibitors and prize winners in the plant classes, with Young & Sons Company second. In many points the competition was close between them. In the classes for cut flowers, designs and table decorations Ellison & Tesson and Youngs competed so sharply that there was an almost equal division of the firsts and seconds. The association had offered \$500 in premiums and these three exhibitors took most of it.

Stock is coming in more plentifully this week but only a small part of it is fancy, either roses or carnations. The best roses bring as high as \$5 and \$6 per hundred, while carnations run about the same as usual, from 75 cents to \$2.50 per hundred. Chrysanthemums are beginning to come in more plentifully and bring from \$5 to \$20 per hundred. Cosmos has been a drug on the market, as violets come very near being, bringing from 25 cents to 40 cents per hundred. A considerable amount of funeral work has used up everything in white.

A very hard rain and hail storm swept over this city Sunday night but fortunately was not very much spread. The Egging Floral Company had a great number of lights destroyed, while Chas. Beyer, just a mile farther south did not even hear the hail. A few others in the direct path of the storm had a little glass broken. Egging's loss was \$2,500, insured. The Michel Plant and Bulb Company, Mrs. M. Ayers, Miss Mary Oster, tag and A. Brix are among those who

received injury, from \$100 to \$2,500. Kirkwood had a touch of it also.

A forged check swindler has been operating among the local florists. It is the old scheme of ordering flowers sent and offering a check which requires a few dollars change. Among those who lost are the Egging Floral Company, the Deimer Floral Company and Rose Aruta, each of whom tells the police that the man was so smooth that he awakened not the least suspicion. He is described as 35, five feet nine inches tall and well dressed. R. J. M.

Detroit.

CLUB LISTENS TO A BOTANICAL DISCUSSION.—ARBORETUM PLANNED.—TRADE GOOD AND SUPPLIES OF STOCK INADEQUATE FOR THE DEMAND.—A WEDDING.

Thirty members of the club were present at the regular meeting last Wednesday evening to listen to an address by S. Alexander, the park botanist, on "Botanical Classification of Plants and Flowers." The lecturer was well provided with many specimens of trees, plants and flowers which he used to good advantage in making his remarks both instructive and highly interesting. Mr. Alexander has undertaken the establishment of an arboretum at Palmer Park and is endeavoring to have the park commission make an appropriation for the establishment and maintenance on Belle Isle of an herbal botanic department on similar lines to an arboretum and identical with the only one of its kind in this state, which is at Lansing, and where all kinds of plants and flowers indigenous to Michigan are collected. At the next regular meeting of the club, November 5, Professor Taft will address the members on some subject of his own selection.

Trade conditions are good and business continues to increase daily. Carnations are improving in quality, but the supply is much short of the demand. Chrysanthemums are beginning to come in more plentifully and are easily disposed of. An extraordinary demand for Beauties is noticed, but the supply is short. Violets are eagerly sought for and, although several of the local growers are picking a fair quantity, the supply is not sufficient.

George Browne, of Greenfield, was not at the club meeting Wednesday evening; his presence was required at a marriage ceremony at the same hour. He sent the cigars, however, to the hoys of the club.

On Saturday evening, October 4, Geo. Reynolds and Harry Smith entertained a few members of the club at Doston's cafe at Grosse Pointe. J. F. S.

Cincinnati.

CLUB MEETS AND TRANSACTS ROUTINE BUSINESS.—BANKERS SAY FLORISTS' PLANTS TOO SMALL.—SHOW PREFERENCE FOR PARK STOCK.—VARIOUS NOTES.

The regular monthly meeting of the Florists' Society, held October 11, was well attended and a good deal of routine business attended to. The schedule of premiums for the November exhibition of chrysanthemums was adopted and the list of prizes offered ordered to be mailed to the different growers. A committee consisting of Messrs. Rudolph, Ohmer, Ball, Rodgers and Schwartz was appointed to secure the necessary notices in the daily press. Ben. George will be the officer of the day. A vase of Enchantress carnation from the Thompson Carnation Company, Joliet, Ill., was on exhibition and favorably commented upon.

The Ohio State Bankers' Association held its convention here this week and wound up with a big banquet. The committee in charge of the decorations claim that the local florists have not plants large enough to decorate the hall and called upon the Board of Public Service to get the plants from the city greenhouses. Luckily the matter was referred to Park Superintendent Critchell, who threw cold water on their desires. I think that with a little perseverance and hard cash the bankers could be supplied by the local florists with all the plants they could use.

We are going to have another wholesale house in the near future and rumor has it that Louis Kyrk, now at McCullough's, will be the manager.

Business is fair and a nice lot of flowers is being sent in. The only scarcity seems to be in carnations.

Mr. and Mrs. James B. Allan are in Boston, visiting Mr. Allan's parents.

J. Goldman, of Middletown, was a visitor this week.

We had the first killing frost Tuesday night. D.

Cleveland.

CLUB HOLDS WELL ATTENDED MEETING.—NEW CARNATION SHOWN.—BUSINESS VERY GOOD.—NOTES OF PERSONAL AND OTHER DOINGS.

The club held its regular meeting October 13 and was very well attended, some thirty members being present. J. D. Thompson sent a vase of Enchantress carnation for exhibition, which was very much admired and received the endorsement of the club as being the best carnation of its color extant. A number of our new members were present and seemed to enjoy themselves thoroughly, bowling, some good scores being made.

Business is all that can be desired. Several large weddings have helped things along, Smith & Fetters having the major portion. Mr. Fetters has returned from Arizona for a couple of weeks, looking the picture of health. I am glad to state that his partner, Mr. Smith, is recovering rapidly from his recent attack of illness.

Fred. Aul was as busy as usual when the writer called. His chrysanthemums were found to be up to the standard. Thousands of vincas, ivies and hydrangeas were being housed. No matter how busy he is, he generally finds time to attend the club meetings.

The F. R. Williams Company is sending in some fine stock. Their houses of Bride, Bridesmaid and Meteor are second to none, the latter being exceptionally fine.

James Wilson has everything in ship-shape order for winter and, if the present condition of the stock counts for anything, he will be right in it this winter.

Wm. Smith, of Madison avenue, is running his roses over the second year. If they turn out as well as they did last year he will be right in it. Echo.

Lowell, Mass.

TRADE HEAVY FOR THE SEASON AND SUPPLIES ON THE INCREASE.—CHRYSANTHEMUMS SERVE TO FLATTEN PRICES.—NOTES.

At present the cut flower market is in excellent condition, with the supply of stock gradually on the increase. For the past two weeks the market has been short of the demands, which have been heavy for the time of year. Chrysanthemums are being cut in large quantities. Bergmann, Polly Rose, Glory of Pacific

and Mouravia are the ones that are coming in at present. Business continues to keep up, something doing all the time, and everybody seems to be getting a slice of what is going on. No frosts have visited us so far and some of the small growers who are minus coal are praying with a good many others that it will hold off for a while longer. At this late day there seems to be no end to dahlias, which are being shipped to town in immense quantities. Red and yellow are the colors that predominate and make very attractive window displays. With the stately chrysanthemum army on the move and steadily on the increase it has put an end to the fancy prices realized for carnations the past two weeks. Violets are now to be had in good supply and quality.

Henry Caldwell, formerly of Lowell, but now employed on the French estate in North Easton, was in town last Saturday, renewing acquaintance.

Frank Faulkner has severed his connection with the old Sheppard place, to go to work for J. Lewis Lomis, at Washington, D. C. A. M.

Providence, R. I.

STOCK PLENTIFUL AND DEMAND NOT HEAVY.—PRICES TEND DOWNWARD.—VARIOUS TRADE NOTES.

Up to October 6 all hothouse flowers had been scarce and hard to obtain when the orders came in, but since that time the market has eased off on prices and filled up on stock until now it is possible to secure roses at \$2 to \$5 and carnations at \$1.50 per hundred. Chrysanthemums of ordinary type bring \$1 and \$1.50 per dozen wholesale although not in very good demand as yet. The weather has been poor for business, damp and cloudy.

Mr. Glass is now in charge of the Rhode Island Greenhouses since Mr. Cameron's retirement. He was formerly with Edgar, of Waverley and Spencer Bros., of Bristol, N. H. The range is kept in nice condition always, and Mr. Glass expects a profitable season.

W. S. Nichol, of Barrington, still holds close to his Wild Rose carnation which is in full crop at present. It is a nice flower for design work.

Almy is in full sway with his carnations, violets and chrysanthemums, especially the latter, which are very good this season.

L. Williams is off crop on everything, but has a nice round lot of chrysanthemums showing up strongly.

John Wood is again on the move, this time to Westminster street, below the Arcade.

F. Macrea's roses are coming in regularly now. M. M.

BATH, ME.—The Kennebec Greenhouses have been incorporated with \$10,000 capital stock. J. S. Hyde is president and treasurer.

EVANSVILLE, IND.—Johanna M. Niednagel, wife of Julius Niednagel, died October 5, as the result of paralysis. She was in her forty-ninth year.

ALEXANDRIA, IND.—George Rentschler, of Janesville, Wis., has purchased the Alexandria Greenhouses and leased the ground on which they stand.

SYRACUSE, N. Y.—The fine new range of steel-frame structures at Oakwood Cemetery are the work of the Phillips Manufacturing Company, Jersey City, N. J., from the plans upward, including the heating.

Meetings of Florists' Club.

The accompanying list gives the cities in which there are active florists' clubs. Following the name of the club is the place of meeting, the day of meeting, the hour and the name and address of the secretary:

BALTIMORE, MD.—Gardeners' Club of Baltimore, Royal Aramum building, 18 W. Saratoga street. Second and fourth Monday of each month, at 8 p. m. John J. Perry, Sec'y, Gay and Eager streets.

BOSTON, MASS.—Gardeners' and Florists' Club of Boston, Horticultural Hall. Meets second Tuesday of each month. W. E. Fisher, Sec'y, 18 Union Terrace, Jamaica Plain, Mass.

BROCKTON, MASS.—Brockton Gardeners' and Florists' Club, store of W. W. Hathaway, Times Building. First and third Tuesday of each month, at 8 p. m. W. W. Hathaway, Sec'y, Brockton, Mass.

BUFFALO, N. Y.—Buffalo Florists' Club, 481 Washington street. Second Wednesday of each month, at 8 p. m. Wm. Legg, Sec'y, 1440 Delaware avenue, Buffalo.

CHICAGO, ILL.—Chicago Florists' Club, Handel Hall, 40 Randolph street. Second and fourth Wednesday of each month, at 8 p. m. George Wiehoboeber, Sec'y, 413 Elm street, Chicago.

CINCINNATI, O.—Cincinnati Florists' Society, Jabez Elliott Flower Market. Second Saturday of each month, at 8 p. m. Frank W. Ball, Sec'y, 437 Main street.

CLEVELAND, O.—Cleveland Florists' Club, Progress Hall, 341 Detroit street. Second and fourth Monday of each month, at 8 p. m. Isaac Kennedy, Sec'y, Woodcliffe, Lake avenue-Cleveland.

DENVER, COLO.—Denver Floral Club, 323 Charles Block. Second and fourth Friday of each month, at 8 p. m. F. T. Rushmore, Sec'y, 2316 Franklin street.

DETROIT, MICH.—Detroit Florists' Club, Cowie Building, Farran and Gratiot avenue. First and third Wednesday of each month at 8 p. m. J. F. Sullivan, Sec'y, 214 Woodward avenue.

HARTFORD, CONN.—Hartford Florists' Club. Second and fourth Tuesday of each month at 8 p. m. J. F. Coombs, Sec'y, 688 Main street.

INDIANAPOLIS, IND.—State Florists' Association of Indiana, Commercial Club rooms, Indianapolis. First Tuesday of each month, at 8 p. m. H. Junge, Sec'y, 456 E. Washington street Indianapolis.

MONTREAL, QUE.—Montreal Gardeners' and Florists' Club, Alexandria rooms, 2204 St. Catherine street. First and third Monday of each month. W. H. Horobin, Sec'y, 23 Closse street.

NEW YORK, N. Y.—New York Florists' Club Civic Hall, 128 East Twenty-eighth street. Second Monday of each month, at 7:30 p. m. John Young, Sec'y, 51 West Twenty-eighth street, New York.

OMAHA, NEB.—Nebraska Florists' Society, City Hall. Second Thursday in each month at 8 p. m. Louis Henderson, Sec'y, 1519 Faraom street, Omaha.

PHILADELPHIA, PA.—Florists' Club of Philadelphia, Horticultural Hall, Broad street above Spruce. First Tuesday of each month at 8 p. m. Edwin Lonsdale, Sec'y, Wyndmoor, Philadelphia, Pa.

PITTSBURG, PA.—Pittsburg and Allegheny Florists' and Gardeners' Club, at rooms of Pittsburg Cut Flower Co., 504 Liberty street. Second Thursday of each month, at 8 p. m. T. P. Langhans, Sec'y, 504 Liberty street, Pittsburg.

PROVIDENCE, R. I.—Florists' and Gardeners' Club of Rhode Island, 95 Westminster street. Providence. Second Thursday of each month, at 8 p. m. Alexander Rennie, Sec'y, 41 Washington street, Providence.

RICHMOND, IND.—Richmond Florists' Club, Commercial Club rooms. First and third Friday of each month. H. C. Chessmann, Sec'y.

SALT LAKE CITY, UTAH.—Salt Lake Florists' Society, office of Huddart Floral Company, 214 E. Second South street. Second and fourth Friday of each month. P. T. Huddart, Sec'y.

SAN FRANCISCO, CAL.—Pacific Coast Horticultural Society. First Saturday and third Monday of each month. Thos. H. Munroe, Sec'y.

SEATTLE, WASH.—Seattle Commercial Horticultural Club, First and Cherry streets. First Wednesday of each month. Wm. Hopkins, Sec'y, 622 First avenue.

ST. LOUIS, MO.—St. Louis Florists' Club, Odd Fellows Hall No. 2, Ninth and Olive streets. Second Thursday of each month, at 3 p. m. Emil Schray, Sec'y, 4101 Pennsylvania avenue, St. Louis.

TORONTO, ONT.—Toronto Gardeners' and Florists' Association, St. George's Hall, Elm street. Third Tuesday of each month, at 8 p. m. W. C. Jay, Sec'y, 438 Spadina avenue.

UTICA, N. Y.—Utica Florists' Club, 183 Genesee street. First Thursday of each month at 8 p. m. J. C. Spencer, Sec'y.

WEST HOBOKEN, N. J.—North Hudson Florists' Club, store of H. C. Steinhoff, Hudson boulevard, West Hoboken. First Tuesday of each month, at 8 p. m. Geo. F. Rogge Sec'y 616 Washington street, Hoboken.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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The Advertising Department of the AMERICAN FLORIST is for florists, seedsmen and nurserymen and dealers in wares pertaining to those lines only. Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday. Address

AMERICAN FLORIST CO., Chicago.

SOME good kinds of peonias are as scarce as hard coal.

IN nearly all lines of the trade there is much demand for intelligent help.

MANETTI rose stocks, both the English and French, are reported scarce.

THERE is no class of consumers to which the news of the settlement of the coal strike is more welcome than to the florists.

AMERICA is one of the few carnations raised in the United States that are attracting the attention of English growers.

GOOD judges of carnations speak in very high praise of Enchantress as seen at the J. D. Thompson Company's houses at Joliet during the past two weeks.

THE mailing label on your paper shows when your subscription expires; when you send your renewal note that the date changes within two weeks; it will serve as your receipt.

Naturally.

ED. AM. FLORIST:—The adv. in your paper brought more than twice the amount of orders of any other paper. Greene, N. Y. THE PAGE SEED CO.

American Carnation Society.

DEPARTMENT OF REGISTRATION.

Gunnar Teilmann, Marion, Ind., registers Marion Beauty, a dark velvety scarlet, large fringed flower, a fine producer and grower; cross between Gen. Macco and Flora Hill.

ALBERT M. HERR, Sec'y.

The Use of Cement.

The following paragraph from the *Toronto World*, though addressed primarily to Canadian readers, is even more applicable to conditions in the United States, according to the Bureau of Statistics of the latter country: "The use of Portland cement is in its infancy and the manufacture of it on a large scale is only beginning in this country. Cement promises to replace stone for all kinds of heavy foundations and other wall works, to replace stone for paving, to replace brick very largely for building, and to replace lumber where lumber has been used. Indeed, cement will soon be, next to steel, perhaps more than steel, the chief building material of this continent. Our houses will soon come to be of cement and every day sees the field for the use of cement growing at a surprising ratio."

Greenhouse Building.

Hartland, Me.—Fuller-Osborne Company, range of houses.

Gardner, Mass.—J. R. Davis, cucumber house 20x140. Mrs. Geo. S. Colburn, house 20x125.

Hampton Falls, N. H.—J. A. Dow & Son, one house.

Grand Rapids, Mich.—Henry Smith, two houses.

Chicago, Ill.—J. A. Budlong, house 27x200.

Annapolis, Md.—E. A. Seidewitz, two houses.

Wintering Caladiums.

ED. AM. FLORIST:—What is the best method of wintering the bulbs of Caladium esculentum? With us the greater part of the bulbs rot. N. J. F.

Caladium esculentum bulbs should be kept warm and dry. If kept in a dry place in a temperature of from 65° to 70° there is no doubt but what they will winter perfectly. The bulbs should not be cleaned before being stored. Clean them when you want to start them in the spring. Start with bottom heat. E. A. KANST.

Sweet Pea Certificates.

ED. AM. FLORIST:—In your issue for September 6, 1902, on page 217, appears an article on the doings of the National Sweet Pea Society, England, signed "H." in which it is stated that Dobbies' new sweet peas Britannia and Jessie Cuthbertson gained the coveted award of a first-class certificate. Will you kindly permit me to say that this is not correct. I was present at the committee meeting when they were exhibited and no award was made by us to either of the two, although they are undoubtedly very beautiful. Dorothy Eckford (Eckford) and Golden Rose (Hurpee) each gained a first-class certificate. S. B. DICKS.

Soft Coal and Flues.

ED. AM. FLORIST:—The inquiry of "T. N. Y." in the last issue puts me in mind of a place where I was in charge of five houses 110 feet long, heated by flues. There was a run of brick for about fifteen feet from the fire box, then terra cotta pipe the whole length of the house to the far end, where the smoke stacks were sixteen to twenty feet in height. During my stay there of several years we used nothing but soft coal and it did the work well. If the draft is free there ought never be any trouble. Flues always smoke at first, possibly more with soft coal than otherwise, but after once warmed up work satisfactorily. W. F. SCHMEISKE.

Trouble With Carnations.

ED. AM. FLORIST:—I am sending you a sample of affected carnation blooms in the hope that you can tell what the cause is, and the remedy. Can it be the damp weather? The plants are good and healthy and the blooms were fine until recently. S. L.

During a spell of mild, wet weather we have met with the same trouble as "S. L.", especially at this time of the year. To guard against it we keep a little steam on, just enough to maintain a dry atmosphere, the ventilators being left open a little all the time. We also allow the beds to dry out more than usual during such a spell. We have just passed

through two weeks of dark, wet weather and in that time some of our carnation beds were not watered at all.

C. W. JOHNSON.

Chrysanthemum Society of America.

The seedling committees of the C. S. A. meet each Saturday until the end of November, as follows:

Boston, Mass.—E. A. Wood, chairman, care of Boston Flower Market, Park street; James Wheeler, William Nicholson.

New York, N. Y.—Engene Dailedouze, chairman, care of New York Cut Flower Company, Twenty-sixth street and Sixth avenue; James W. Withers, William H. Duckham.

Philadelphia, Pa.—A. B. Cartledge, chairman, 1514 Chestnut street; William K. Harris, John Westcott.

Chicago, Ill.—James S. Wilson, chairman, care of J. B. Deamud, 51 Wabash avenue; George Stollery, E. Wienhoeber.

Cincinnati, O.—Albert Sunderbruch, chairman, care of Cincinnati Cut Flower Company, 437 Main street; James B. Allan, E. G. Gillett.

Exhibits to receive attention from the committees must in all cases be prepaid to destination, and the entry fee of \$2 should be forwarded to the secretary not later than Tuesday of the week preceding examination.

Anyone having a variety in season after dates fixed, can have the same passed upon by specially notifying the chairman of committees.

Toronto.

TRADE ONLY FAIR BUT STOCK IMPROVES WONDERFULLY.—PRICES ON THE UPGRADE.—ALL ABOUT THE FIGURES.—VARIOUS LOCAL NOTES OF INTEREST.

Trade is only of a fair average, as nothing of consequence has transpired during the past two weeks to make the retailers over-jubilant. The autumn races and a few social functions only called for decorations of the smaller order. Out of town orders keep coming in rapidly and growers are taxed to their full capacity. Stock has improved wonderfully and prices have gone up in consequence. Balduin is the latest acquisition to the rose crop and is very well liked. Stems are not as long as desired, as the plants are still small and will not allow cutting into severely. Ivory is also showing up much better and its very sweet odor finds it ready sale. Beauties are in very good condition. Stems are all a good length and compare favorably with a year ago, good blooms being quoted at \$20 per hundred. Meteors have also picked up considerably and these, with Bridesmaid and Bride are now quoted up to \$8 per hundred. Sunset and Perle are exceptionally good and these, with the other smaller teas, are quoted at \$6. Carnations have advanced, both in quality and price, first and second grade selling at \$3 and \$2 respectively. Some very good blooms of Lorna, Lawson, Crane, Morning Glory and Glacier seem the pick of most growers. Violets are plentiful, but excepting the stock of one or two growers, the quality is hardly up to the standard. Outdoor stock is about done for, the recent frosts having played havoc with dahlias and quite naturally chrysanthemums are holding the fort at present. Prices vary considerably, being quoted at from \$5 to \$15 per hundred, but as yet I have not seen any flowers worth the latter figure.

After the usual summer vacation, the

Florists' Club is again ready to resume business, on Tuesday, October 21, at St. George's Hall. As Toronto will be the meeting place of the C. H. A. in 1903, this subject will be brought up and all members are expected to be present.

Although the formal opening of the new Market House is to take place on November 1, many of the florists and gardeners installed their stands last Saturday. Quite a showing of palms and other plants was made, but the shortage of cut flowers was quite noticeable.

Coal is the uppermost topic of conversation with the growers at present. Owing to the scarcity of fuel of all kinds, several of the smaller growers are thinking of allowing their houses to freeze up for the winter.

There has been a great demand for palms and Boston ferns. Customers have also been clamoring for blooming plants, but aside from cyclamens there is little to offer.

Eugene Wintle, well known among the florists, and an authority on botany, fell from his buggy the other day, breaking his neck.

J. H. Dunlop is putting in a new boiler, larger than any of the present ones in his establishment.

The Steele Briggs Company is putting tile benches in the palm house and conservatory.

Manton Brothers are again on the market with cattleyas. H. G. D.

Washington.

GROWER HAS GOOD STOCK.—A PROMISING ADIANTUM.—TRADE NOT YET HEAVY.

J. R. Freeman has finished his new violet house 75x100 at his Brightwood place. His new foreman, Harry Rowe, has things looking in good shape. Four houses are in roses, American Beauty, Liberty, Perle, Carnot, Bridesmaid, Golden Gate and a white sport from Bridesmaid. Four houses are also in carnations, Mrs. Lawson, G. H. Crane, Mrs. Joost, White Cloud and others. His cyclamens are fine.

J. H. Ley has now about 20,000 of his new Adiantum hybridum. It is a distinct cross between Adiantum decorum and A. amabile, having the strong solid fronds of the former and the elegance of the latter. It will, he believes, supersede Adiantum cuneatum.

Trade has not improved much. Cosmos is very plentiful and chrysanthemums are making their appearance. P. G.

OBITUARY.

JACOB BECKERT.

Jacob Beckert, who was one of the oldest and most widely known florists in western Pennsylvania, died October 14 at his home at Troy Hill, Allegheny. He was 65 years of age.

JULES LEFEBVRE.

The death is announced of Jules Lefebvre, one of the best known chrysanthemum growers in the north of France, at 80 years of age. He was president of the Chrysanthemum Society of the North of France from 1894 to 1900.

EDNEY SMITH.

Edney Smith, one of the oldest residents of Waterloo, N. Y., died October 7 after an illness of many months with sarcoma of the face. He was born at Catskill, on the Hudson, but had resided in Waterloo since a mere lad, being in

his eighty-third year. He was one of the proprietors of the Smith & Kuney greenhouses and was well known as an experienced and skilled gardener and florist. He was an active member of the First Presbyterian Church of Waterloo, having been an elder for many years past, and was a most devout church member, as well as a highly esteemed citizen and business man. He was the third oldest member of Seneca Lodge, F. and A. M., of Waterloo, having united with that lodge in 1856, and his funeral was in charge of that order. He is survived by his wife, seven sons and a daughter.

MARSHALLTOWN, IA.—J. H. Wright, Jr., is now nicely installed in his new place at 113 North Third street.

BUTTE, MONT.—Richard Kirkham, manager of the State Nursery Company's retail store here, and Miss Gertrude O'Leary were married October 8.

SEBALIA, MO.—The winners from this section at the St. Louis fair last week included the Archias Seed Store, of this city, and George A. Shepherd and L. Luther, of Lamonte.

WORCESTER, MASS.—H. F. Littlefield has installed a complete outfit for heating his greenhouses by means of crude oil. For temporary purposes a tank holding sixty gallons of oil has been placed outside the building, and pipes run from it to the boiler room in the basement. The burners are attached directly to the main pipe at a slight cost. The oil runs through the pipes easily, as the tank is eight feet higher than the top of the burner. If the system is a success a huge tank holding 200 gallons of oil will be erected in place of the present one.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By good, all-around man; first-class grower roses, carnations and general stock; married. C. C. care Am. Florist.

SITUATION WANTED—By experienced florist and landscape gardener; also good decorator. Speaks English, German and French. Best of references. Address R. W. care Am. Florist.

SITUATION WANTED—By a carnation grower of 21 years' experience to take charge. Desire to make a change from present position by Nov. 1st. References. Address C. A. R. care American Florist.

SITUATION WANTED—As head gardener on private place; single, age 35; 17 years' experience, such as growing fruits and plants under glass, care of shrubs, lawn and vegetable garden. First-class references. Address

MATHEW ALEXANDER, 43 Custer street, Jamaica Plain, Boston, Mass.

SITUATION WANTED—To take charge of estate, private place or public institution, by competent, reliable, landscape gardener and florist; 22 years' practical experience; greenhouses, lawns, trees, shrubbery, vegetables, etc. No. 1 references. Permanent place, with fair wages, looked for. Address N. care American Florist.

WANTED—To correspond with Arthur Detrich. Apply to JOHN L. WYLAND, De Haven, Pa.

WANTED—A strictly sober and industrious young man for flower store. State wages wanted and references. Address K. C. care American Florist.

WANTED—Competent, trustworthy man, to run 3,000 feet of glass. State experience and wages wanted with board. UNION CITY GREENHOUSES, Union City, Pa.

WANTED AT ONCE—Experienced carnation grower, to take charge. State experience, wages wanted and other particulars. German preferred. Address N. M. care Am. Florist.

WANTED—Partner in greenhouse; well established place; party will have opportunity to buy. Must have from \$1000 to \$1500. Owner has other business. Address THE VAIL SEED CO., Indianapolis, Ind.

WANTED—Industrious, reliable young man to assist in general greenhouse work. One that can take care of lawn and flower beds during summer months. Address MRS. CLEM STUTTEBAKER, South Bend, Ind.

WANTED—A good florist; must be sober, honest and good worker; one capable of taking charge of medium sized place, and grow roses, carnations, mums and general stock; \$9 per month and board. Also one assistant, \$20 per month and board. Address S. Gibbs, Woodville, Pa.

FOR SALE—Horizontal tubular boiler 18x15 with plug hat dome and with 30 3/4-in. flues, very suitable for heating hot houses. Apply to WISCONSIN BOX CO., Wausau, Wis.

FOR SALE—\$1,000 buys the best greenhouse and equipment in Northern Iowa. Located in city of 15,000; easy terms, but must sell quick. A big chance to make money. Address MAHER & MAHER, Fort Dodge, Iowa.

FOR SALE—An old established greenhouse business; entire plant rebuilt; steam heat. With all the ground or part; also with or without residence. Situated in Cleveland, O. A bargain. Address O. K. care American Florist.

Bargain GREENHOUSES TO BE REMOVED—Boiler, pipes, Glass, sashbars, wind mill and tank; also some plants. Box 36, MORGAN PARK, ILL.

FOR SALE Established retail florist business, store, dwelling and five greenhouses, 1/2 acre ground, in city of 35,000, account of poor health of man and wife, will sell at a bargain, part time. Address EASTERN IOWA, care Am. Florist.

GLASS FOR SALE!

400 Boxes, 16x24 A. D. T., \$4.50 per box.
100 Boxes, 16x24 B. D. T., \$4.30 per box.
Original packages as received from the American Window Glass Co., price, f. o. b. cars, Jamestown, N. Y., subject to sale. Telegraph if wanted.

Lakeview Rose Gardens, Jamestown, N. Y.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, f. o. b. Grand Rapids, Mich. Will sell all or any part. Address

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

Exceptional Opportunity For Four Men

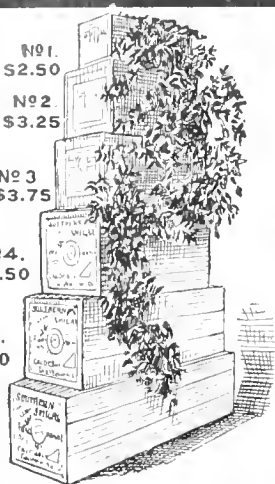
As follows: MANAGER and ASSISTANT for Cut Flower Commission Department.

ROSE GROWER.

CARNATION GROWER.

Thoroughly qualified men may address

A. M., care AMERICAN FLORIST.



YOU have been ordering Cut Flowers for the week and if you ordered from **DEAMUD** you got them.

Favorable weather has improved the stock and greatly reduced the prices. We are receiving daily the best

Valley, Violets, Beauties, Tea Roses, Carnations, Chrysanthemums.

J. B. Deamud,
51-53 Wabash Ave., Chicago.

Caldwell's Kwality Kounts Brand
Wild Smilax now on hand.

No. 1 \$2.50
 No. 2 \$3.25
 No. 3 \$3.75
 No. 4 \$4.50
 No. 5 \$5.00
 No. 6 \$6.00

E. H. Hunt,
WHOLESALE.....
Cut Flowers
THE "OLD RELIABLE,"

76 Wabash Ave., CHICAGO.

Poehlmann Bros. Co.
Wholesale Growers of
and Dealers in **Cut Flowers**

All telegraph and telephone orders given prompt attention. 35-37
GREENHOUSES: Morton Grove, Ill. Randolph Street, CHICAGO, ILL.

The F. R. WILLIAMS CO.
WHOLESALE FLORISTS.
Brides, Maids, Mothers, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.
Telephone Connections. CLEVELAND, OHIO.

Bassett & Washburn
76 & 78 Wabash Ave., CHICAGO.
Wholesale Dealers and Growers of **Cut Flowers**
GREENHOUSES: HINSDALE, ILL.

MCKELLAR & WINTERSON CO.
Supply Everything Used by Florists, Nurserymen, Gardeners, Seedsmen..... Cemeteries, Parks, Etc.
HEADQUARTERS on CUT FLOWERS
45-47-49 Wabash Ave.
Telephone Main 1129. ...CHICAGO

Wholesale Flower Markets

MILWAUKEE, Oct. 16.

Roses, Beauty, long, per doz.	2 00@2.50
" " med	1.00@1.50
" " short	.50@ .75
" Liberty	6.00@ 8.00
" Bride, Bridesmaid	4.00@ 6.00
" Meteor	4.00@ 6.00
" Golden Gate	4.00@ 6.00
" Perle	2.00@ 6.00
Carnations	1.50@ 3.00
Cosmos	.50
Adiantum	.75@ 1.00
Smilax	12.00@15.00
Asparagus	65.00
Common ferns	.25

The Cincinnati Cut Flower Co.,
437-439 Main St. WHOLESALE FLORISTS. CINCINNATI, O.
Consignments Solicited. Special Attention Given to Shipping Orders.

RICE BROTHERS
WHOLESALE FLORISTS and FLORISTS' SUPPLIES.
Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.
Special attention given to shipping orders. Send for price list of supplies.
128 N. Sixth St., Minneapolis, Minn.

PITTSBURG, Oct. 16.

Roses, Beauty, specials	25 00@31.00
" " extras	18.00@20.00
" " No. 1	10.00@15.00
" " No. 2	3.00@ 5.00
" Kaiserin	2.00@ 8.00
" Bride, Bridesmaid	2.00@ 6.00
" Meteor	2.00@ 6.00
" Liberty	2.00@ 8.00
Carnations	1.00@ 2.00
Chrysanthemums	8.00@21.00
Lily of the valley	2.00@ 4.00
Violets	.50@ .75
Smilax	6.00@15.00
Adiantum	.75@ 1.00
Asparagus	35 00@40.00
" Sprengerl	2.00@ 3.00

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.
Michigan Cut Flower Exchange.
Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around. BRONZE GALAX, \$1.00 per thousand.
28 Miami Ave., DETROIT, MICH.

Holton & Hunkel Co.
Wholesale Florists,
457 Milwaukee St., MILWAUKEE, WIS.
...GEO. M. KELLOGG...
Largest Grower of... Cut Flowers In the West.
Give us an order and we will please you.
Our Greenhouses at PLEASANT HILL, MO.
Our Store, 906 Grand Ave., KANSAS CITY, MO.
LONG DISTANCE 'PHONE AT EITHER PLACE.

CINCINNATI, Oct. 16.

Roses, Beauty	5.00@25.00
" Bride	2.00@ 4.00
" Bridesmaid	2.00@ 4.00
" Meteor	2.00@ 5.00
" La France	3.00@ 4.00
" Kaiserin	3.00
Carnations	1.00@ 3.00
Chrysanthemums	8.00@15.00
Lily of the valley	4.00@ 5.00
Asparagus	50.00
Smilax	12.00@15.00
Adiantum	1.00
Common ferns	.15

H.G. BERNING
Wholesale Florist
1322 Pine St., ST. LOUIS, MO.

Frank M. Ellis,
WHOLESALE FLORIST,
1316 Pine Street, ST. LOUIS, MO.
CONSIGNMENTS SOLICITED.

C. A. KUEHN,
Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

Galax AND Leucothoes.
Selected, Bright and Brilliant. Wholesale Trade Solicited.....
J. L. BANNER & CO., Montezuma, N. C.

St. Louis, Oct. 16.

Roses, Beauty, medium stem	10 00@25.00
" Beauty, short stem	3.00@ 8.00
" Bride, Bridesmaid	2.00@ 5.00
" Golden Gate, Carnot	2.00@ 6.00
" Meteor	2.00@ 6.00
Carnations	1.00@ 2.50
Chrysanthemums	10.00@25.00
Tuberosea	4.00@ 5.00
Lily of the valley	4.00
Smilax	12.50@15.00
Asparagus Sprengerl	1.50
" Plumosus	.75@ 1.00

Pittsburg Cut Flower Co. Ltd
WHOLESALE FLORISTS.
Pittsburg, Pa.
Please mention the American Florist when writing.

Chrysanthemums...

The 'Mums are with us for the season. **Monrovia, October Sunshine, Mrs. Robinson, White and Pink Glory of Pacific** are already available in quantity and other sorts about ready to cut. Stock is as fine as ever known.

Write, wire or phone your orders, also for Beauties, Orchids, Tea Roses, Carnations, or anything in season. Plenty of greens. "RIGHT GOODS AT RIGHT PRICES." Send a postal for free weekly Price List.

E. C. AMLING,

32-36 Randolph St.

L. Dis. Phones 1999 and 1977 Central.

Chicago, Ill.

The Largest, Best Equipped and Most Centrally Located Wholesale Cut Flower House in Chicago.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

KENNICOTT BROS. CO.

Wholesale Cut Flowers and Florists' Supplies.

42-44 Randolph St., CHICAGO.

WIETOR BROS.

Wholesale Growers of Cut Flowers

All telegraph and telephone orders given prompt attention.

51 Wabash Avenue, CHICAGO.

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.

600,000 FEET OF GLASS. Headquarters for American Beauty.

51 Wabash Ave., CHICAGO, ILL.

FRANK GARLAND,

Wholesale Grower of Cut Flowers

SPECIAL ATTENTION GIVEN TO HARDY CUT **FERNS** 65-57 WABASH AVENUE, CHICAGO. Telephone Central 3284

It is good business policyto mention the

American Florist

When you write to an advertiser.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.

WHOLESALE GROWER OF

CUT FLOWERS

Benthey & Co.

F. F. BENTHEY, Manager.

Wholesale Commission Florists

Consignments solicited. 31-35 Randolph St., Chicago.

Wholesale Flower Markets

CHICAGO, Oct. 17.		
Roses, Beauty, extra stems		4 00
" " 30-inch "		3 00
" " 24 " "		2 50
" " 20 " "		2 00
" " 15 " "		1 50
" " 12 " "		1 00
" " 6 to 8 " "	per 100	4 00@ 5 00
" Liberty.....		3 00@10 00
" LaFrance, Chateau.....		3 00@10 00
" Bride, Bridesmaid.....		2 00@ 5 00
" Meteor.....		2 00@ 5 00
" Perle.....		2 00@ 5 00
" Golden Gate.....		2 00@ 5 00
Chrysanthemums, per doz.,	\$1.00@	3 00
Violets.....		1 00
Carnations.....		1 00@ 3 00
Lily of the valley.....		4 00
Harrisii, per doz.,	\$2 00	
Asparagus, per string, .50		
Adiantum.....	.75@	1 00
Common ferns, per 1000,	1 50	.15
Galax leaves, per 1000,	1 25	.15
Smilax, per dozen,	1 25@	1 50

LILY OF THE VALLEY.

Extra fine cut Valley every day in the year. Fine cold storage pips. \$1.50 per 100; \$13.00 per 1000.

H. N. BRUNS,

1409-1411 W. Madison St., CHICAGO.

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO.

Send for weekly price list and special quotations on 1000 lots.

Please mention the American Florist when writing.

JOHN MUNO,

Wholesale Grower and Shipper of Cut Flowers

Room 221, 51 Wabash Ave., CHICAGO.

TELEPHONE CENTRAL 3598. All telegraph and telephone orders given prompt attention.

Please mention the American Florist when writing.

GEO. REINBERG,

Wholesale Grower of Cut Flowers

Choloe American Beauties.

We will take care of your orders at reasonable prices. Prompt attention.

51 Wabash Ave., CHICAGO, ILL.

Please mention the American Florist when writing.

VALLEY SAMUEL S. PENNOCK, ORCHIDS

Wholesale Florist,
1612-18 LUDLOW ST., PHILADELPHIA, PA.

Open from 7:30 a. m. to 8:00 p. m.

GEO. A. SUTHERLAND,
34 Hawley St., BOSTON.

Telephone 1270 Main.

BEST BOSTON FLOWERS. All Supplies.
An entire floor Devoted to Stock and Manu-
facturing. Distributing Agent for United States
for the wonderful



LETTER, unequalled for design
work. Script, any color, 3/4c a
letter. Block letters, 1/2c each.
The most elaborate design work
to order in a few minutes.

GENERAL AGENTS:

H. BAYERSDORFER & CO., Philadelphia.
REED & KELLER, New York City.

A FULL STOCK OF
**SEASONABLE
FLOWERS.**

CITY HALL CUT FLOWER MARKET

WELCH BROS., PROPS.

9 CHAPMAN PLACE, **Boston, Mass.**
15 PROVINCE STREET.

**THE
NEW YORK CUT FLOWER CO.**

55 and 57 West 26th St.,
WHOLESALE FLORISTS,

Daily Reports. Weekly Payments.
TELEPHONES: J. A. MILLANG,
2239 Madison Sq. 2034 Madison Sq. MANAGER.

GEORGE SALT FORD,
Wholesale Commission Florist,

46 West 29th Street, **NEW YORK.**

Fair dealing and prompt returns guaranteed.
Correspondence solicited.

Author of "How to Make Money Growing Violets."

ROVATZOS & MOLTZ

Buy and Sell... **FLOWERS** on Close Margin.

Headquarters, 56 West 26th Street,

WRITE, Opposite Cut Flower Exchange,
TELEGRAPH OR TELEPHONE. **NEW YORK CITY.**

N. F. McCARTHY & CO.

Best Quality
CUT FLOWERS
and Supplies,

Tel. 734 and 84 Main. 84 Hawley St., BOSTON.

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg, 6th Ave. and W. 26th St., New York.

Open for Cut Flower Sales at 6 o'clock
Every Morning

**DESIRABLE WALL SPACE TO RENT
FOR ADVERTISING.**

JOHN DONALDSON, Secretary.

Hardy Ferns...

Everything and anything in Florists'
Hardy Supplies at lowest prices. Esti-
mates on large orders on application.
Prompt delivery.

BOSTON FERN CO., 14 Brattle St.,
BOSTON, MASS.

Wholesale Flower Markets

BOSTON, Oct. 15.

Roses, Beauty, extra.....	10.00@25.00
" " medium.....	5.00@ 8.00
" " culls.....	.50@ 2.00
" Bride, Bridesmaid, Meteor	2.10@ 3.00
" extra.....	4.00@ 8.00
" Kaiserin, Carrot.....	3.00@ 8.00
Chrysanthemums.....	6.00@12.00
Carnations.....	1.50@ 2.50
Asters.....	.50@ 1.50
Lily of the valley.....	2.00@ 4.00
Adiantum.....	.75@ 1.00
Asparagus.....	.50 00
Smilax.....	12.50@18.00

PHILADELPHIA, Oct. 15.

Roses, Tea.....	2.00@ 4.00
" extra.....	4.00@ 8.00
" Beauty, extra.....	15.00@35.00
" firsts.....	8.00@12.00
" Queen of Edgely, extra.....	20.00@25.00
" firsts.....	10.00@15.00
Carnations.....	1.50@ 2.50
Chrysanthemums, per doz.,	1.50@3.00
Violets.....	.50@ 1.00
Lily of the valley.....	3.00@ 5.00
Asparagus.....	25.00@50.10
Smilax.....	12.50@15.00

BUFFALO, Oct. 16.

Roses, Beauty.....	6.00@25.00
" Bride, Bridesmaid, Meteor	3.00@ 6.00
Carnations.....	1.50@ 3.00
Chrysanthemums, per doz.,	\$2.00@3.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50



HARDY Cut Dagger and
Fancy Ferns.
A No. 1 quality \$1 per 1000.

Brilliant Bronze and Green
Galax, \$1 per 1000, in 5,000 lots.
Laurel Festooning, 4, 5 and
6c per yard. Orders by mail,
telephone or telegraph
promptly attended to. Dis-
count on large orders. L. D.
telephone 2618 Main.

HENRY M. ROBINSON & CO., 32-36 Court Sq., Boston.
Please mention the American Florist when writing.

If it is grown in **Florida,**
we supply it.

Florida grown CYCAS LEAVES, fresh or pre-
pared; PALM LEAVES, TRUNKS, CROWNS,
SPANISH MOSS, FLORIDA ORCHIDS,
"COONTIE", etc., etc.

Seminole Palm Co., Haines City, Fla.

Please mention the American Florist when writing.

FANCY OR DAGGER FERNS
1st quality, 75c per 1000. Discount on large orders.

BRONZE OR GREEN GALAX \$1.00 PER 1000.

LAUREL FESTOONING, just the thing for
summer decorations, only 4, 5 and
6c per yd. Discount on ferns
and laurel in large quantities.



Millington, Mass.
Tel. office, New Salem.

Galax Bronze, \$1.25 per 1000; Green,
\$1.00 per 1000. Southern Smilax,
best quality, 50 lb. case \$6.00;
35 lb. case \$4.50; 25 lb. case \$3.75. Leucothoe
Sprays, bronze and green, assorted sizes, \$1.00 per
100. Sphagnum Moss, \$1.50 per bale. Palm-
leaves, \$1.50 and \$2.00 per 100.

L. J. KRESHOVER,

110-112 W. 27th Street, **NEW YORK CITY.**
Telephone call, 597 Madison Square.

Southern Wild Smilax,

Long Needle Pines, Magnolia Leaves,
Mistletoe, Holly,
Palm Crowns and Palm Leaves.

Orders filled promptly at lowest prices consist-
ent with choice quality.

JOHN S. COLLINS, GENEVA, ALA.

Give Us a Trial. We Can Please You.



Roses, Carnations and all kinds of
Seasonable Flowers in stock.

WM. F. KASTING, Wholesale Com-
mission Florist.

481 Washington St., Buffalo, N. Y.
Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

Beauties and Valley Leo. Niessen,

IN QUANTITIES.

WHOLESALE FLORIST,

On and after Sept. 15th will be open from 7 a. m. till 8 p. m. until further notice.

N. W. Cor. 13th and Filbert Sts., Phila.

FLOWERS SHIPPED BY
JOHN I. RAYNOR

ARE THE BEST PRODUCT OF THE BEST GROWERS FOR THE NEW YORK MARKET.

PACKING RICES RUMPTNESS ALL RIGHT. 49 W. 28th Street, NEW YORK. Tel. 1998 Madison Square.

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Telephone 802 Madison Square.
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Telephone Nos. 2239 and 2034 Madison Square.



MOORE, HENTZ & NASH

Wholesale Commission Florists,
65 and 67 West 26th St., NEW YORK CITY.
Adjoining New York Cut Flower Co. salesroom.
Finest Salesroom in the Trade. Inspection Invited.
All business, selling or shipping, strictly commission.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.
Are supplying the most superb stock of FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.
SEND FOR QUOTATIONS.

VIOLETS. WILLIAM GHORMLEY, VIOLETS.
Wholesale Commission

Daily Receiver and Shipper of Fresh Cut Flowers.

Orchids, Roses, Carnations, Valley, Chrysanthemums.

Telephones 2100 and 2200 Madison Square.

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Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.
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THE RECOGNIZED HEADQUARTERS IN NEW YORK CITY FOR
Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.
WM. H. GUNTHER,
30 West 29th St., New York. Telephone 661 Madison Square.

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Open from 6 a. m. to 5. p. m.
Cut Flower Exchange, 55-57 W. 26th St. Phone 299 Madison Square. NEW YORK.

ESTABLISHED 1872.
JOHN J. PERKINS,
COMMISSION FLORIST,

Solicits Consignments or Shipping Orders. Satisfaction given in both.
Tel. 956 Madison Sq. 115 West 30th St., New York.

Bonnot Bros.

WHOLESALE FLORISTS.
55 and 57 W. 26th St., New York. Cut Flower Exchange.
OPEN 6:00 A. M.
An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.

Traendly & Schenck
NEW YORK CITY,

38 W. 28th Street, Cut Flower Exchange.
New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

NEW YORK, Oct. 15.

Roses, Beauty, select.....	12.00@25.00
" " medium.....	5.00@ 8.00
" culla.....	.50@ 2.00
" Bride, Bridemaid.....	1.00@ 6.00
" Liberty, Meteor, Kaiserin..	1.00@ 8.00
Carnations.....	.75@ 3.00
Violets.....	.25@ .50
Lily of the valley.....	2.50@ 3.00
Lilies.....	8.00@10.00
Dahlias.....	.50@ 1.00
Chrysanthemums.....	2.00@ 8.00
Special.....	15.00@25.00
Cattleyas.....	25.00@35.00
Smilax.....	8.00@10.00
Adiantum.....	.50
Adiantum Peter Crowe.....	1.25
Asparagus.....	35.00@50.00
" Sprenger, doz. bun.	2.00@3.00

RELIABLE AT ALL SEASONS.
Best Flowers.
REASONABLE PRICES.

J. K. ALLEN

Telephone 167 Madison Square.
OPEN AT 6 A. M. DAILY.
106 W. 28th St., NEW YORK.

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Receivers and Shippers of
FRESH FLOWERS,
111 West 30th St., NEW YORK.
Telephone 157 Madison Square.

Julius Lang

33 West 30th Street, NEW YORK.
REPRESENTS THE BEST GROWERS OF
ROSES, CARNATIONS, VALLEY.
TELEPHONE 280 MADISON SQUARE.

ALEX. J. GUTTMAN,
Wholesale Commission Florist,
A full supply daily of the choicest
New York and New Jersey
FLOWERS.

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BEST FLOWERS SHIPPED AT LOWEST
NEW YORK PRICES.
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NEW YORK: 45 West 29th Street. Tel. 2798 Madison Sq.
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EDW. C. HORAN

47 WEST 28TH ST.,
Tel. 421
Madison Square,NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

VISITED CHICAGO:—C. F. Crossland, manager of the Winnipeg, Manitoba, house of the Steele, Briggs Seed Company.

J. E. WOODBRIDGE-TRACY, representing the seed division of the U. S. Department of Agriculture, is visiting growers on the Pacific coast.

L. L. MAY & COMPANY, St. Paul, have put in new cleaners and elevators and erected a mammoth bin for beans and peas on the roof of their warehouse.

RED clover has joined the ranks of the scarce items this fall, the price having advanced a dollar per 100 pounds lately. The heavy rains are given as the cause of the shortage.

ALBERT DICKINSON, of Chicago, has purchased nearly half a million dollars worth of trackage property in the "Midway" district, between St. Paul and Minneapolis.

BOTH growers and seedsmen are discouraged with the continued poor crops of Gradus and Thos. Laxton peas. Perhaps Laxton Bros. should give us some better knowledge of how to grow them.

J. B. KIDD, for past three years with Elliott & Sons, New York, is leaving to take a place as travelling representative of the Cox Seed Company, San Francisco. He has thirty-two years' experience in this country.

THE Civil Service Commission on November 11 will hold examinations for positions as seed clerks in the U. S. Department of Agriculture. The positions pay from \$840 to \$1100 a year. Those desiring to take the examination should apply to the Civil Service Commission for application blanks.

THE reports of the Michigan tomato fields are very discouraging. On account of the cold and exceedingly wet weather of the last month the tomatoes have been very slow to ripen, also on account of the lack of sunshine, and as yet but little seed has been harvested. This also applies to radishes grown in that section. The probabilities are delivery will fall in many cases very much below the estimates made at the beginning of September.

THE floral novelties offered by Ernst Benary, Erfurt, include Chrysanthemum segetum, Helios; Delphinium elatum hybridum nanum; Hohenzollern aster, Crown Prince (brilliant carmine); Calceolaria hybrida grandiflora, Olympia; Dianthus Heddeewigi fl. pl., Fireball; Phlox Drummondii nana compacta radiata; Nasturtium Lilliput, Othello; Tropaeolum Lobbi Virehovanianum; Gaillardia grandiflora semi-plena; Viola cornuta rosea; and Single Comet aster, pure white. The only novelty offered in vegetables is the Crimson Giant Forcing turnip radish.

Buffalo.

A VARIETY OF PERSONAL AND TRADE NOTES.—UPS AND DOWNS IN THE CRAFT.

Trade is fair, with the supply of flowers limited. Chrysanthemums are better every day; some very good yellows are coming now. The usual number of small weddings is on for this week.

C. H. Keitseh is making a good display

in his store. While he is pretty far uptown there is a trade that would follow Charlie wherever he might go.

Violets from the east are very fine. Some good California are coming from Pierson, of Cromwell, Conn.

Brookins, of Orchard Park, is cutting about 6,000 carnations a week at present.

C. D. Zimmerman is looking forward to a good cut from his place this fall.

The political campaign will interfere with trade for the next three weeks.

Palmer's new store will be opened about October 20.

Mrs. W. F. Kasting has been ill for a week.

Bison.

OVER 2,000 ACRES IN CULTIVATION.

Braslan Seed Growers Co.

Growers for the Wholesale Trade Only.

Correspondence solicited.

SAN JOSE, CAL.



Rolling White Tipped Scarlet Turnip Radish seed crop 1902.

Headquarters for GLADIOLI

Over eighty acres under cultivation during the past Summer.

Unquestionably we have the largest and finest stock in existence, from which we supply the world.

Write for special prices on large quantities.

Wholesale Catalogue of GLADIOLI and other Summer flowering bulbs mailed free on application.

John Lewis Childs,
Floral Park, L. I., N. Y.



**BURPEE'S
SEEDS
PHILADELPHIA.**

Wholesale Price List for Florists
and Market Gardeners.

ESTABLISHED 1802

THORBURN'S SEEDS

Send for special low prices on
LILIUM HARRISII
stating the number you require. We have
unexpectedly received a large consign-
ment.

J. M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

GLADIOLUS.

Choice mixture of light shades and pinks and of Lemoinei and Childs; of all sized bulbs and any amount from one to fifty thousand.

Cannas, Golden Glow, Iris Kaempferi.
Choice varieties of **DAHLIAS**, all strong roots.
Write for prices.

RIVERDALE FARM, J. B. BRIDGE, Supt.
Grand Rapids, Wis.

Strictly New England GROWN SEEDS.

SPECIALTIES—Onion (Southport Globes), Turnip Seed and Sweet Corn, Beet, Parsnip, Carrot, Cabbage. We can answer all questions without finching as to quality and where grown.

The E. B. CLARK CO., Milford, Conn.

BUCKLEY'S October Special

Geraniums Extra strong, rooted cuttings well-rooted and correctly labeled. Varieties: Jean Vaud, \$2.00 per 100; S. A. Nutt, Alphonse Richard, Beaute Pot-vice, E. G. Hill, Frances Perkins, Mme. Jaulin, Mme. Brunt, Mehan, Morton, Gaar, La Favorite, Dutchess of Orleans, \$1.50 per 100, \$12.50 per 1000, in variety.

Verbenas Our 20th Century Collection, 25 new mammoth varieties, all labeled strong plants from 2 1/4-inch, \$1.50 per 100; \$12.50 per 1000.

Smilax Extra strong, 2 1/4-inch, equal to most 2 1/2 inch. \$1.00 per 100; \$8.00 per 1000.

Asp. Sprengeri Strong, 2 1/2-inch, \$2.00 per 100; 2-inch, \$1.25 per 100; \$10.00 per 1000.

Petunias Ten novelties from Dreer's latest sets, strong U. C. \$1.25 per 100.

Feverfew LITTLE GEM, rooted cuttings, 75 cents per 100.

Marguerites CHRYSANTHEMUM FRUTESCENS, both white and yellow, \$1.00 per 100.

Salvia Two best: St. Louis and Bonfire, 75 cents per 100.

The W. T. Buckley Plant Co., Springfield, Ill.



**H. Wrede, LUNEBURG, GERMANY
PANSY SEED.**

155 First Prizes, the highest awards Chicago, Hamburg 97, Paris 1900 1000 seeds, finest mixed, 25c. 1 oz. " " " " \$2.25

Price List on application. Cash with order.

Zirngiebel Giant Pansies.
Trade packages at one dollar each. Also plants of the above strains at \$5.00 per 1000, guaranteed equal to any that we ever sent out.

DENYS ZIRNGIEBEL, Needham, Mass.

Pansies Worth Raising.
Strong plants, \$4.00 per 1000; \$2.50 per 500; \$1.00 per 100, f. o. b. express here. Cash with order.

CHR. SOLTAU, 199 GRANT AVENUE, JERSEY CITY, N. J.

100,000 PANSIES.
Giant International, grown from the most expensive collections of seed from home and abroad, transplanted, fine, bushy, some in bud and bloom, by express, \$1.00 per 100; \$8.00 per 1000. From seedbed, \$5.00 per 1000. **Giant Pansies**, from finest American-grown seed, field-grown seedlings, 50c per 100, by mail; \$3.00 per 1000, by express. Also **Daisies** and rooted cuttings of bedding plants. **LUDWIG MOSBAEK, 8500 ANTHONY AVE., SOUTH CHICAGO, ILL.**

Pansy Plants.
MME. PERRET, the finest strain on the market, large plants that will bloom soon at 50c per 100; \$3.50 per 1000; 3,000 for \$10.00.

J. C. SCHMIDT, BRISTOL, PA.

BARGAIN.
Pansy Plants Imported seed from Germany of Roemer's Giant Pansies, per 100, 35c; per 1000, \$2.50. Will also exchange for Boston Ferns or Small Palms. Cash please.

A. SCHOEPEN, MARIETTA, OHIO.

PANSY PLANTS The famous DIAMOND strain of large-flowered pansies. Flowers of perfect form, with thick velvety petals. Over 60 distinct sorts and an endless variety of tints and markings. Fine, stocky plants, with 5 or 6 leaves, all colors mixed, \$3.50 per 1000; 500 for \$2.00, by express. 75c per 100; 250 for \$1.50, by mail, postpaid. Cash with order.

L. W. COODELL, Pansy Park, Dwight, Mass.

CANNAS.

Strong Field-Grown Clumps.
Duke of Marlborough, Florence Vaughan, President Cleveland, Charles Henderson, A. Bouvier, Robert Christie, Queen Charlotte, Sophie Buchner and Austria, \$15 00 per 100
Egandale, Sou. de Antoine Crozy, Sam Trelease, President Carnot, Chicago, Beaute Poitevine and Martha Washington, \$25 00 per 100.
Save heavy express charges by ordering at once by freight.

The Storrs & Harrison Co. PAINESVILLE, OHIO.

We have the largest stock of
ARAUCARIA EXCELSA
in the country, May importation, raised from top cuttings only.

5-inch pots, 3 tiers, 10 inches and above.....\$.50
5 1/2-inch pots, 12 to 14 inches.....60 to .75
6-inch pots, 15 to 18 inches.....75 to 1.00
Specimen.....1.25

KENTIA FORSTERIANA and BELMOREANA.
5 1/2 to 6-in. pots, 25 to 30 inches high. .75

FICUS ELASTICA, 5 1/2 to 6-in., 18 to 24 inches high, from \$4.00 to \$5.00 per doz.

BOSTON FERNS, 6-inch pots......40
Cash with order please. To save express mention if pots to be taken off.

GODFREY ASCHMANN,
WHOLESALE GROWER and IMPORTER OF POT PLANTS,
1012 Ontario Street, PHILADELPHIA, PA.

ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong, 2 1/2-inch, \$3.50 per 100.
SPRENGERI, strong, 2 1/2-inch, \$2.50 per 100.

BOSTON FERNS.
From bench fit for 3, 4, 5, 6, 7 and 8-in., 2 1/2c, 5c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA
Extra fine, 4 to 7-inch pots, only 12c per leaf.
25 FINE RUBBER PLANTS, 3 feet, \$1 each, or the lot for \$20.00. CASH PLEASE.

A. J. BALDWIN, NEWARK, OHIO.

ASPARAGUS SPRENGERI
from Flats, \$1 per 100; \$7.50 per 1000.

PANSY WESTERN GIANT FLOWERING
Trade pkt., 10c; \$2.00 per oz.

ASPARAGUS SPRENGERI
1,000 Seeds, \$1.50.

WESTERN CARNATION CO.
E. N. FANCHER, Mgr. LOOMIS, CAL.

HARDY PINKS
Comet, Souv. de Sale, Earle of Carlisle, May, Gertrude.
Field Clumps, \$6.00 per hundred.
The Conard & Jones Co., West Grove, Pa.

Fine Grafted **ORANGES** Bearing Sizes.
Per 100

12 inch, bushy, from 4-inch pots..... 30.00
15-18 inch, bushy, from 4-inch pots..... 30.00

Kin Kans 10-12 in., bushy, from 4-in. pots 20.00
15-18 in., bushy, from 4-in. pots 30.00

Lemons 12-15 in., bushy, from 4-in. pots... 20.00
18-24 in., bushy, from 4-in. pots... 30.00

Roses Climbing Aethalide Souper, strong field-grown..... 10.00
Crimson Rambler, str. field-grown 7.00

Clematis Apiifolia A fine variety, somewhat similar to C. Panniculata, but blooms earlier and lasts longer; strong plants from 3-inch pots... 8.00
(Not less than 10 of a class at 100 rate.)

Citrus Trifoliata (Best defensive hedge plant.) Per 1000
Strong, 2 year old, field-grown.....\$15.00
Strong, 3 year old, field-grown..... 20.00

Amoor River Privet (Better than California Privet.)
18-24 inch, branched..... 15.00
24-36 inch, branched..... 20.00
Not less than 400 of a class at these rates.

Rubbers, Kentias, Phoenix, Latanias, Pandanus, Ornamental Trees and Shrubs in large quantities.

WRITE FOR CATALOGUE.....

P. J. BERCKMANS CO. (Inc.)
FRUITLAND NURSERIES,
Established 1856. AUGUSTA, GA.

A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

KENTIA Belmoreana and Forsteriana, extra clean and well grown plants, 2 1/2, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

REX BECONIA, 2 and 3-inch, \$4 and \$6 per 100.

BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.

ASPARAGUS Plumosus, 2-inch, \$5; 3-inch, \$8. Sprengeri, 2 inch, \$3; 3-inch, \$5, per 100.

DRACAENA INDIVISA, 4, 5-in., \$10, \$25 per 100.

ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100.

CAMPBELL VIOLETS, 3-inch, \$4.00 per 100.

CERANIUMS, rooted cuttings, standard varieties: your choice \$1.25, my choice \$1.50 per 100.

VINCA VAR., 3-inch, \$4.00 per 100.

CINERARIA, 2-inch, \$2.00 per 100.
Chinese Primrose, 2-in., \$3; 3-inch, \$5 per 100.
Cash or C. O. D.

PANSIES

Roemer's Suporb Prize Pansies. The World's Best.
STONG, FINE STOCKY PLANTS, Mixed colors, by mail, 75 cents per 100; by express, \$1.00 per 1000; \$7.00 per 2000; \$10.00 per 3000; \$15.00 per 5000; \$25.00 per 10,000.
Large plants in bud and bloom, \$1.25 per 100; \$10.00 per 1000.
CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

CYCLAMENS.

Well set with buds, 4-inch, \$12.00; 5-inch, \$18.00 and \$25.00.
CINERARIA, 3-inch strong, frame grown, \$5.00.
PRIMROSES, 4-inch, \$8.00.
Field-grown **ASPARAGUS SPRENGERI,** \$3.00, \$5.00, \$7.00 per 100.

Christ. Winterich, Deliance, Ohio.

JOSEPH HEACOCK,
WYNCOTE, PA.
GROWER
...Of...
ARECA LUTESCENS,
KENTIA BELMOREANA,
COCOS WEDDELIANA.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAR. A. LOENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

THE Chases are among the incorporators of the Eureka Orange Company, of Riverside, Cal.

THE Association of Horticultural Inspectors of the United States and Canada has been in session at Atlanta, Ga.

A NATIONAL congress of apple growers will be held at St. Louis, November 18 and 19. C. S. Wilson, Hannibal, Mo., is secretary.

THE Franklin County Nursery Company, Winchester, Tenn., has been incorporated, capital stock \$10,000, incorporators E. E. Bohn, F. M. Grizzard, C. F. Pitsinger, T. E. Sipes and I. W. Crabtree.

A Privet Hedge.

ED. AM. FLORIST:—On the north front and east side of my city lot I have a fine hedge of California privet. It was planted about twelve years ago and I keep it trimmed to a height of about three and a half feet. By reason of good advice it has been clipped well rounded and not squared on top, and the barbering has been done most artistically. It is also well mulched in winter, and always appears as one of the handsomest privet hedges hereabouts. Nevertheless it is getting very thin at the bottom, particularly on the north front, and I would be greatly obliged if you could advise a remedy. I have thought that this fall I might do well to cut it back severely, to about two feet in height and width. But I would like to have good counsel in the matter from someone in authority. D.

As the hedge in question is getting thin at the base, there is no remedy except cutting it back severely, so as to force it to break away freely from the bottom; and of course the lower it is cut down, the lower it will be induced to become thicker at the base. I would advise cutting it back to about fifteen or eighteen inches from the bottom. If the bottom of the hedge is kept cultivated, and well supplied with rotted manure it will soon be in good condition again.

JOHN DUNBAR.

ROCHESTER, N. Y.—George A. Parker, superintendent of Keney Park, Hartford, Conn., lectured on park subjects before the American Society of Municipal Improvement on the evening of October 7. Mr. Parker said that one-twentieth of every city's area should be reserved for parks and squares.

3,000 CALIFORNIA Privet

12 to 18 inches, branched, strong, at \$9.00 per 1000. Cash.

HENRY EICHHOLZ, Waynesboro, Pa.

MANETTI

ROSE STOCKS, English grown, especially graded for Florists' grafting. Write for prices. Headquarters for RAFFIA WHOLESALE DEPT. Thomas Meehan & Sons, Inc., Dreshertown, Pa.

THE GLENWOOD NURSERIES

EVERGREENS.

The largest and most complete assortment of SPECIMENS, sheared and of natural form. All root pruned and carefully grown.

EVERGREEN TREES, EVERGREEN SHRUBS and VINES for window boxes and Winter decorations.

DECIDUOUS TREES.

20,000 Oriental Plane Trees, 6 to 14 feet. 25,000 Oaks, in variety, 6 to 14 feet. 100,000 Maples, in variety, 8 to 18 feet. Beech, Birch, Ash, Elms, Ginkgo, Poplars and other leading varieties.

HEDGE PLANTS.

200,000 California Privet, 1 to 4 feet. The finest grown. Osage Orange, Berberis Thunbergii, Althaea, etc.

SPECIAL QUOTATIONS TO LARGE BUYERS. NEW TRADE LIST NOW READY. DESCRIPTIVE ILLUSTRATED CATALOGUE ON APPLICATION.

FLOWERING SHRUBS.

15,000 Hydrangea Paniculata Grandiflora, 1 to 4 feet.

5,000 Deutzias (Gracilis and Lemoinei), for forcing.

A complete assortment of Shrubs of all sizes, including quantities of large shrubs for immediate effect plantings, as well as smaller grades.

CLIMBING VINES

5,000 Ampelopsis Veitchii, 1 and 2 years.

20,000 Hall's Japan Honeysuckle.

20,000 Clematis Paniculata.

English and Irish Ivies, Wistarias and other vines.

Crimson Rambler, Wichuraiana and other climbing and running roses.

THE WM. H. MOON CO., Morrisville, Pa.

60 MILES FROM NEW YORK.

30 MILES FROM PHILADELPHIA.

California Privet.

Any Size Desired up to 6 Feet.

Contracts for immediate and future delivery solicited.

Very attractive prices on car load lots, either of a single size or assorted sizes.

J. T. LOVETT, LITTLE SILVER, N. J.

B. & A. SPECIALTIES

AZALEAS, all sizes and varieties.

KENTIAS, 2-inch pots to 10 ft. specimens.

DUTCH, FRENCH, CHINESE and JAPANESE

BULBS in all varieties and at reasonable prices.

ASK FOR FALL CATALOGUE.

BOBBINK & ATKINS, Rutherford, N. J.

100,000 PANSIES

Highest Grade, Finest Stock. The Jennings Strain.

Mr. John Lewis Childs, of Floral Park, N. Y., says of the Jennings Strain: "The largest and finest colored flowers I have ever seen." By mail 75c per 100; by express, \$4.00 per 1000; 3,000 \$11.00; 5,000 \$18.00. Separate colors same price. Large plants ready to bloom Oct. 1st, \$1.00 per 100; \$8.00 per 1000. SEED, \$1.00 per pkt.; \$5.00 per oz. CASH WITH ORDER.

E. B. JENNINGS, Lock Box 254, Southport, Conn. Grower of the Finest Pansies.

PAEONIAS FOR FALL...

10 distinct, best kinds, \$10.00 per 100.

Ampelopsis Veitchii, 2 year, strong... \$1.00 per doz. Clematis Paniculata, 2 year, strong, \$1.00 per doz.; \$7.00 per 100.

Clematis, large flowering, \$2.50 per doz.; \$16 per 100.

F. A. BALLER, Bloomington, Ill.

600,000 CAL. PRIVET

1, 2, 3 and 4 YEARS OLD.

1, 2, 3 and 4 FEET.

1, 2, 3 and 4 DOLLARS PER 100.

Write for 1000 Rates and Trade List.

J. H. O'HAGAN,

River View Nurseries. LITTLE SILVER, N. J.

25,000 Rudbeckia The Glow Clumps, \$3.00 per 100; \$25.00 per 1000.

25,000 Boltonia Asteroides Clumps, \$4.00 per 100, \$35.00 per 1000. and thousands of other varieties of

Hardy Herbaceous Plants.

150,000 ASPARAGUS,

Conover's Colossal, etc., and a full line of Trees, Shrubs, etc. Send for catalogue.

CENTRAL MICHIGAN NURSERY, Kalamazoo, Mich.

Primroses

Per 100

CHINESE, single, mixed, 2 1/4-in. pot, strong \$1.50

ASPARAGUS SPRENGERI, 2 1/4-inch pots 2.00

NARCISSUS, Paper White Grandiflora, strong 3.00

PANSY PLANTS, \$3.00 per 1000; .60

CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

Dreer's Importations of Azaleas

Our importations of Azaleas have arrived and we have commenced shipments. If you have not yet placed your orders we would advise you to do so at once, in order to secure low fall prices, as well as to take advantage of low cost of transportation while shipments can still be made by freight.

We are in position to give you best qualities because our growers are among the most skilled specialists in Belgium. We can give you best values because we are not only the most extensive importers of these plants to the United States, but also because we buy for cash at best prices and give our customers the benefit of these important points.

10 to 12-inch crowns, bushy plants.....	\$4.50 per dozen	\$35.00 per 100
12 to 14-inch crowns, bushy plants.....	6.00 per dozen	48.00 per 100
14 to 16-inch crowns, bushy plants.....	7.50 per dozen	55.00 per 100
16 to 18-inch crowns, bushy plants.....	12.00 per dozen	90.00 per 100
18 to 20-inch crowns, bushy plants.....	25.00 per dozen	200.00 per 100
20 to 24-inch crowns, bushy plants.....	36.00 per dozen	300.00 per 100

We can still include in assorted lots ten per cent Mme. Van der Cruyssen, this variety being very scarce this season.

EXCEPTIONAL VALUES IN ARAUCARIA EXCELSA

The two sizes of Araucaria Excelsa offered below are the greatest values we have ever offered in this plant and you will make a mistake if you don't secure a supply for your Holiday trade:

6-inch pots, 20 to 24 inches high, 4 tiers.....	\$1.00 each
6-inch pots, 24 to 28 inches high, 4 to 8 tiers.....	1.25 each
7-inch pots, 30 to 32 inches high, 5 to 6 tiers.....	1.50 each

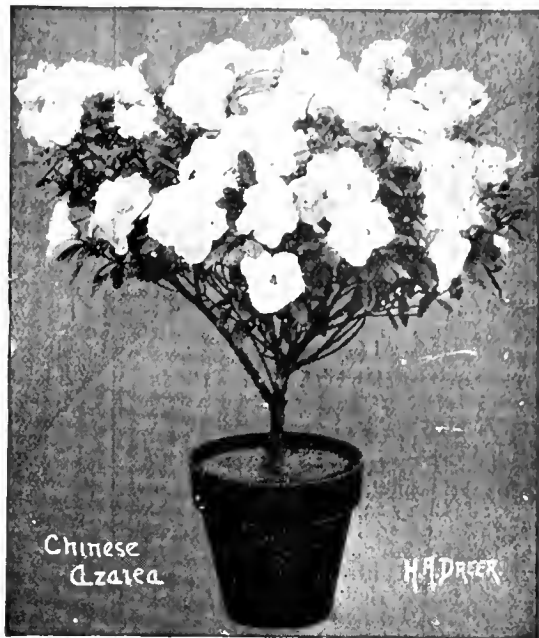
RUBBER PLANT—FICUS ELASTICA.

An exceptionally fine lot of 5-inch pots, plants well furnished, fifteen inches high, \$4.50 per dozen; \$35.00 per 100.

For a full and most complete line of Palms, Ferns and all Decorative Plants, see our QUARTERLY WHOLESALE LIST.

Hardy Perennial Plants, Paeonias, Phloxas, etc., etc., are one of our important specialties. We are carrying an immense stock of these popular plants. Write us for anything you may require in this line.

HENRY A. DREER, PHILADELPHIA, PA.



Princess of Wales and Lady Campbell VIOLET Plants

Strong field-grown clumps from sand struck Cuttings. \$5.00 per 100; \$35.00 per 1000; Samples 10 cents.

The Albert H. Brown Co., Westboro, Mass.

PRINCESS OF WALES VIOLET PLANTS.

I have a few thousand of these at \$7.00 per 100. Will plant about 15x15.

WM. SIM, CLIFTONDALE, MASS.

VIOLETS

Imperial, field-grown, \$3.50 per 100, medium plants. Imperial, M. Louise, Swanley White, 8-inch pots, \$3.75 per 100; \$35.00 per 1000. Lady Campbell, \$3.50 per 100; \$30.00 per 1000.

SMILAX 3-inch, fine plants, \$2.00 per 100 to close out.

CRABB & HUNTER, GRAND RAPIDS, MICH.

DRACAENA INDIVISA

Pot grown strong healthy plants in 6-inch pots, \$35.00 per 100.

P. R. Quinlan & Co., Syracuse, N. Y.

BEGONIA GLOIRE DE LORRAINE, Begonia Light Pink Lorraine,

For July and Later Delivery, \$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near Chestnut Hill, Pa.

Please mention the American Florist when writing.

Asparagus Sprengeri,

our specialty, 2-in., \$2.00; 2½-in., \$2.50; 2¾-in., \$3.00; 3-in., \$4.00; 4-in., \$8.00 and \$10.00 per 100. Special rates on large lots.

J. H. BORNHOEFT, TIPTON, IND.

PALMS, FICUS, AZALEAS, Etc.

PALMS.

KENTIA BELMOREANA, 2½-in. pots, \$6.00 per 100; \$50.00 per 1000.

KENTIA BELMOREANA, 3-in. pots, \$12.00 per 100; \$100.00 per 1000.

KENTIA BELMOREANA, 24 to 28 inches, fine bushy plants, \$1.25 each; \$15.00 per doz.

KENTIA BELMOREANA, 30 to 32 inches, perfect condition, \$1.75 each; \$20 per doz.

CYCAS REVOLUTA, 6oc. \$1.00, \$1.25 \$1.50 and \$2.00 each.

AZALEAS. 10 to 12-in. crowns, \$35 per 100.
" 12 to 14-in. crowns, \$45 per 100.
" 14 to 15-in. crowns, \$55 per 100.

FICUS, TRUE BELGIAN VARIETY.

4-in. pots, heavy strong stock, \$25 per 100.
4-in. pots, lighter plants, \$15 per 100.

BOSTON FERNS, 2½-in. pot, \$4.00 per 100.

" 4-in. pot, \$15.00 per 100.

" 5-in. pot, \$25.00 per 100.

PRIMULA CHINENSIS, 2½-in. pots, \$2.50 per 100.

The Storrs & Harrison Co. PAINESVILLE, OHIO.

Calif'nia

ASPARAGUS PLUMOSUS,

Extra fine 3¼-inch stock, \$4.00 per 100; \$35.00 per 1000. 4¼-inch, \$8.00 per 100.

EXPRESS PREPAID.

Pansy Seed, 1902 Giant of California.

\$4.00 per ounce, ¼ ounce at same rate.

FIELD-GROWN CARNATIONS,

QUEEN LOUISE.....\$7.00 per 100

MERMAID.....6.00 per 100

LOOMIS FLORAL CO., Loomis, Cal.

To Make Room We Offer:

200 3-in. INTERNATIONAL CHINESE PRIMROSES, \$4.00 per 100; 100 2½-in., \$2 per 100. Fine Cash. Hammerschmidt & Clark, Florists, Box 234, Medina, O.

Geraniums.

Unrooted cuttings, S. A. Nutt, Jean Vland, La Favorite and Clyde, \$10 per 1000; 2½-inch, \$20.00 per 1000.

ASPARAGUS PLUMOSUS NANUS, 2½-inch, fine for dishes, \$5.00 per 100; \$40.00 per 1000. ASPARAGUS SPRENGERI, field-grown, \$3 and \$5 per 100.

SMALL FERNS, for dishes, in 6 best varieties, at \$3.00 per 100; \$25.00 per 1000.

BOSTON FERNS, from bench, fine plants, fit for 4, 5 and 6-inch pots at \$15, \$20 and \$25 per 100; 2½-inch, \$3.00 per 100; \$25.00 per 1000.

CHRISTMAS PEPPERS, 4-inch, \$5.00 per 100.

ADIANTUM CUNEATUM, 4-inch, \$6.00 per 100.

CASH PLEASE.

Carl Hagenburger, W. Mentor, Ohio.

Violets

Strong field-grown Marie Louise, \$5.00 per hundred. Cash with order.

I. N. KRAMER & SON, Cedar Rapids Iowa

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kiff, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

At New York.

At the meeting Monday evening, October 13, the following officers for the New York Florists' Bowling Club were elected: President, W. H. Siebrecht; secretary, W. C. Mansfield; treasurer, Lawrence Hafner; captain, Theodore Lang.

At Chicago.

The bowling club is the talk of the day, much interest in the Milwaukee contest next August being already displayed. Go where one will throughout the city or in the suburbs, it is bowling, the bowling club, everlastingly bowling. It is a good sign, as Dooley says, and no doubt much good will come of it. But this commendable enthusiasm must not be allowed to burn itself up in little bonfires which are speedily lost to view. It seems preferable, rather, that this awakened sentiment in favor of the bowling club be carefully concentrated and conserved for a glowing conflagration which will not only burn up Milwaukee but every other city that sends a team to the next national contest. This is evidently the intention of the bowling club president, P. J. Hauswirth, who saw our bowling man this week and announced that he desired all persons of the trade interested in bowling, whether or not they are members of the club, to attend a meeting which will be held at McKellar & Winterson's, 45 Wabash avenue, October 23, at 8 p. m., with a view to forming a local trade league. As many as possible should attend in order that the proposed league may be given a bounding start. You, of course, will be there.

The Florists are not breaking many records in the Illinois League, although they did catch the redoubtable Anson team napping one game. On October 10 they rolled the following score:

Florists	1st	2d	3d	T'l
Balluff	145	182	191	518
P. Stollery	169	151	157	477
Hauswirth	162	164	140	466
Winterson	189	151	127	467
Asmus	135	147	187	469
Total	800	795	802	2397
VESTIBULES	872	898	889	2659

Kansas City.

TRADE BRISK AND ALL GOOD STOCK MOVING RAPIDLY.—GROWERS PREPARING FOR THE BIG FLOWER SHOW.—PERSONAL AND TRADE NOTES OF LOCAL INTEREST.

Almost all stock was scarce the past week, especially Beauties. Everything brought good prices and carnations sold at a premium. A few chrysanthemums helped ease the market the latter part of the week and brought good prices for early varieties.

John H. Vesey, who has the old Baker Brothers' place, has the plant in good condition this fall and is cutting some good carnations and chrysanthemums. His Lawson and Triumph are extra. He expects to show chrysanthemums at the Kansas City flower show.

R. S. Brown & Son report trade good and are sending in some fine chrysanthemums.

They expect to supply Kansas City with the Pierson fern next fall, which they believe is a good thing.

A. F. Barbe has enlarged his place the past season and is growing good stock. He has some chrysanthemums that will be hard to beat. The stems on the later varieties are from six to seven feet long and very stiff.

W. L. Rock had a large decoration at Convention Hall for the Priests of Pallas ball, October 8, which is one of the society events of the season. He reports trade unusually good for this time of the year.

Sam'l Murray is growing a fine lot of pot chrysanthemums for the flower show. He has devoted all his houses to growing this class of chrysanthemums and expects to make a good showing.

John Thorpe has come to remain until after the flower show. He requests all exhibitors to make early entries, so there will be no trouble in getting space.

Fred. Weber, who has charge of Geo. M. Kellogg's Grand avenue store, says

business has been very good and no trouble to sell good stock.

A. Newell and all the retailers report brisk business in carnival week; much ahead of last year. C. W. S.

Helena, Mont.

The employes of the State Nursery Company, their families and a few friends, on their annual picnic this year went to the Missouri River dam. This dam furnishes electric power for the capital city, and also for the largest mining camp in the west, Butte. We went in two trolley coaches. There were thirty-two persons in the party, and a quantity of provisions. Some of the party went fishing, while several of the others took a ride in a steam launch on the Missouri river 3,000 miles from its mouth. J. J.

RIO VISTA, VA.—Mark T. Thompson's acres of dahlias are now very fine. The outdoor chrysanthemums will be very attractive a little later.

Cut Gladiolus Spikes

of the HIGHEST QUALITY, in lots of from 100 to 100,000. Pink, scarlet, crimson, white, light, yellow, blue, lavender and heliotrope; in fact, almost every shade imaginable.

Write for prices and particulars, stating your requirements.

ARTHUR GOWEE, "Meadowdale Farm," Long Dist. Phone, BERLIN, N. Y. U. S. Representative and Grower of GROFF'S HYBRIDS.

Watch this space for bulb advertisement later.

FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)

Write, Wire or Phone the Introducers, Caldwell The Woodsman Co., Evergreen, Ala. or their agents: L. J. Kreshover, New York; J. B. Deamund, Chicago; H. Bayerdorfer & Co., Philadelphia; W. F. Kasting, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.

M. L. HENDERSON, of Laurelbranch, N. C.

is located in the mountains of North Carolina, where as fine a galax leaf grows as grows in the world (green or bronze). Price given on application. Wholesale trade solicited.

Boston Ferns,

2, 3, 4, 5-inch. Write

Geo. L. Miller, Newark, Ohio.

The COTTAGE GARDENS,
QUEENS, L. I.

SEND FOR PRICE LIST OF

Paeonias, Herbaceous Plants, Phlox, Azaleas, Specimen Trees and Shrubs.

Orchids!

Arrived in fine condition: CATTLEYA TRIANE. The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

Lager & Hurrell, SUMMIT, N. J. Orchid Growers and Importers.

ROBT. CRAIG & SON,
Roses, Palms

and Novelties in Decorative Plants,
Market and 49th Sts., Philadelphia, Pa.

Ericas, Palms

Flowering Plants and Bay Trees.

Cut blooms of LILY OF THE VALLEY at all seasons, \$3 and \$4.00 per 100.

Write for my Wholesale Catalogue.

ANTON SCHULTHEIS, College Point, N. Y.

Orders booked now—delivery in September—for my Nephrolepis Fern

"ANNA FOSTER"

Small plants, \$25.00 per 100; larger plants prices on application. BOSTON FERN now ready at \$25 and \$50 per 100. L. H. FOSTER, 45 King St., Dorchester, Mass.

Chicago Carnation Co.
Joliet, Illinois.

POT-GROWN CHRYSANTHEMUMS.

5 and 6-in., all the best varieties; first-class, bushy plants, none better, 15c and 18c. Will exchange.

DANIEL E. GORMAN, Williamsport, Pa.

LOOK OUT 5,000 CAMPBELL VIOLET CLUMPS, clean and healthy. Cash price \$3 per 100. 2 1/4-in., \$1.50 per 100. By the violet grower. A. B. CAMPBELL, Cochranville, Pa.

"Fumigation Methods"

BY PROF. JOHNSON.

Every Grower needs this book..... Price \$1.00

AMERICAN FLORIST COMPANY,
324 Dearborn Street,CHICAGO.



JUST ARRIVED, SPECIAL IMPORTATION AZALEAS.

All the best sorts, such as Bernard Andrea Alba, Deutsche Perle, Vervaeneana, Simon Mardner, Mme. Van der Cruyssen, Virginiana, Empress of India, and many others.

PRICE IN ASSORTED LOTS, FOR EARLY ORDERS:

10 to 12-inch crowns, bushy plants.....	\$40.00 per 100
12 to 14-inch crowns, bushy plants.....	50.00 per 100
14 to 16-inch crowns, bushy plants.....	60.00 per 100
16 to 18-inch crowns, bushy plants.....	\$12.00 per doz.
18 to 20-inch crowns, bushy plants.....	25.00 per doz.
20 to 22-inch crowns, bushy plants.....	30.00 per doz.
22 to 24-inch crowns, bushy plants.....	36.00 per doz.

We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

BOSTON FERNS.

Extra choice lot of compact, bushy, pot-grown plants.

2 1/2-inch pots.....	\$5.00 per 100	5-inch pans.....	\$40.00 per 100
3-inch pots.....	10.00 per 100	6-inch pans.....	9.00 per doz.
4-inch pots.....	25.00 per 100	7-inch pans.....	12.00 per doz.

VAUGHAN'S SEED STORE, 14 Barclay Street, New York.
84-88 Randolph St., Chicago.
GREENHOUSES, WESTERN SPRINGS, ILL.

ASPARAGUS SPRENGERI

These plants have short tops and extra strong roots. Are cheaper and give quicker returns than pot-grown stock. \$4.00, \$6.00 and \$8.00 per 100, according to size.

BEGONIA REX, best named varieties. Special price to make room, from 2 1/2-inch pots, \$4.00 per 100.

BEGONIA INCARNATA, the most useful begonia for winter flowering, 3-inch pots, \$8.00 per 100.

CAREX JAP. VARIEGATA, a useful decorative grass, from 2 1/2-inch pots, \$2.50 per 100.

CINERARIA STELLATA, from 2 to 4 feet high, well branched and covered with a mass of medium sized blooms. The plants make a most effective display, either as a specimen or in groups.

CYPERUS ALTERNIFOLIUS, bushy outdoor-grown plants in 3-inch pots, extra strong, ready for a shift, \$4.00 per 100.

VIOLETS, CALIFORNIA, field-grown, second size, \$3.00 per 100.

PRIMROSES, (Chinese). After several years of careful tests, we are now able to offer stock from the finest imported seed. Can guarantee satisfaction. From 3-inch pots, in white, light pink, scarlet and blue, \$5.00 per 100.

Nathan Smith & Son, Adrian, Mich.

GERANIUM

100,000 Cuttings in the Sand.

These will be ready in November at the following prices. S. A. Nutt, Buchner, Heteranthe, \$1.25 per 100; \$10.00 per 1000. Perkins, Poitevine, Landry, Ricard, \$2.00 per 100; \$15.00 per 1000. Jean Viaud and M. de Castellane, \$2.50 per 100; \$20.00 per 1000. Bannot, Castris, Acteon, Harrison, La Favorite, America, La Pilot and Jaulin in small quantities at \$1.50 per 100.

Pansies

500,000 Ready Now AND UNTIL DEC. 1st.

You make no mistake when you buy Herr's Pansies, they are the kind that make you money when they come into bloom. Free by mail at 75c per 100; by express, \$4.00 per 1000.

ALBERT M. HERR, Lancaster, Pa.



ARECA LUTESCENS, per doz.—2 1/4-inch, 75c; 3, \$1; 3 1/2, \$2; 4, \$3.
KENTIA BELMOREANA, per doz.—2 1/4-inch, \$1.50; 3-inch, \$2; 3 1/4-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20; 6-inch, \$18.
KENTIA FORSTERIANA, per doz.—2 1/4-inch, \$1.50; 3-inch, \$2.00; 3 1/4-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20.
LATANIA BORBONICA, per doz.—2 1/4-in., 60c; 3, \$1; 6, \$7.20; 7, \$10.
PANDANUS VEITCHII, per doz.—5-in., \$12; 6 in., \$18; 8-in., \$42.
PANDANUS UTILIS, 4-in., \$3 per doz.
NEPHROLEPIS BOSTONIENSIS, per doz.—5-in., \$3; 6-in., \$6; 7-in., \$9; 8-in., \$12; 9-in., \$18; 10-in., \$24.
ASPARAGUS PLUMOSUS NANUS, per 100—2-in., \$4; 3-in., \$8; 4, \$12.
ASPARAGUS SPRENGERI, per 100—4-inch, \$12.
PHOENIX CANARIENSIS, 6-inch, \$6 per doz.
SEAFORTHIA ELEGANS, 5-inch, \$5 per doz.
DRAECAENA INDIVISA, 4-in., \$2; 5-in., \$3; 6, \$5; strong, \$3 per doz.
ADIANTUM, 2 in., \$1; 3-in., \$8 per 100. Small ferns for dishes, \$1 per 100; \$25 per 1000.
FERN BALLS, well furnished with leaves, \$3 to \$5 per doz.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

500,000 GIANT PANSIES

SMALL OR LARGE PLANTS.

Mixed of the following strains: Mme. Perret, International, Giant Trimardeau, Roemer's Show, Fancy, Five Spot and Ne Plus Ultra Strains, 50c per 100; \$3.00 per 1000; 3,000 for \$8.50; 5,000 for \$13.50; 10,000 for \$23.00.

50,000 DREER'S DOUBLE DAISIES, Snowball, Longfellow, Giant. Same price as Pansies.

5,000 FORGET-ME-NOT, 75c per 100; \$5.00 per 1000.

VIOLETS, Lady H. Campbell, 2-inch, strong, \$2.00 per 100.

3,000 VINCA, Variegated and Green, strong field clumps, \$4.00 per 100; \$30 per 1000.

PRIMULA OBCONICA, GRAND.. ALBA AND ROSEA, will make fine 4-inch, some in bloom, \$2 per 100; \$18 per 1000.

UMBRELLA PLANTS, 2-in., fit for 4-in., \$1.50 per 100.

CHRISTMAS PEPPERS OR CHERRY, 2 1/2-inch, fit for 4-inch, \$1.50 per 100. **CASH.**

ASPARAGUS PLUMOSUS, 3-inch, strong, \$5.00 per 100.

BYER BROS., CHAMBERSBURG, PA.

DOUBLE WHITE FUCHSIAS

Mrs. E. G. Hill, Rozains Patris, Gloire des Marches, 2 1/2-in., clean and good, \$3 per 100; \$25 per 1000. Other good sorts in variety, our selection, 2 1/2-in. in splendid shape, \$2.50 per 100.

CHINESE PRIMROSES, white and pink, (Rupp's Strain), 2 1/2-in., fine plants, \$3.00 per 100.

ASPARAGUS SPRENGERI, 2 1/2-in., \$2.50 per 100; \$20.00 per 1000.

ASPARAGUS PLUMOSUS NANUS, 2 1/2-in., extra good, \$3.00 per 100; \$25 per 1000.

LEMON. AMERICAN WONDER, (also known as Ponderosa), strong 2 1/2-inch, \$3.00 per 100; \$25.00 per 1000. 4-inch, \$10.00 per 100; \$75 per 1000.

ARAUCARIA EXCELSA, 3 tiers, clean and good, 50c each; \$5.00 per dozen.

KENTIA FORSTERIANA, 5-inch, 24 to 30 inches high, 65c each; \$7.00 per dozen.

PANDANUS UTILIS, 5-inch, very fine, \$3.50 per doz., 4-inch, \$2.00 per doz.

SCHMIDT & BOTLEY, Springfield, Ohio.

Denver.

SUPPLIES ADEQUATE FOR A VERY GOOD BUSINESS.—CHRYSANTHEMUMS FINDING WARM WELCOME.—NOTES.

With the chrysanthemum season fairly well started, the market seems well supplied, compared with the previous week. Beauties are better and more plentiful, while tea roses have come on surprisingly fast within the last few days. Liberty is coming in plentifully but is going well. Carnations are improving and some really fine stock is now seen, Gus. Benson sending in some Crane and White Cloud that are as good as those seen in mid-winter. Violets are good and the sale on them is very satisfactory.

In chrysanthemums Robinson, Glory of Pacific and Bergmann have made their appearance and seem to go well enough to predict a successful season on them. Pot plants of them are selling very well. Although this country is not well adapted for autumn foliage, now and then some pretty stock is seen and we are waiting for a job or two to work it in. B.

Minneapolis.

WEATHER CONDITIONS FAVOR INCREASED PRODUCTION.—SHORTAGE FOR A FORT-NIGHT.—VARIOUS NOTES.

The flower producing conditions of the weather now are good and we hope that stock will soon commence to improve in quantity. Last week witnessed some shortage in all classes of flowers, as did the previous week, and there was some disappointment in filling standing orders. Violets are coming in more plentifully now and realizing a good price, from \$1 to \$1.50 per hundred. Chrysanthemums are making their appearance, Nagel and Swanson having the first on display.

The Minneapolis Floral Company has on track 1,000 tons of coal, which means quite an item at present.

A. S. Rice left for Chicago last Saturday night for an indefinite stay.

The coal question is the leading subject among the florists. C. F. R.

NEW HAVEN, CONN.—The New Haven Horticultural Society held an enthusiastic meeting on October 7. A paper on raffia by J. Handyside, the exhibition of a new canna by John Doughty and a fine display of garden flowers were among the attractions.

ASPARAGUS PLUMOSUS

2 inch, fine, \$3.50 per 100.	Per 100
WITTBOLDI FERN (new), 3-inch.....	\$1.00
GREVILLEA ROBUSTA, 4-inch.....	6.00
ASPARAGUS SPRENGERI, 2-inch, heavy.....	2.50
SMILAX, 3-inch, per 1000, \$18.00.....	2.00
SWAINSONA, white and pink, 3-inch.....	5.00
UMBRELLA PLANTS, 2-inch, fine.....	2.00
CAREX JAP. VAR., 3-inch, per doz. \$1.00.....	8.00

Cash or satisfactory reference with order from unknown parties. **GEO. L. MILLER, Newark, O.**

No. 1 Smilax Special

2,000 to close out at \$10.00 per 1000 if taken at once. Need room.

GEO. A. KUHL, PEKIN, ILL.

ASPARAGUS Plumosus Nanus

Extra fine 2½-inch, better than some 3-inch, \$3.50 per 100; \$30 per 1000. Extra fine 3-inch, \$5.00 per 100. Sample of either size, 10 cents free by mail. CASH PLEASE.

H. TONG, Wholesale Grower, Ashtabula, O.
Please mention the American Florist when writing.

California Seeds '02

ASPARAGUS SPRENGERI, \$1.50 per 1000; \$6 per 5,000; \$10 per 10,000.
PANSY. Giant Flowering, Mixed, trade pkt., 10c; 1 oz, \$1; per lb., \$10.
BURBANK'S SHASTA DAISY, 100 seeds, 25c; 1000 seeds, \$2; per oz., \$18.

PLANTS. PLANTS.

ASPARAGUS SPRENGERI, from flats, \$1.00 per 100; \$7.50 per 1000; \$25.00 per 5,000.
ASPARAGUS PLUMOSUS NANUS, nice 3½-inch, \$6.00 per 100.
BURBANK'S SHASTA DAISY, the coming cut flower, nice to follow 'mums, 2-inch; \$10.00 per 100; 3½-inch, in bloom, \$15.00 per 100.

CALIFORNIA CARNATION CO., LOOMIS, CAL.

Mushroom Spawn



Frequent importations from England. Always fresh and lively.

CARNATIONS

McGowan.....	100	1000	Portia.....	100	1000
Crane.....	\$3.50	\$30.00	Scott.....	\$4.00	\$35.00
Crocker.....	5.00	40.00	Eldorado.....	4.00	35.00
Norway.....	5.00		Daybreak.....	4.00	
Joost.....	4.00		Victor.....	4.00	

J. J. STYER, Concordville, Pa.

ASPARAGUS PLUMOSUS NANUS.

Strong and Bushy, 3-in pots, per 100, \$5.
TOBACCO STEMS, Fresh and Strong
Bale of 300 pounds, \$1.50

W. C. BECKERT, Allegheny, Pa.

Roses and Carnations

3,000 strong 3-in. Brides, Meteors and Golden Gates, \$4 per 100; \$30 per 1000. 2-inch, \$2 per 100; \$20 per 1000. Fine healthy plants.
3,000 very fine Marquis and Scott, 12 to 15 in. across, field-grown, \$4.50 per 100. A great bargain at this price.
4-in. Asparagus Plumosus, \$15 per 100.
Some good 4-in. hot water pipe at \$8 per 100.

W. H. GULLETT & SONS, LINCOLN, ILL.

HERRON....

Carnation Grower,

OLEAN, N. Y.

CANNAS

Allemania, Defender, Florence Vaughan, Mlle. Berat, Mrs. Robert McKeand, Paul Marquant, \$2.00 per 100; \$15.00 per 1000. Get them now. Don't get left in the spring.

W. W. COLES, Kokomo, Ind.

Please mention the American Florist when writing.

Cannas.

FALL DELIVERY—Italia, Austria, A. Bouvier, Alsace, Burbank, \$1.50 per 100; \$12.00 per 1000. Sample bulbs sent prepaid for 25c. Write us.

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PERSICUM SPLENDENS GIGANTEUM.

Finest strain in the world, ready for immediate shipment, a splendid stock of plants, well budded, from 3-inch pots, \$6.00 per 100; \$50.00 per 1000; from 3½-inch pots, in bud and bloom, \$10.00 per 100; \$90.00 per 1000.

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ASPARAGUS SPRENGERI.

3-inch pots, nice plants, \$4.50 per hundred.

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10,000, \$1.50; 50,000, \$6.25. Manufactured by **W. J. COWEE, BERLIN, N. Y.**
Sample Free. For sale by dealers.

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Of Every Description. When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

DUNNE & CO., 64 W. 30th St., New York.
Telephone Call, 1700 Madison Square.

SPECIALTIES

ROSES, from 3-inch pots. **In Best**
CARNATIONS, for all delivery, **Varieties**
CHRYSANTHEMUMS,
SMILAX, VIOLETS.

Prices Low. Send for List. **WOOD BROTHERS, Fishkill, N. Y.**

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708 North 16th St., Philadelphia, Pa.

Field-Grown CARNATIONS

Fine, Strong, Healthy Plants.

	Per 100	Per 1000
PROSPERITY.....	\$4.00	\$35.00
GENEVIEVE LORD...	4.00	35.00
MARQUIS.....	4.00	35.00
GUARDIAN ANGEL	4.00	35.00
METEOR.....	4.00	35.00

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MURPHY'S WHITE.

A commercial white Carnation, vigorous and healthy grower, early, free and continuous bloomer; stem and calyx its strongest points; a white flower and very fragrant; an enormous producer both as a summer and winter bloomer. Price within reach of all. Will be distributed beginning January 15, 1903. Facilities for rooting 300,000 cuttings. You will want it, so place your order at once.

100, \$6.00; 1,000, \$50.00;
5,000, \$45.00 per 1000; 10,000, \$40.00 per 1000.
I am headquarters for Estelle cuttings, \$4.00 per 100; \$30.00 per 1000. Correspondence solicited.

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STA. F. CINCINNATI, O.

CARNATION PLANTS.

6,000 Scott.....	\$35	per 1000
6,000 Joost.....	40	"
4,000 Flora Hill.....	40	"
2 000 Crane.....	40	"

Extra large and fine plants.
Will exchange some for Violet plants.

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FOR SALE OR EXCHANGE.

10,000 strong healthy plants. The season has been very favorable with us and plants are large size. Will exchange for Pansies, Dbl. Daisies or Violets.

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15,000 FIELD-GROWN CARNATIONS

Extra strong A No. 1—Wm. Scott and Lizzie McGowan, \$25.00 per 1000; 250 at 1000 rates.

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FIELD GROWN Carnations

150 The Marquis, 200 Gen. Gomez, 200 Ethel Crocker, 200 Daybreak, 400 Frances Joost, 100 White Cloud, 100 Bon Ton, \$5 per 100.

FARQUHAR VIOLETS, 2½-in. pots, \$3.00 per 100.
Cash with order.

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	Per 100	Per 1000		Per 100	Per 1000
White Cloud.....	\$6.00	\$50.00	Marquis.....	\$5.00	\$40.00
Norway.....	6.00	50.00	Guardian Angel.....	5.00	45.00
			Prosperity.....	5.00	40.00

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Field-Grown Carnation Plants

4,000 Extra Fine Marquis, \$4.00 per 100.

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Field-Grown Plants.

	Per 100	Per 1000
PROSPERITY.....	\$4.00	\$35.00
MARQUIS.....	4.00	35.00
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JOOST.....	4.00	35.00

Strong, Healthy Plants.

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Miss Louise

Faber The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet to 6 inches to 4 feet. Flowers are of a beautiful pink, similar to a well colored Bridesmaid rose and average 2½ inches. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for Jan. delivery.

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Field-grown Carnation Plants. The following varieties still left, order quick if wanted:

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NORWAY, extra fine.....	\$7.00	\$60.00
GENEVIEVE LORD.....	6.00	50.00
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25 plants of 1 variety at 100 rate. 500 at 1000 rate.
H. WEBER & SONS, Oakland, Md.

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	Per 100	Per 1000
JOOST.....	\$3.00	\$25.00
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250 at 1000 rate. Cash or C. O. D.

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EXTRA FINE FIELD-GROWN

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500 Prosperity.....	\$8.00	per 100
300 Maceo.....	7.00	per 100
1000 Mrs. Joost.....	6.00	per 100
1500 Wm. Scott.....	5.00	per 100
2000 Ethel Crocker.....	5.00	per 100
1500 Cartledge.....	4.00	per 100
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The Largest and Best White.

A pure white flower averaging 3½ inches on long stiff stems. A continuous, free and early variety with a flower perfectly formed and very fragrant.

A Money Maker for You All.

Orders filled strictly in rotation, delivery commences January 1st, 1903.

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JOOST, strong, field-grown, No. 1 \$3.00; No. 2, \$2.00. HILL, No. 2 \$2.00.

VINCA VAR., strong field-grown, \$3.00 per 100. BEGONIA REN. 4-in. No. 3; 3-in. No. 2. Cash or C. O. D.

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The Leading Novelties of 1903.

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RIBBONS & NOVELTIES

Telephone No. 3872 Spring.

**TO KILL ALL
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USE
"NICOTICIDE"**

Clean and harmless
as Fumigant or Spra.,
Ask your seedsman
for it or write to

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Baskets, Puerto Rico Mats, Cycas, Waterproof
Crepe Paper, Glass, China.

LATEST NOVELTIES IN ALL FLORISTS' SUPPLIES.
FOR THE WHOLESALE TRADE ONLY.

**SOMETHING ENTIRELY NEW.
A Florists' Plate Book.**
150 Plates and nearly 300 varieties for
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You can't do business without it.
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A. HERRMANN,

- Cape Flowers, all colors,
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- and All Florists' Supplies.

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**The Florists' Hail Asso'n
Pays Losses Promptly.**

Reserve fund \$10,000. For particulars address
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Sigmund Geller
Importer and Manufacturer of
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Looking for Fall Novelties?
LOTS OF THEM ON EXHIBITION.
108 W. 28th Street, New York.

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WILL soon be ringing,
whether we get coal
or not. Buy your
stock of scarlet im-
mortelle bells now.
They are beautiful, uniform and
perfect. There's money in hand-
ling them at present prices.

We have a new line of Straw
Baskets made especially for our
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Wax Roses and other Conti-
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New Immortelles are on the
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arrive now.

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Plain, Fancy, Printed & Mounted,
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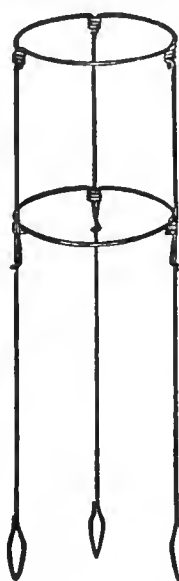
KIFT'S PATENT ADJUSTABLE VASE HOLDER
No. 1.—Brass, nickel, 4 1/2-in. long, 6 clasps to each
rod. Price complete (with green or white tum-
blers) \$2.25. Price complete (with green or white
cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod,
brass and nickle-plated, with three clasps for 5 to
6-inch pots, each \$1.75.

**KIFT'S PATENT Rubber Capped FLOWER
TUBES,** 1/2-inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.

NOTICE.

THE MODEL PLANT STAKE COMPANY,
formerly of Brooklyn, N. Y., has removed
to 208 Jersey St., Harrison, New Jersey,
and is now The Parker-Bruen Mfg. Co. U

The Model Extension Garnation Support.



Flushing, Long Island,
Dec. 11th, 1901.
MR. THERON N. PARKER,
Brooklyn, N. Y.

Dear Sir— I have used
your Wire Garnation Support
the last two years, in
all about 12,000. They fill
the bill in every particular.
Nothing could be more
satisfactory and would
give me a great deal of
pleasure if I can bespeak a
good word for you to the
trade and you are at liberty
to refer to me at any
time.

Very truly,
A. L. THORNE,
La Fayette, Ind.,
July 8th, 1902.

MR. THERON N. PARKER,
Harrison, N. J.

Dear Sir:— After using
your Model Garnation Support
in two of our houses
the past winter, we have
come to the conclusion that
it is perfectly adapted to
supporting carnations, and
shall use them on all our
plants the coming season.
We were much pleased
with the simplicity,
strength and neat appear-
ance of the support.

Yours truly
F. DORNER & SONS Co.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.

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IT COSTS 4 CENTS FOR EACH 600 FEET OF
FLOOR SPACE

DOES NOT INJURE THE MOST SENSITIVE
PLANTS— ENDORSED BY PROMINENT FLORISTS—
USED FOR FUMIGATION OR SPRAYING INDOORS OR
OUT— 200 LBS. OF TOBACCO IN ONE PINT OF NIKOTEEN
SOLD BY SEEDSMEN— CIRCULAR FREE—
SKABKURA DIP CO. CHICAGO.

Kill AND SAVE the THE Bugs!
QUICKLY DOES IT.

Invalid Appliance Co.,
MANUFACTURERS OF
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"The kind that never get apart."
If your seedsman doesn't handle them,
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journal in America for amateurs....

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Liberal terms to florists who take subscriptions.

THE GARDENING CO. Chicago, Ill., U.S.A.

Pittsburg.

STOCK INCREASES IN SUPPLY AND IMPROVES GREATLY IN QUALITY.—PARK MAN GETS PAID.—LOCAL AND TRADE NOTES.

Chrysanthemums are increasing in quantity and their sale is very steady. Roses are much improved. Beauty, Liberty, Meteor and Bridesmaid are best. Both local and shipped-in stock seems greatly improved. Carnations and lily of the valley are correspondingly fine. Violets are improving in quality and sale. Orchids are also plentiful. Frost has put an end to outdoor stock. Society papers have published a list of November debutants and this, coupled with the weddings scheduled, looks as though November will be a continuous rush.

Judge J. D. Shafer has rendered a decision in favor of Elmer E. Siebert, superintendent of Highland Park. Mr. Siebert was appointed to this position several months ago but for reason of his lack of previous experience in this line, the city comptroller refused to sign his warrant for wages.

Robert Gonderman, foreman of the houses at Pennsylvania Reform School, has finished his new palm house which is 40x50.

Fred. Barki's early chrysanthemums are cut out. They happened to be the first on this market.

Phil. Langhans, of the Pittsburg Cut Flower Company, is confined to his home by illness.

John Bader has finished his new houses, five in number. E. L. M.

CHATHAM, N. J.—Samuel Lum is shaking hands with himself over the fact that he has coal enough to last all winter.

BAY CITY, MICH.—Boelinger Brothers have just built a new stack and set another new boiler. Their place is in fine shape.

CUT FLOWER BOXES

WATERPROOF. Corner Lock Style.
The best, strongest and neatest folding cut flower box ever made. Cheap, durable, handy. To try them once is to use them always.

DON'T USE OLD STORE BOXES.
If you have any doubt, send for samples, which speak for themselves.

Size No. 1.	3x4½x16.	\$1.75 per 100;	\$15.00 per 1000
" No. 2.	3x6x18.	2.00 "	18.00 "
" No. 3.	4x8x18.	2.40 "	22.00 "
" No. 4.	3x6x20.	2.75 "	25.00 "
" No. 5.	4x8x22.	3.00 "	28.00 "
" No. 6.	4x8x28.	3.75 "	35.00 "

THE LIVINGSTON SEED CO.
Box 103, COLUMBUS, O.

NOTICE.

Mr. H. Schwartz, Florist, Galveston, Tex., writes:

"I have used Bollene; it killed all insects in my hothouse and garden. I found it the safest and best remedy for scale insects, cut worms, lice, spiders, caterpillars, ants, grasshoppers, etc., and can highly recommend it. It does not injure the flowers or plants."

Bollene is a concentrated insecticide. One quart will make 50 quarts of spraying solution.

PRICE: Per quart, \$1.00; per gallon, \$2.25; in 5 gallon lots or over, \$2.00 per gallon.

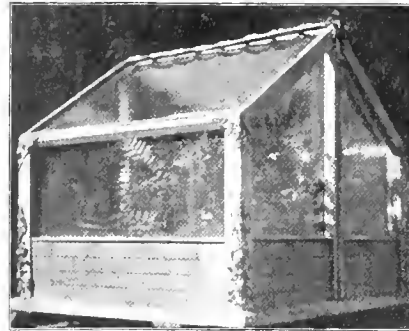
THE BOLLENE MFG. CO., Galveston, Texas.

WE NOW OFFER

"Chemicals"

for making **LIQUID COMPOST.**
Dry powders all soluble in water. Composts cost less than ¼¢ per gal. Correspondence invited.
EASTERN CHEMICAL COMPANY,
620 Atlantic Ave., Boston.

Miniature Baby Greenhouse



FOR GROWING SMALL PLANTS.

TWO SIZES. No. 1. 11¼x12½ and 11 inches high.

No. 2. 15¼x16½ and 15¼ inches high. Are folded up in compact package of about one cubic foot; weight about 18 pounds.

SMALL OR NO. 1 SIZE.	LARGE OR NO. 2 SIZE.
1 house.....\$ 4.50	1 house.....\$ 6.50
2 houses..... 8.50	2 houses..... 12.50
4 houses..... 16.50	4 houses..... 24.00
6 houses..... 24.00	6 houses..... 34.50

SIEBRECHT & SON, NEW ROCHELLE, N. Y.



MODEL EXTENSION CARNATION SUPPORT

Made with two or three circles. Endorsed by all the Leading Carnation growers as the best support on the market.

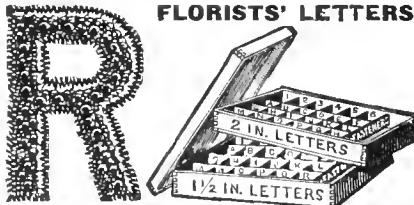
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Prompt Shipment Guaranteed.

IGOE BROS.
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BROOKLYN, N. Y.

Boston Florist Letter Co.

MANUFACTURERS OF **FLORISTS' LETTERS.**



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2-inch size, per 100, \$2.00.
Script Letters \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hawley St., BOSTON, MASS.

BEST AND CHEAPEST
ALL-ROUND INSECTICIDE on the Market.

ROSE LEAF
EXTRACT OF TOBACCO
INSECTICIDE

For Sale by Seedsmen, For Free Pamphlet Write to The Kentucky Tobacco Product Co., Louisville, Ky.

HOT BED SASH,

NOW READY.

Delivered price anywhere on lots of one dozen or more. Guaranteed in every way.

THREE SIZES.

3 ft. x 6 ft.....3 rows 10-in. glass
3 ft. 3-in. x 6 ft.....4 rows 8-in. glass
4 ft. x 6 ft.....5 rows 8-in. glass

Clear Cypress 1½-inch thick, without paint or glass.

RED CEDAR POSTS.

All Heart Cypress Lumber for Greenhouses.

Write for circulars, plans and estimates.....

LOCKLAND LUMBER CO.
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Materials of all kinds for Greenhouse Construction

ALSO HOT BED SASH, VENTILATING APPARATUS Hinges for Vent. Sash, Etc.

We send sketches, estimates and catalogue free.

Our Material and Workmanship are unexcelled.

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Importers and Manufacturers of

FLORISTS' SUPPLIES.

Galax Leaves and all Decorative Greens.

American Florists
Ads

Always do business, Week days and every day Sundays and holidays, All over the country, At home and abroad.

Standard Flower Pots

The WHILLDIN POTTERY COMPANY,
 PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
 Travelling Representative, U. CUTLER RYERSON, 108 Third Ave., Newark, N. J.



STANDARD FLOWER POT!

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in., in crate,	\$4.88	120 7-in., in crate,	\$4.20
1500 2 1/4 "	5.25	60 8 "	3.60
1500 2 1/2 "	6.00	48 9-in., in crate,	\$3.60
1000 3 "	5.00	48 10 "	4.80
800 3 1/4 "	5.80	24 11 "	3.60
500 4 "	4.50	24 12 "	4.80
320 5 "	4.51	12 14 "	4.80
144 6 "	3.16	6 16 "	4.50

Send pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address
HILFINGER BROS. POTTERY, Fort Edward N. Y.
 Or August KOLKER & Sons, New York Agents,
 31 Barclay Street, New York City.

KELLER BROS.

213-15-17-19-21-23 Pearl St.,
 NORRISTOWN, PA.
 Manufacturers of Standard Flower Pots, red in color, equal to the best on the market; are 16 miles from Philadelphia, best of railroad connections. We give special attention to mail orders and make special sizes to order in quantities. A postal will bring prices and discounts.

WRITE
A. F. KOHR, 1521-23 N. LEAVITT ST.,
CHICAGO, ILL.,
 FOR PRICES OF

Standard Pots
 which for strength and porosity combined
 are the best on the market.

RED POT

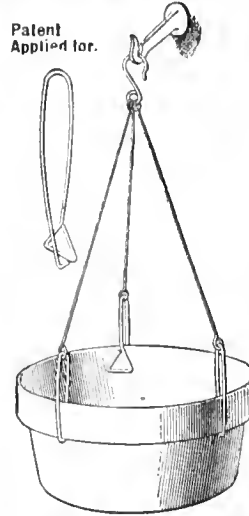
SAMPLE POT AND PRICE LIST
 ON APPLICATION.
C. C. POLLWORTH CO., MILWAUKEE, WIS.

Standard Flower... POT

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....
W. H. ERNEST,
 28th and M Streets, WASHINGTON, D. C.

FOR SOMETHING NEW AND NICE
"Cluster of Roses Stationery"
 for Florists, is the latest. Both plain and in colors. Samples free by
DAN'L B. LONG, Publisher, BUFFALO, N. Y.

Kramer's Pot Hangers



The neatest, simplest, most convenient and only practical device for converting ordinary flower pots into hanging baskets. They fit all standard made pots from 2 to 10 inches in diameter. The illustration shows how they are attached. Just the thing for hanging up ferns, begonias, etc. You can make room and money by their use. Try them.

Price with wire chain as shown in cut, \$1.00 per dozen by express. Sample doz. by mail, \$1.25.

I. N. KRAMER & SON,
 CEDAR RAPIDS, IOWA.



GEO. KELLER & SON,
 MANUFACTURERS OF
FLOWER POT.
 Before buying write for prices.
 361-363 Herndon Street,
 near Wrightwood Ave.,
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THOSE RED POT

"STANDARDS"
 FULL SIZE AND WIDE BOTTOMS.
 BULB PANS AND AZALEA POT.
DETROIT FLOWER POT M'FY,
HARRY BALSLEY, DETROIT, MICH.,
 Rep. 490 Howard St.

FLOWER POT ALL KINDS. STANDARD POT A SPECIALTY

List and SAMPLES FREE.
SWANN'S POTTERY M'G CO.,
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Bargains FOR Florists.

We are headquarters for a general assortment of the necessary material and supplies that you are looking for. If you are about to improve or construct, consult us.

In connection with the dismantling of the Pan-American Exposition, we have for sale:

- 20,000,000 FEET of fine seasoned lumber, practically new, consisting of all sizes of joists, timbers, dressed and matched boards and flooring; also sash and doors.
- 50,000 FEET of roofing glass.

PIPE.

We are headquarters for pipe. We offer you:

- 100,000 FEET of 2 to 4-inch wrought iron, lap welded casing. We can furnish this material in three ways: Either with sleeve or jacket couplings, screwed ends and threaded couplings or with expanded cast iron flanges with bolts and nuts.
- 1,000,000 FEET of standard black wrought iron pipe, size 3/8 to 12-inch. It is second-hand but has new threads and couplings and is in first-class condition.
- 1,000 TONS of galvanized wire 9, 10, 11, 12, 13, 14 and 15 gauge.
- 50,000 FEET of 2, 3 and 4-inch cast-iron soil pipe and fittings.
- 100,000 FEET of garden hose, 3/4 and 1-in.
- 75,000 FEET of cotton rubber-lined fire-hose, (rubber-lined in and outside), ranging in sizes 1 to 2 1/2-inch.

- VALVES and fittings of every kind.
- BOX COILS for heating purposes.
- RADIATORS, new and second-hand.

We also offer the following bargains in

Heating Boilers

- 50 CAST-IRON sectional heaters, capacity from 450 to 5,000 feet.
- 1 NO. 2 Standard Kroeschell hot water heating boiler.
- FOUR 36x10 Horizontal Tubular.
- FOUR 36x12 Horizontal Tubular.
- FIVE 42x10 Horizontal Tubular.
- FIVE 42x12 Horizontal Tubular.
- SIX 48x14 Horizontal Tubular.
- TWO 54x16 Horizontal Tubular.
- FOUR 60x16 Horizontal Tubular complete with all fittings.

PUMPS of all Descriptions.

A carload of shovels and spades that we are selling at \$5.00 per dozen.
 We carry a complete stock of hardware and farm implements, besides plumbing material of every kind.

Write for Catalogue No. 47.
Chicago House Wrecking Co.,
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Baltimore.

GOOD STOCK GROWN IN PRIVATE PLACES.—
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At Patterson Park they have grown over 3,000 pompon chrysanthemums and 2,000 others, all of which have already been planted into the flower beds for an outdoor fall display in the city squares.

The Gardeners' Club of Baltimore will hold its chrysanthemum show the second week in November, at Schman's Hall, the same as last year. We are preparing to make this year's show a record breaker.

The supply of all kinds of stock is plentiful excepting roses, which are very scarce. Trade has been rather dull, owing to the fact that we have as yet had no frost.

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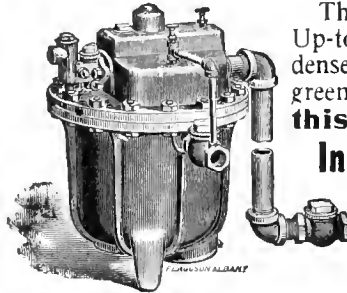
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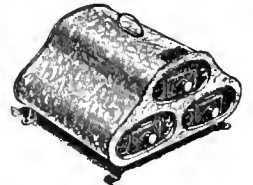
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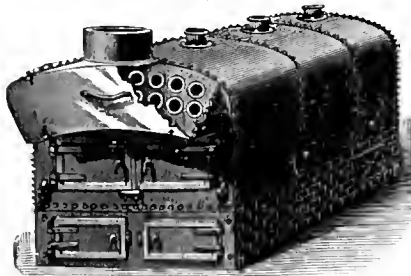
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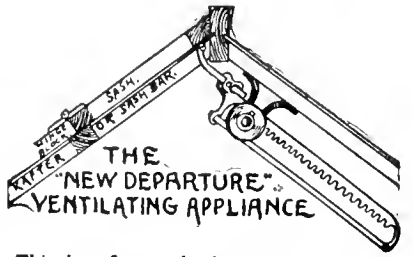
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Vol. XIX.

CHICAGO AND NEW YORK, OCTOBER 25, 1902.

No. 751.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual convention at Chicago, Ill., November
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secretary.

AMERICAN ROSE SOCIETY.

Annual meeting at call of executive committee,
LEONARD BARDON, 136 Liberty St., New York,
secretary.

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Notes on Fall Potting.

The question when to pot, and when not to pot is one that requires the exercise of some judgment, for not only the season but also the conditions under which the grower is working must be taken into consideration, and it therefore appears that the successful grower of decorative plants must use some discretion in the matter.

Under ordinarily favorable conditions, such as exist in a modern establishment where properly built houses and well equipped heating arrangements are found, it is naturally much easier to conduct cultural operations to advantage, and the grower who is thus provided for finds much less trouble in growing good stock than the one who has to combat the inconveniences of poorly built greenhouses and insufficient heating apparatus.

Speaking in a general way, we find but little advantage in shifting on the majority of the ordinary palms and decorative plants between December 1 and March 1, and for that matter the greater part of the latter month, being frequently dark and stormy, is not likely to encourage the growth of foliage plants.

Among the commoner species of palms the two that probably gain the least by late potting are *Latania Borbonica* and *Cocos Weddelliana*, both of which are very slow in rooting during the winter months, and with these it is preferable not to repot after October, unless it may be some plants that are very much root-bound. It is understood that one may force either of these palms into growth to some degree by giving extra heat and plenty of moisture but the results are not likely to be nearly so satisfactory as though the plants have been treated more rationally, for though some gain may be made in size the quality is lacking, to say nothing of the greater risk of having the plants spoiled by insects.

Livistona rotundifolia is also somewhat impatient of having its roots disturbed during the winter season, but when grown in a night temperature of 68° to 70°, as is most congenial for this species, and at the same time given plenty of moisture, this palm will continue to grow to some extent during the early winter at least.

The fishtail palm, *Caryota urens*, is another that makes but little root growth during the winter, and when repotted too late in the season will sometimes lose some of its roots and consequently gets into bad condition, such trouble being much more likely to appear

if the plants are kept a little too wet and cold. In a night temperature of 65° there is seldom any trouble in growing this caryota, and under such circumstances it may be repotted safely during October. To those who have not tried this plan before it is suggested that made-up plants of the caryota are much more effective in decorative work than are the single specimens, the latter often becoming too tall and sparse in the foliage to be very ornamental.

Tall young plants of *Ptychosperma Alexandra* may also be grouped together to advantage, three plants in a pot, and so arranged that they will grow symmetrically, form a useful specimen in a 6-inch or 8-inch pot, and is also one that may be profitably sold for a less price than a kentia or an areca of the same size. The *ptychosperma* is a very free rooting and rapid growing palm, and consequently needs plenty of water and a rich soil, and during the time of greatest progress, the summer, will be benefited by some manure water once a week.

Areca lutescens grows with moderate freedom during the early part of the winter in a greenhouse kept at 65° to 68° and may be safely repotted somewhat later than some of the preceding under such conditions, but in case one has not full control of the temperature owing to defective heating apparatus it is safer not to disturb the plants in the fall.

Most of the phoenixes may be safely wintered in a lower temperature than that noted above and will retain their vigor and keep cleaner in the cool house, but they will not make much growth under such conditions, and therefore spring potting will be found much more advantageous for them, and avoids that over-potted appearance that is often in evidence with young phoenix.

The kentias, both *Forsteriana* and *Belmoreana*, are much more satisfactory as winter growing palms than either of those that have been already noted, and the repotting of these most useful species may thus be continued later in the season with good results. There is no special advantage in giving these kentias a very high temperature, a moist atmosphere and a night temperature of 60° to 62° producing a sturdier growth and better shaped plants than can be had by exposing them to more heat, and it is also much easier to keep down the insects in the cool house, for excessive heat gives great encouragement to red spider and thrips.

The advantages of firm potting for palms have often been noted in previous

writings, but as this is one of the essentials to complete success a few hints as to this simple operation may be again tolerated. When repotting young stock of this character in the spring or early summer it is the usual method to give a shift of two sizes, that is, for example, from a 4-inch to a 6-inch pot, or from a 6-inch to an 8-inch pot, provided the plants are well established and in good condition for a shift, and our custom is to select such stock for repotting as is in a fit condition for this liberal shift, and to leave the smaller plants of the batch for a later lot.

But in the fall it is sometimes better to content oneself with giving a smaller shift rather than to overdo the matter. As much of the old ball of earth is removed as may be done without injury to the roots, the old drainage material is removed from the bottom, and the plant placed in the new pot, the bottom of which has already been prepared with new drainage and sufficient earth well rammed down. This part of the potting operation is really one of the most important, for unless the bottom layer of earth is made firm before the plant is placed upon it, the rooting medium will always be loose and the plant will not start away so well. Then fill in the soil gradually around the plant, and ram the whole firmly.

This firm potting is very necessary in the case of plants that are to be taken out for decorating, else the plants will very soon become loose in their pots, a condition that is not only injurious to their roots by permitting too much air to get down to them and to dry out the growing tips, but also prevents the water from permeating the ball of earth evenly and in consequence the plant soon suffers. Immediately after repotting the plants should be given a thorough watering in order to thoroughly moisten the new pot as well as the ball of the plant.

When making up the compound plants that are so much used in our large cities at the present time, we sometimes wash out the roots with a strong stream of

during the winter as they may do in the spring or early summer.

As the season goes on and more fire heat is needed, some of these newly potted plants will utilize quite a lot of water and one needs to be careful in this detail, for there are undoubtedly many more palms that are ruined by lack of water than by overwatering.

W. H. TAPLIN.

CHRYSANTHEMUMS.

FROM A COMMERCIAL STANDPOINT.

Commercially the chrysanthemum seems to have lost something of its old-time popularity. But asked the special question as to why the flower is suffering in the wholesale markets, it is hard to say why it should not have been received as well as usual this year.

I do not know where the chrysanthemum originated, but I have heard that in the early times in Japan it was considered simply as a flowering weed. Well, to say the least, I believe it is still a rank weed, and from a strictly commercial standpoint ought to be treated as such. In the first place, in its season it practically puts all other flowers out of the market, not because it is superior to them but because it is so cheap and the buyer gets a great big bunch for little money. In the second place, with people who want flowers in the house all the time, after one buys a bunch of chrysanthemums he doesn't have to buy any more flowers for at least ten days. Once I went to a party where I heard they were going to have great decorations. I went to see how they did it. It was almost all chrysanthemums. When the evening was nearly over the caterer came up to me and said: "Pieser, we are going to have another big affair here next Sunday; kindly tell me the best way to keep these chrysanthemums and all I will have to do is to buy a little smilax and things to piece out with and I can charge just as much for the decoration." My answer was: "Put the confounded things

from the chrysanthemum cropis "velvet." This is not so, for it makes every other flower get cheap at the same time, and possibly where they make a few dollars on the chrysanthemums, they lose it on their other stock.

Allowing that a grower has the space, with no other use for it but to plant chrysanthemums, even in such a case judgment could be shown. It is a certain fact that when the poor man can buy anything, the rich man don't want it at any price. It is also a fact that chrysanthemums do not sell until within a day or so of the chrysanthemum show and from then on. So, as I say above, a great deal of judgment could be used. Cut out the early kinds altogether. If we must have them, limit it to a white, say Kalb as an early kind, so the retailer can have something that he can use in place of lilies or other white flowers, which are generally scarce about the time this one variety comes in.

If I had my way, strictly from a commercial standpoint, I would limit the chrysanthemums to not more than six to eight varieties, grow these as fine as one could grow them and never try to put one on the market until chrysanthemum show week, except as above stated, Kalb or early Ivory. It is a mistake to have so many varieties. I believe that if this subject was taken up by the S. A. F. some good would come of it. If it could be done, which of course it couldn't, I should like to see a committee appointed to select the best commercial varieties, surely not over a dozen kinds. I am certain that the growers would make more money if they discarded all the rest and the people would be better satisfied, for the people who buy flowers would buy what they wanted, no matter if the price was higher.

Another and most important trouble is that the growers, needing the space, often cut the chrysanthemums before they are ready, when they are neither good nor bad, and ship them to market to help make the entire day's receipts still cheaper. But that is a fault of the general flower producer. E. E. FISHER.

Anemone Japonica.

An indispensable subject for the home garden is *Anemone Japonica*. Planted in masses, what can be better at this season? Several varieties exist with three or four whorls of petals in each flower and in color from white to clear pink. *Anemone Japonica* var. *alba*, *Queen Charlotte* and *Whirlwind* are good ones. Strong clumps planted in the fall or spring become established at once in any good garden soil. A protection, not applied too early, of decayed leaves or long manure will insure them safety through the winter.

FRANCIS CANNING.

Economy in Fuel.

Dr. Fischer, the well known German chemist, has recently been making a series of tests to show that in the ordinary domestic stoves in use not more than twenty per cent of fuel consumed is really utilized for warming the rooms, whereas, with stoves burning gas eighty per cent and more of the possible effect is obtained. In a certain sugar manufactory at Elsdorf, it is stated, no steam engines have been used for several years. Gas is made at a cost of about 20 cents per thousand feet, and is used for lighting and driving gas engines. At the great Schultz Iron Works, at Essen, water gas



ANEMONE JAPONICA IN PENNSYLVANIA.

water, this method being much less likely to injure the roots than by attempting to shake the soil out, and permitting the placing of several plants in a pot that otherwise would not accommodate them, but I do not advise the washing out of the roots late in the season, as it may result in a check to the plants from which they do not so readily recover

in water in the cellar and you can't spoil them if you try."

Now, with all this, I do believe the grower could be made to look at this flower in the same way, for many reasons. A great many growers simply plant chrysanthemums in a house or houses that they intend for bulbous stock, and they figure that all they get

is made at a cost of 8 to 16 cents a thousand feet, and serves both for fire and lighting. For the latter purpose a ring is fixed over the burners, having rods of pencils of magnesia attached, these being made glowing hot by the non-luminous gas flame and emitting an excellent light. The abandonment of burning coal direct for heating will do away with all the disadvantages of smoke.—*American Stove and Hardware Monthly.*

Another New Canna.

The accompanying illustration shows a bed of cannas which Henry Morris planted on the lawn of former United States Senator Francis Hiscock, at Syracuse, N. Y. The variety is one raised by Mr. Morris which he has named Lord Charles William Beresford, from the English admiral who is now visiting this country. It is a sport from Robusta but of more erect habit and more pointed leaves. The bed on Senator Hiscock's lawn has attracted much attention. The foliage is bronze, or rather a wine color.

Philadelphia Wholesale Flower Market.

The first regular stockholders' meeting of the new market since a charter was granted was held in the Library Room, Horticultural Hall, Broad street above Spruce, Thursday evening, October 16, when about 480 shares of stock were represented and voted, out of 660 shares subscribed for. Edwin Lonsdale was chairman and David Rust secretary.

The board of directors, elected for the purpose of organization, reported that a state charter had been granted by Governor Stone, a room in which to conduct a market had been leased, a manager had been elected, that by-laws had been formulated, which were on hand for the stockholders to act upon, to ratify or amend. Amendments were proposed, but were afterwards withdrawn after explanations had been made, and the by-laws were eventually adopted as a whole without a dissenting vote.

The election of a board of nine directors, three for three years, three for two years and three for one year, was declared to be in order, and Robert Craig and George Anderson were appointed tellers and duly affirmed according to law. The result of the election was as follows: For three years, Joseph Heacock, William K. Harris and H. C. Geiger; for two years, David Bearn, Edwin Lonsdale and H. G. Tull; for one year, William P. Craig, John Welsh Young and R. G. Palmer. The terms for each director, as now elected to serve, were determined by lot at the first meeting of the regularly organized board, which met the following day in the Potts building, 1224 Cherry street, where the new wholesale flower market will be opened for business Saturday, November 1, 1902.

The officers as elected under the charter of the State of Pennsylvania at the meeting of the board of directors are as follows: President, Joseph Heacock; vice-president, William K. Harris; treasurer, R. G. Palmer; secretary, Edwin Lonsdale.

Manager Charles E. Meehan, who is hustling around in search of ice boxes and carpenters to build stalls, confidently expects to have everything in readiness for the eventful morning of Saturday, November 1, when a new era in the sale of cut flowers and plants for the Quaker City will be inaugurated.

At the stockholders' meeting it was also decided to authorize the board of



NEW CANNA LORD CHARLES WILLIAM BERESFORD.

directors to hold a reception in the market hall on Thursday evening, October 30. The invitations will go to growers, buyers and sellers of plants and of cut flowers at wholesale and growers and dealers in trees, shrubs, seeds, bulbs and dealers in florists' supplies. Committees were appointed by President Heacock as follows: On invitations, George C. Watson, John Welsh Young and Edwin Lonsdale; on decorations, H. C. Geiger, H. H. Battles and Julius Wolff, Jr.; on entertainment, William P. Craig, Charles E. Meehan and William K. Harris; on collation and refreshments, Past Master John Westcott, assisted by R. G. Palmer and Herbert G. Tull. It is expected that the choice of stalls will be sold to the highest bidder the same evening. The decorations are in capable hands, and the entertainment committee promises something unique. As to the refreshments, the veteran, Commodore Westcott, and his associates will take care of that end of the enterprise and an enjoyable and profitable evening is confidently expected.

The title agreed upon expresses as nearly as can be what the new step is to accomplish. It would, however, have been better in the opinion of the undersigned had it read "The Wholesale Flower Market of Philadelphia," in accordance with the name and title of a prosperous trade organization of the Quaker City, namely, the Florists' Club of Philadelphia, which has been in existence for the past seventeen years.

EDWIN LONSDALE.

Hints and Happenings.

I would like to point out to growers who are about to pot up their azaleas for Christmas and Easter forcing that they will do well if they put the majority of their plants in the special azalea pot or deep pan brought into prominent use a few years ago. There are many great advantages attached to these pots. The plants when in them look better and larger and it costs less to trim them, besides that they are more acceptable to the public. They can be used so for table decoration and in many other forms where it is impossible or undesirable to

use deep pots. Growers can make up combinations now that will sell well later on. We mean to put several plants into one pan, arranging them to form more compact and rounded shapes. Care should be taken to select harmonizing colors. Small azaleas can be used up in this manner, but it might be well to remember that consequent prices prevent the desired appreciativeness in many sections. Apropos of this question of small pots, it is well to remember that it applies to all plants intended for commercial uses. Esthetic taste and a comprehension of the necessities is no longer confined behind the counters of the florists' store, but extends to the potting bench. In fact, it is up to the grower to produce beauty requiring little or no adornment.

It may be a matter of interest to record that on last Monday there were no less than 20,000 fine cattleyas displayed in New York city windows. This represented more than the entire yearly cut twenty years ago. It is beyond understanding where all the flowers go to that are daily shipped into this city. To merely say that it is the greatest flower-buying, flower-loving city in the world is only to record cold facts.

J. I. DONLAN.

A Georgia Establishment.

The Fruitland Nurseries of the P. J. Berkmans Company, Augusta, Ga., is one of the famous horticultural establishments of the south; indeed it enjoys an international reputation, considerable stock having been shipped into South Africa and to other far distant points. They have a large range of greenhouses but grow no cut flowers. Not long since there was illustrated in this journal the original plant of the Climbing Clothilde Souper rose, then in bloom on their grounds. Although the firm handles large quantities of decorative plants and also of fruit and other trees, it is for its hedge plants that it has the most renown. Magnolia avenue, on the nursery, is shown in illustrations on the following pages. Another shows the building

occupied as offices and still another the block of *Biota aurea nana*, a specialty into which it can be seen they have gone heavily. The nursery is a short distance outside of Augusta and the surroundings are typically southern.

The venerable P. J. Berkmans, who may be seen standing on the side porch in the office building picture, has been president of the Georgia State Horticultural Society since its organization, more than a quarter century ago. Robert C. Berkmans, who was seated on the railing on the front porch when the picture was taken, served last year as president of the American Association of Nurserymen, and L. A. Berkmans is secretary of the Georgia State Horticultural Society.

New York.

VITALITY TAKEN OUT OF THE WHOLESALE SITUATION.—CHRYSANTHEMUMS INFLICT INJURY ON ALL OTHER LINES.—VALUES RECEDE IN THE FACE OF STEADILY INCREASING RECEIPTS.—SNYDER FORCING BULBS BY THE HALF MILLION.—LILIES FROM COLD STORAGE BULBS.—LARGE SIZES ONLY RECOMMENDED.—A VARIETY OF LOCAL DOINGS.

Most of the life seems to have deserted the business this week. Trade on Monday opened fairly good, mainly on account of the stores stocking up with fresh material, but the demand stopped there and now stock of all kinds is plentiful and the few days' inactivity has had a disastrous effect on prices all along the line. Chrysanthemums are coming in rapidly now and the finer qualities and varieties are showing up abundantly. Simpson, Robinson, Bonaffon, Owego, Harry Parr, Ivory, Pink Ivory and so forth are following close on the heels of the earlier sorts and the wholesale establishments are all well stocked with them. The increase in chrysanthemums has

decidedly in the dumps at present and the percentage sold at good figures is small and limited to the really fancy varieties and grades. All the stores seem to be over-supplied with them. Orchids of all kinds are also abundant, even the white sorts, such as *Dendrobium formosum giganteum*, which of late were in excessive demand, being now too plentiful. There are cattleyas, oncidiums, *Vanda cœrulea*, *Dendrobium Phalenopsis* and so forth in quantity, but for the present they must suffer the usual effect of the chrysanthemum invasion. Violets of the better quality have stiffened up in price, but the lower grades show no signs of improvement. Of course the prevalence of the above-described conditions has excited the Greeks to renewed activity and they swarm and jostle in and about the wholesale marts in large numbers. Johnnie Weir, too, has resumed his normal smile and, his mind being at rest as to the problem of cheap flowers, he is now ready to meet and beat anyone valorous enough to meet him at a checkergame any morning at Twenty-eighth street.

A. V. D. Snyder, of Ridgewood, who is one of the largest bulb foreers for the New York market, has evidently been hustling this season, for his place is in fine shape. Five hundred thousand bulbs will be grown this year and the first to bloom will be the Paper White narcissi, which are even now in bud. A large number of Bermuda Harrisii lilies in all stages of growth are to be seen here and they appear to be generally free from disease. Mr. Snyder grows a good many of the cold-storage stock, and very successfully in the large sizes, but recommends that nothing smaller than the "9 to 11" size should be attempted if full satisfaction is looked for, as the smaller grades lose their vitality in storage and make but a very spindling growth. Carnations are a large crop here. Without exception

increases and it is now the most fruitful theme wherever New York florists congregate. All doubt as to its magnitude and its success in every feature has gone and the outlook is very bright.

Pot plants of chrysanthemums are not selling as well as in former seasons. There is an abundance of them in white, yellow and pink, but the price hangs at from \$5 to \$8 a dozen, which is not very profitable to the growers.

Prof. A. W. Evans, of Yale University, and Percy Wilson, of the New York Botanical Garden, have gone to Porto Rico to enlarge the garden's collection of Porto Rican flora.

E. C. Horan is now located in his new establishment at 55 West Twenty-eighth street.

W. C. Mansfield left on Tuesday for a short business trip to Old Point Comfort.

Thos. W. Weathered arrived from England last Saturday on the Lucania.

In town: Gustav X. Amryhn, superintendent of parks, New Haven, Conn.; Mrs. C. Schoenhut, Buffalo, N. Y.

Boston.

USUAL AUTUMN OVER-SUPPLY.—LARGE SHIPPING DEMAND.—CONDITIONS TRACED TO SHORTAGE OF COAL.—VISITORS AND THEIR SEVERAL DOINGS.—TUOHY GETS A CLOCK.—AUCTION SALES SLOW.—VARIOUS NOTES.

The fuel scare, resulting from the coal strike, now of unsavory memory, is probably responsible in a considerable degree for the comparative scarcity of some kinds of flowers usually abundant at this season and for the very active shipping demand from outlying districts. Growers have been exercising enforced economy with their coal burning and hence, instead of overloaded ice chests, as in previous years, the wholesalers have little to show in the way of a surplus. There are some very presentable Bride and Bridesmaid roses in sight which seem to show by their sturdiness that the economy in heating houses has not been without some good results. American Beauty is not averaging as good as of late, there being an unusual proportion of third and fourth grade blooms in evidence, and buyers are expressing dissatisfaction thereat. Violets are somewhat overstocked, with little demand, but this is the normal condition at this date. Chrysanthemums sell fairly well and, although none command fancy prices as yet, there are some blooms now being received of very fine grade. Carnations get more plentiful as the season advances but, with a few exceptions, they are deficient in stem and not up to standard generally. No doubt there will be a marked improvement before many days.

Callers have not been many of late. E. Jacobsen, of Montpelier, came in with a beatific smile on his face, which was understood when he explained that he had just returned from California, whither he had gone to get a wife. The happy young lady who is now Mrs. Jacobsen was Miss Emma Kaufmann. Dan Macrorie, of South Orange, who was here last week, was compelled to go home on Saturday suffering from a very severe attack of rheumatism. Other visitors were H. B. McCullough, of Cincinnati, who is no stranger to Boston's highways and byways, having formerly attended the Institute of Technology here; G. H. Hill, of Haverhill, who shows the effects of a whole summer's illness, and C. F. Gibbs, of St. Johnsbury, Vt., who is as active as ever.



A BLOCK OF BIOTA AUREA NANA AT THE FRUITLAND NURSERIES, AUGUSTA, GA.

affected adversely the American Beauty and this specialty moves much more slowly than it did one week ago. There is some improvement in teas as to quality and more clean stock is in evidence, but prices are declining from day to day and very much of the ordinary stock received by the wholesalers changes hands at the rate of \$10 a thousand. Carnations are

they are grown inside all summer and consequently Lawson and Prosperity are being picked now of exceptional quality. Lorna, although long-stemmed, seems rather weak. Floriana, on the other hand, is superb in every particular.

As the date for the opening of the big exhibition at Madison Square Garden approaches, the interest in that event



A BIRD'S-EYE VIEW SHOWING THE FAMOUS "MAGNOLIA AVENUE" AT THE FRUITLAND NURSERIES, AUGUSTA, GA.

On the night of Tuesday, October 20, came the first frost in this locality. It was a severe one and put a finish to all garden bloom. The season has been an unusually long and uniformly favorable one for the garden. On March 6 snowdrops were blooming, one week later the crocuses followed, and early in April there was already quite a variety of outdoor flowers, since which time there has occurred no serious interruption of excessive heat, cold, wetness or drought. The season has been most favorable for the dahlia and it is many years since such a superb display of this popular flower has been seen in our gardens.

The first prize, \$50, for floral display at railroad stations on the line of the Boston & Maine has been awarded to Waltham. There were \$2,350 paid out in cash prizes, divided among 263 stations. In addition each agent was allowed \$10 for the purchase of bulbs and plants.

Auction sales of ferns, rubbers, and so forth, at McCarthy's have been exceedingly slow this season. Next Tuesday, however, a splendid lot of ornamental shrubs, shade trees, conifers and fancy evergreens will be offered and lively times are expected.

Martin Tuohy's new store at Charlestown was invaded on the evening of October 17 by a crowd of friends from South Boston, who presented Mr. Tuohy with a handsome Howard clock, so that he might always be on time with his orders.

J. T. Butterfield has just returned from the happy hunting grounds of Aroostook county, Me., but minus the moose he went to get.

Thursday night, October 22, was the date of the first session of the Horticultural Club for the season. Fred. S. Davis occupied the chair.

George A. Sutherland reports a phenomenal demand for the Koral letters ever since September 1.

Anderson & Williams are unpacking a big shipment of Crimson Ramblers for Easter forcing.

Wm. Sim is in with a large cut of elegant chrysanthemums.

JOLLET, ILL.—J. R. Hobbs is home again from New Mexico, after a two weeks' stay.

Philadelphia.

STOCK IN MORE ABUNDANT SUPPLY.—PRICES NOT SO STIFF.—DETAILS OF THE VALUES.—CHRYSANTHEMUMS COMING IN HEAVILY.—FLOWER MARKET TO BE OPENED WITH A SOCIAL.—EXHIBITS AT HORTICULTURAL MEETING.—VARIOUS LOCAL NOTES.

The stringency has eased up a little and it is not nearly so difficult to get flowers as two weeks ago. Each week shows an improvement in the stock, nearly everything being a grade better. Beauties, particularly, are fine and in good demand. Prices range from \$1 to \$3.50 per dozen, the latter price being for three-foot stems. Bridesmaids and Brides sell for from \$4 to \$6 and, a few, it is rumored, a trifle more per hundred. Bridesmaids are not yet satisfactory, as they are soft and seem to lose their color over night. Liberty and Kaiserin bring about the same as the others. Chrysanthemums are surely here and already some varieties are hard to move. Polly Rose is a pretty good early white but it

seems soft, as do many of the other sorts now coming in. This, I believe, is mainly the fault of the growers, many of whom do not soak their stock over night but wait until the morning to cut it and then send it in immediately. Such stock is bound to get soft and is sure to give trouble to all who handle it. Prices move between \$1 and \$2.50 per dozen. Wm. Moore offered the first Ivory on October 21. They were nice flowers and sold at \$1.50 per dozen. Carnations are moving fairly well at from \$1 to \$2 per hundred. Crocker, Joost and Hill are the best sellers. Violets are in good supply and the doubles sell at from 50 cents to \$1 per hundred. Singles are getting larger and from 30 cents to 50 cents is the price. Valley seems plentiful in all grades, the best being very fine and as compared with the common run well worth the \$5 that is asked for it. Green goods are in good demand. Asparagus sells for \$1 to \$2 per hundred sprays. Adiantum seems scarce while smilax is to be had at 15 cents a string.

The directors of the Philadelphia Wholesale Flower Market, at a meeting held last Thursday afternoon, decided to hold an introductory social reception in the new market room, 1224 Cherry street, on Thursday evening, October 30, from 8 to 11 p. m. At their request an invitation is extended through these columns to all connected with the business in its different branches in this city and vicinity, or indeed as far as this invitation is read, to be present on this occasion. Not only are the proprietors expected but their principal assistants as well, and, best of all, each man is to be accompanied by his wife or sweetheart. It is to be a large family gathering to open in a social way this new system of wholesaling the products of the many establishments that supply this city with flowers. There will be speaking by representative men in the trade, entertainment will be furnished by talent, refreshments will be served and there will be good music and dancing. The rooms will be elaborately decorated; in fact, nothing will be left undone to make the occasion one of the most delightful gatherings of the trade ever held in this city. Remember the date and hour, Thursday evening, October 30, at



OFFICE OF THE P. J. BERGMANS COMPANY, AUGUSTA, GA.

S. p. m. Make but this one engagement for the evening and keep it religiously.

At the October meeting of the Horticultural Society last Tuesday there was a nice display of flowers. Cosmos and chrysanthemums were the leaders and there were some fine flowers shown. The reports on the coming exhibition in November show that there promises to be an unusually fine display. Magnificent plants are to be seen at the private places and some choice seedlings will be staged for the first time.

Everyone is delighted with the news that the coal strike is over and if this means that coal will return to something like a normal price before cold weather sets in, there will, indeed, be great cause for rejoicing.

Robert Craig & Son's new carnation range is now completed and planted. They should cut an immense quantity of flowers, as the plants are very fine and the new Burnham houses are par excellence.

W. K. Harris has commenced to cut his early yellow chrysanthemum, Florence Harris. It is a fine, stiff, extra long-stemmed flower of a straw color. It is a great seller; \$3 per dozen is the price.

The small store on Eighteenth below Chestnut was opened by John Shellem, Jr., and not by his father as previously reported.

David Bearn, of Bala, is reported a victim of the film flam game to the extent of \$20. K.

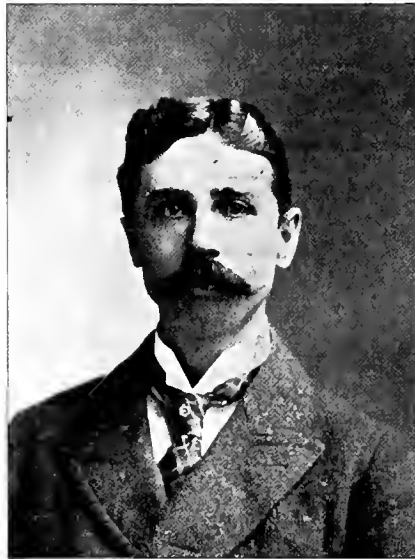
St. Louis.

CLUB HOLDS CARNATION MEETING. — MANY GOOD BLOOMS EXHIBITED. — GROWER APPROVES OF EDGELY ROSE. — CHINA MERCHANT GIVES A FLOWER SHOW. — RETAIL FLORISTS DECORATE TABLES FOR PRIZES.

The attendance at the last meeting of the St. Louis Florists' Club, October 16, was very good and as usual a very pleasant afternoon was spent. The trustees' list of essays for the coming season was read and adopted with some additions. A vote of thanks was extended to the St. Louis *Star* for reminding the public that the pink carnation was Mr. McKinley's favorite flower. They sent out cards to be placed in the store windows a week before the anniversary of his death. No flower show of any size will be held this season. The members who have any specialties in chrysanthemums are asked to bring a few for exhibition purposes at the next meeting, which will be held on November 13. Outsiders who have new varieties are asked to send a few for exhibition. Three prizes will be offered for the best display, \$5, \$3 and \$2. They will be sold at auction after the meeting for the benefit of the club. At the last meeting several vases of carnations were displayed. One vase contained a bunch of Enchantress, exhibited by J. D. Thompson, of Joliet, staged by Frank M. Ellis, to whom they were sent. As the judges reported, they spoke for themselves. The St. Louis Carnation Company had a vase of fifteen different new and approved varieties each of which was good. A. S. Halstead, of Belleville, had several blooms of Beauty and Queen of Edgely. The two varieties are planted on the same bench, have the same soil, water and ventilation, yet the grower claims that the Queen of Edgely has two flowers to the American Beauty's one, both of the same quality. Some very interesting matters were brought up through the use of the question box. Most of the discussion was concerning

the carnation and its diseases. The meeting adjourned at 5:30 p. m. It is proposed that hereafter we meet at 2 p. m. instead of three o'clock.

The china department of the Simmons Hardware Company has for the last three days been the scene of a unique and beautiful floral display. The company offered two cash prizes of \$50 and \$25 for the best decorated dinner table, and four of the leading florists were entered in the competition, giving the public a very fine display. The table winning first prize was put up by Ostertag Brothers. The massive centerpiece was made up of pink and white cattleyas and lily of the valley and Asparagus plumosus. Additional color was given by a profusion of electric lights arranged among the flowers. Charles Connon carried off



JOHN D. THOMPSON.
(President-elect Chicago Florists' Club.)

the second prize with a table set for a golden wedding. The center piece was a vase of large white and yellow chrysanthemums in a very tall vase set on a mirror, bordering this was a circle of the same flowers and colors, while at intervals around the edge small bunches of three blooms held the smilax that was draped. Large bronze candelabra were used. Ellison & Tesson put up a fine table. The center piece was composed of orchids, lily of the valley, adiantums and asparagus set in a cut glass vase. Surrounding this were four larger or tall vases containing oncidiums, phalaenopsis and dendrobiums. On each of these vases near the top were small electric lights surrounded with smilax, which hid the wires. Scattered around the table were small vases with orchids and valley. The fourth table was on the same order as the first, that is low, so one could see over all the flowers when seated. It was the second most elaborate decoration. The centerpiece was of Golden Gates and adiantum, with a vase of cattleyas and valley in the center, with numerous colored electric lights. The napery was of the finest. R. J. M.

BATTLE CREEK, MICH.—Henry M. Burt, formerly with Eldred & Warburton, has opened a flower stand in Strain's restaurant, 20 Main street.

Chicago.

HEAVY RECEIPTS ON A WEAK MARKET.—OVER-SUPPLIES IN ALL LINES.—CHRYSANTHEMUMS SELLING MUCH UNDER LAST YEAR.—ROSES OF LOW AVERAGE GRADE.—EVEN WHITE CARNATIONS HANG FIRE.—CLUB MATTERS.—NOTES OF INTEREST IN THE LOCAL MARKET.

The market has been more than liberally supplied with stock during the past week. Cuts have been coming on with a majority of the growers and receipts are several times as great as they were in the first week of the month. For one thing, the chrysanthemums have been coming in very heavily. With a number of the growers the blooms have been maturing at such a rate that they are now pretty well cut out of all except the late varieties. There has been all kinds of stock offered, but little of it has been what would be classed as of the exhibition grade. Prices have been low all along the line, some well posted men estimating the value of chrysanthemums this season at all the way from twenty-five to forty per cent under a year ago. The stock which last year brought \$2 a dozen is now well sold at 10 cents per bloom. At these low prices it should be possible to move large quantities of chrysanthemums for All Saints' day next week and there are already some very large orders on for shipment to New Orleans Wednesday and Thursday of next week. The Beauty is the one item which seems to have held up in demand during the past week, and of this supplies have so increased that all requirements are met, both as to quality and price, with something to spare. Of tea roses there are thousands in the market, but only a small proportion of the stock grades up to the shipping requirements. One of the best posted wholesalers in the market said this week that he had never seen a time in October when the stock averaged so poorly as at present, which seems surprising, to say the least, for most growers report the season a very favorable one. There are oceans of short Golden Gates, and the call for funeral flowers is so well supplied by other things that these are very poor sale indeed. Carnations have taken a drop in price this week, even the whites hanging fire. Up to last Monday a white carnation was good property, but since then orders have been filled right along, and there has even been a surplus which has served to pull the averages down severely. Little really good stock is seen in the market at present, but there will be a steady improvement. Violets are also coming in heavily and the quality is good considering the warm weather, but sales have to be forced. The run of October weddings is supplying a fair demand for orchids, lily of the valley and smilax, but it cannot be said that the market has seen a shortage on any single item during the past week. With the growers throughout the whole Mississippi valley just coming into crop it looks as though the next two or three weeks would see unwieldy supplies on this market.

Nearly sixty made the trip to Joliet October 22, on invitation of the J. D. Thompson Carnation Company, and the popular manager left no stone unturned to make his guests feel at home. The penitentiary was visited during the forenoon and after dinner, at the Duncan house, the party was conveyed right up to the greenhouses by special car and engine. The stock and houses were in prime condition throughout, but, of course, Enchantress was the center of attraction. Little can be added to the



THE CHICAGO FLORISTS AT THE J. D. THOMPSON CARNATION COMPANY'S, JOLIET, ILL., OCTOBER 22, 1902.

praise already bestowed on this carnation, but it is pleasant to record that the variety appears to be even better than its sponsors have claimed. Well satisfied with the day of pleasure and enlightenment the party returned to town early in the evening by special car, refreshments being served enroute.

The regular meeting of the Florists' Club was held at Handel Hall October 22. Six new members were elected, namely, Philip J. Foley, of the Foley Mfg. Company; J. E. Jensen, John C. Ure, James P. Brooks, Roderick Mayer and Edward Satro. The special feature of the meeting was the election of officers, which resulted as follows: President, J. D. Thompson; vice-president, James S. Wilson; secretary, George Wienhoeber; financial secretary, Alex. Henderson; treasurer, Edgar Sanders; trustees, F. F. Benthey, George Woodward, John P. Risch, Philip J. Foley and Walter Kreitling. The sum of \$50 was donated to the premium fund of the Horticultural Society of Chicago. The next meeting of the club, which ordinarily would fall November 12, during the flower show, will be omitted.

The outing of the employes of Vaughan's Seed Store, which had been several times delayed on account of the weather, took place October 19, when a large party enjoyed the delightful day and fall scenery at Western Springs. Luncheon was served in the firm's extensive packing sheds, which were decorated for the occasion.

One of the good chrysanthemums coming in this week has been the Robert Halliday, from Gunnar Teilmann, Marion, Ind., who thinks it the best of all the yellows. Mr. Teilmann is a regular exhibitor at the flower show here and may be expected to show some particularly good stock this year.

Carnations are selling on the street stands at 5 cents a dozen, which will be cheering news to the growers. Roses, too, have become more of a glut each day as the week advanced.

Miss Hanke, for five years with A. Lange, and before that for a long time with the Art Floral Company, was married on Thursday to Frederick Klein.

Peter Reinberg has entered in thirty-five classes for roses and carnations at the Kansas City show. Leonard Kill will go out to stage the exhibits.

Kennicott Brothers say there is still good sale for choice chrysanthemums; they got \$4 per dozen for some really first-class yellow Wednesday.

The George Wittbold Company has a house of Begonia Gloire de Lorraine which is in fine shape. They report business excellent this fall.

This has been flower show week at A. Lange's. He sent out announcements to his trade and had many visitors and good business.

A. Dietsch left on Monday to spend the winter in Texas and Mexico. He has not yet succeeded in ridding himself of the asthma.

The meeting of the executive committee of the Horticultural Society of Chicago, called for October 20, was postponed.

Anton Then is at home from his New York trip. He has a son with John N. May, at Summit, N. J.

C. L. Washburn is now able to be at the store a few hours each day but is yet far from well.

Max Ringier, of Amling's, was operated on for appendicitis on Thursday.

Visitors: L. W. Wheeler, of Vaughan's Seed Store, New York; Mrs. W. A. Gontter, Battle Creek, Mich.; H. W. Turner, Redondo, Cal.

Cincinnati.

TRADE VERY DULL AND STOCK ACCUMULATING IN WHOLESALE HANDS.—NO QUOTABLE PRICES.—NOTES OF VARIOUS DOINGS.

There is a tremendous glut of roses in this city at the present time and it is a hard matter to move them at any price. Some very good chrysanthemums are being received and sell at from \$1.50 to \$2.50 per dozen, ordinary stock going at from 50 cents to \$1. Carnations are coming in more plentifully and if the bright weather continues, with as little business as at present, it is pretty hard to tell what prices stock will bring in a few days.

A visit to Gus Meier at Hyde Park shows his place to be in fine shape and the prospects good for a big cut of Bride and Bridesmaid this winter. His poinsettias are grand and he will be able to cut them with a six-foot stem, should any occasion require it.

Harry Altick, of Dayton, O., had a white sport of Glory of Pacific before the chrysanthemum committee last Saturday. This looks to be a good thing and for an early white it is pretty hard to beat in size and form.

Wm. Murphy has opened a city store at 130 East Third street, where he will have better facilities than formerly for handling his shipping trade, both cut flowers and cuttings.

C. J. McWilliams and Miss Ella C. Russell, daughter of Patrick Russell, the Price Hill florist, were married October 14.

Frank Ball is in Columbus attending the annual meeting of the grand lodge, F. and A. M., this week.

Louis Kyrk, formerly with McCullough's, has opened a new commission house on Third street.

L. M. Malcher, of Chicago, was in the city on business this week. D.

Toronto.

TRADE GOOD AND STOCK GENERALLY IN ADEQUATE SUPPLY.—QUALITIES GOOD ALL ALONG THE LINE.—CLUB HOLDS A MEETING.—FALL EXHIBITION ABANDONED.—EMPLOYEES FORM A UNION.—OTHER NOTES.

The Canadian Thanksgiving day, on Thursday, October 16, called for larger quantities of flowers than many of the florists expected. Chrysanthemums, which do not move any too freely, were much in demand, and towards evening almost everyone was sold out. The market, not being heavily supplied in any one line of stock, was pretty well cleaned up on everything. Business since has been very good and stock has been equal to the demand. The many orders for funeral work and weddings keep a surplus from accumulating. There are many chrysanthemums, but good demand, in both local and outside points, uses up all good blooms. Roses are good and the quality is nearly up to the winter average. Liberty is becoming very plentiful, the flowers have good rich color and stems are longer. Meteors are exceptionally fine and others well up to the average. Carnations are very plentiful, though white are still scarce. Lily of the valley has been scarce the last few days, the demand being so heavy that several lots had to be imported to fill orders.

The Florists' and Gardeners' Club held its first meeting at St. George's Hall, October 21. President Chambers being out of the city, First Vice-President Collins took the chair. Owing to the Pavilion having been burned the past summer, the special committee found no convenient hall in which to hold the chrysanthemum show, which has been postponed for this season. However, a special grant, which had been made by the Electoral District Society, has been applied for as prize money for the annual rose and carnation show which is to be held in the spring. At this meeting heretofore

there has been no prize money offered, but the coming season the show will be much more elaborate.

The florists' employes held a meeting in Richmond Hall last week for the purpose of forming a union. Twenty-eight members were enrolled and officers elected for the ensuing year. How this union is going to benefit its members, or what their intention is, seems a matter of some doubt, but the principal thing was to get the union started.

Frank Duffort, of Little York, has been cutting some very nice carnations, mostly Morning Glory and Glacier. His pink and white Ivory were the first in this vicinity and blooms were exceptionally fine for this early season.

W. Hill recently purchased the place adjoining and has taken out the partition, using one-half of the store for fruit and the other half for flowers. He has also built a conservatory at the rear of the store.

Thos. Plumb has remodeled his store. Plate mirrors and a new window have added materially to the appearance of the place and his Thanksgiving window of wheat was very attractive.

Azaleas have arrived in fine shape this season. The plants have retained all their foliage and seem well set with buds.

Ernest Collins, foreman of the greenhouses at the Horticultural Gardens, has returned from his trip to Europe.

I. G. D.

Lowell, Mass.

WEATHER FAVORS INCREASED PRODUCTION.—ABUNDANT SUPPLIES FOR LARGE OCTOBER BUSINESS.—AN OPENING AND OTHER NOTES.

The weather man has been very kind to us the past week and we hope he will continue so. At present we are enjoying clear, sunny days, which have increased the supply of stock immensely. Roses, especially Brides and Bridesmaids that were recently short in supply, are now coming in by the thousands and the prices obtained for same are small when the quality is taken into consideration. Liberty and Balduin are about the only red roses that sell at present. Meteors are coming in but with no sweet fragrance like the other two. Some very fine Beauty and Queen of Edgely are to be had at from \$1.50 to \$5 per dozen, but the supply is still limited. Morgan of good quality but very short in stem is to be had in immense quantity and cheap. With the increasing supply of chrysanthemums other flowers must suffer for awhile. The cut of Glory of Pacific is about through, and no one is sorry, for after a few days they look washy, making them unsalable. Mrs. Robinson is coming in and it is up to Bergmann to move on. Vivian-Morel has showed up in all its splendor, being the only pink available here now. Monrovia holds its own for yellow but will soon have to vacate to make room for Col. Appleton. Business is keeping up in splendid shape and October promises to hold good to the end. Patten had two weddings last week which used up considerable stock. All through the month business has been good. Last Saturday Whittet & Company were extremely busy with funeral work, taxing their greenhouses for stock of good quality.

The past week was a busy one at the Highland Conservatories. Besides having to furnish several hundred plants for the opening of the Bon Marche, they were deluged with funeral orders. On October 16 to 18 Mr. Greene had his

seventh annual opening to the public. The houses, ten in number, were all dressed up in their best, and so were the men, under the leadership of Wm. Hodge, the foreman. Each visitor was presented with a souvenir in the shape of a plant. Over 2,000 Asparagus Sprengerii in 2-inch pots, were given away.

A recent ramble through some of the private greenhouses showed some very fine chrysanthemums, especially those grown by Frank Sladen, gardener to Geo. W. Fifield.

The demand for violets the past week has been enormous and the prices have jumped skyward, for this time of the season; 75 cents to \$1 per hundred has been obtained.

John J. McManamon has political aspirations and is a candidate for representative from the twenty-fifth Middlesex district. A. M.

Cleveland.

TRADE UNPRECEDENTED IN THE HISTORY OF THE CITY.—EVERY SOCIAL EVENT REQUIRES LAVISH DISPLAY OF FLOWERS.—GOOD MATERIAL AT HAND.—NO SEVERE FROSTS AS YET.—MOVEMENTS OF STORE-KEEPERS.

Business for the past week has been good to a remarkable degree. Never before in the history of the local trade has there been such a demand for cut flowers. The society people seem to vie with one another in entertainments and lavish display of flowers. The principal call seems to be for chrysanthemums and from \$3 to \$5 per dozen is the ruling price for fair to good flowers. Roses and carnations are becoming more plentiful and the quality improving right along. Chrysanthemums and orchids were in all the store windows last week. Smith & Fetters and the Gasser Company displayed some fine spikes of Oncidium Rogersii. These, mixed with white chrysanthemums and asparagus, make a very pretty showing. Carnations are good and violets are improving in quality. Dahlias are still in abundance and cosmos can be had in quantity at any price. The light frosts we have had did not damage outdoor stock to any great extent. Nearly all of the tender stock has been housed and all preparations for a killing frost have been completed.

C. M. Wagner has moved into his new store across the way in the Schofield building and is now in a position to bid for the best trade in the city.

Mrs. Walker and her sister, Miss Seaver, and Mrs. McLean, of Youngstown, are spending a few days with friends in Cleveland.

E. A. Fetters returned to his Arizona farm this week. His partner, Mr. Smith, is recovering rapidly from his recent illness. ECHO.

Washington.

DEPARTMENT OF AGRICULTURE FINDS IT IS GIVING A FLOWER SHOW.—MANY VARIETIES OF CHRYSANTHEMUMS ON VIEW.—TRADE NOTES.

At the Department of Agriculture they are making quite a show with chrysanthemums, using the grapery to good effect. They have about 120 varieties, some single-stemmed, and those in large pots have from twelve to eighteen flowers, including most of the latest introductions. Quite a number of them are at present in full bloom, among them the following: Mme. Philippe Roger, Honesty, Iora, Mrs. J. M. Wilson, John K. Shaw, Golden Harvest, W. J. Bryan, Edgar

Sanders, Mrs. F. L. Button, Mrs. Gordon Dexter, Robert Halliday, Col. D. Appleton, President McKinley, Mira, Mrs. Henry Robinson, R. Hooper Pearson and Louis Boehmer, but the majority of the best are just showing color. They did not intend to make a special exhibit but after the plants were housed and began to show color the newspaper men got hold of it and the public is flocking there and the officials decided to make as good a show as possible. At the propagating garden they have had as good a show for the last four or five years, but the people did not take much interest in it. They have two houses of violets there, each 10x140. One was planted with diseased plants to study the violet diseases. The other was planted with eighty-two varieties for comparison. The experiments are carried on under Dr. Galloway's personal supervision.

Willie Clark, eldest son of W. S. Clark, has been confined to his bed for the last three weeks with typhoid fever in a mild form. P. G.

Indianapolis.

CARNIVAL MAKES BUSINESS.—STORES DECORATE FOR PRIZES.—HAIL BRINGS LOSS TO A NUMBER OF GROWERS.—LOCAL NOTES.

Last week's carnival and horse show brought some business to the florists. A good many extra cut flowers were sold and many business blocks and show windows were decorated with greens and flowers in competition for prizes. The decoration of the "When" took first and that of the Kahn Tailoring Company second prize. The "When" decoration was a very costly one, done in flags, ribbons and other material in the dry goods line. With the Kahn decoration Irvin Bertermann, of Bertermann Brothers, secured excellent effect with very simple material, wild smilax, oak leaf garlands and a few ribbons.

In the afternoon of October 16 a hail storm struck this city, the first one for a good many years. Most of the florists escaped without loss of glass, but Bertermann Brothers and the Smith & Young Company were slightly damaged. A. Wiegand & Sons lost about 1,000 square feet, but are insured. The heaviest losers are H. W. Ricman, who estimates his loss at about \$150, and Fred. Huckriede & Son, who were damaged to about the same extent. The Hail Association will get quite a few members here as a result of the storm.

Between now and the Kansas City show a number of Indianapolis florists are planning a trip to some neighboring city of floricultural renown.

Mr. and Mrs. John Bertermann will visit the Kansas City show. H. J.

Columbus, O.

CHRYSANTHEMUMS GROWN BY MARKET GARDENERS.—GOOD STOCK SELLING LOW.—AFFLECKS SELL PLACE AND ARE LIKELY TO DISCONTINUE BUSINESS.

Large quantities of cut chrysanthemums are already making their appearance on our Central market, among which there is some pretty fair stock, but some of these are sold very low, since they are grown by truckmen as a side issue. Thus far but few pot plants are displayed and it is the opinion of our local growers that there is no more money in pot grown material. The chrysanthemum show, which was to have been given by a society of ladies in the interest of some worthy local insti-

tutions, has been declared off on account of lack of interest.

The Atleek place has been sold and the greenhouses of about 15,000 feet of glass will be torn down by the purchaser, who has bought this most beautiful place for residence purposes. Howard Atleek states that he will likely discontinue the florist business.

John Rhein, with J. R. Hellenhat, who suffered an attack of neuralgia of the heart, is back at work again, while Jacob Reihert, with the Franklin Park Floral Company, is still confined to his home, suffering from blood poisoning.

Some beautiful beds of the large-flowering cosmos are now in full bloom about here but, strange to say, there has been very little call for the cut flower.

CARL.

Omaha.

TRADE ACTIVE.—ALL STOCK SELLING AND PRICES WELL MAINTAINED.—CHRYSANTHEMUMS NOT BADLY WANTED.—DOINGS OF THE GROWERS.

Business has been good for the last few weeks and in consequence prices have kept up well and everything sold, no matter what flowers they were. Stock is now more plentiful and good, as we are having the finest kind of weather. Chrysanthemums are coming in but mostly of the larger size. There is no rush for them and smaller varieties could be used to greater advantage. Violets are showing up well this season. Messrs. Peterson and Sorenson, of Florence, Neb., are sending in some very good ones, double and single.

Chas. Ederer has been smiling for the last two weeks because of a new son at his home. Mr. Ederer has a fine lot of young roses in his two new houses erected this season, 18x125 each.

Lewis Henderson and P. B. Flth made displays of plants and cut flowers at the county fair and honors were evenly divided. S. B. Stewart made a fine display of bulbs.

Hess & Swoboda are cutting a fine lot of carnations. They are putting in a 100 horse-power boiler in place of two smaller ones.

A. Donaghue has finished remodeling his range of houses and added one new carnation house to it, 20x150.

Jos. Frey, of Frey & Frey, Lincoln, spent Sunday here and reports good business.

Some of the Omaha florists will attend the Kansas City flower show.

C. W. Scott, of Vaughan's, Chicago, was a recent visitor. GRIPPE.

Syracuse, N. Y.

GOOD STOCK IN ALL THE LOCAL HOUSES.—ANTICIPATIONS OF A BIG SEASON'S BUSINESS.—TRADE ACTIVE AND GOOD PRICES REALIZED.—PIGEON FANCIERS.

Henry Morris has had an excellent display of chrysanthemums for the past two weeks, the quality being better than in previous years. The retail prices range from \$3 to \$6 per dozen. Mr. Morris does not grow them in pots at all, although there is quite a demand for them. Carnations are not very good, there being many bursted calyxes, but bring 50 cents a dozen. Mr. Morris has had such good success with his American Beauty roses that he expects to build a new house 25x150 and has already bought the lumber for it. Beauties now sell for from \$3 to \$9 a dozen and other roses from \$1 to \$2. Mr. Morris is beginning to pick some violets outdoors and they bring \$2 a hundred.

P. R. Quinlan & Company have two houses of benched and two houses of potted chrysanthemums which are fully up to the standard. This firm considers the white Golden Gate rose as one of the finest on the market. Carnations are a little late on account of the wet weather. Mr. Quinlan is preparing for a big business in violets, which seem to grow in popularity every year. The sale at Christmas is especially large.

L. E. Marquisee is on a trip to New York city. His Marquis is just coming on. He receives many inquiries about his new white, Empire State, and has already booked many orders for cuttings. He has a house of this carnation planted in July and August which looks fine. Mr. Marquisee is also cutting chrysanthemums. He has recently completed a house 265 feet long.

Several of the Syracuse florists are raising homing pigeons as a pastime and they say that their work is well rewarded. H. Bellamy is vice-president of the Syracuse District National Association of American Homing Pigeon Fanciers. In the cup contest a few days ago he took sixth place. Another enthusiastic fancier is Robert Bard. A. J. B.

Pittsburg.

TRADE BRISK AND STOCK MOVING NICELY.—ROSES PLENTIFUL BUT PRICES SHORT.—LARGE RECEIPTS OF CHRYSANTHEMUMS TO BE FEARED.

Transient trade is good and business is steady. The weather has been delightful and growers have their outside work about cleaned up. Roses are much improved and the supply is long. Carnations are going to excel those of last year for size and, I suppose, popularity. Prosperity. Mrs. Lawson, Goethe, Crocker and Dorothy are the leaders now and they are generally above their usual quality for this season. The supply is short as yet. Chrysanthemums are steadily increasing in variety and improving in quality. While the sale is fair yet it looks as though we were going to have an over-supply for a short period. Too many will reach the market at the same time. Cattleyas are of a high standard and meet with a fair demand. Harrisii were short. Lily of the valley is firm. Violets are much improved and the sale is good.

Mr. and Mrs. Philip Langhans celebrated their tin wedding on Monday evening, October 20. They were the recipients of many presents suitable for that occasion. Among the number was a ehamois bag containing \$500 in tin.

J. B. Murdock & Company are still heating their houses with a temporary boiler. Their new battery of boilers are on the ground but owing to slight alterations they have been unable to get them into position.

A letter from Mr. Langhans, of Wheeling, W. Va., expresses his satisfaction with the progress of his new store. It has been an up-hill fight but it is worth while.

Charlie Hoffmeyer, of Carnegie, met with a painful accident on Monday, a sharp instrument falling on his left foot.

Miss Maxwell, of Wilkinsburg, has greatly improved her store and the general tone indicates prosperity.

A. M. Murdock is making an artistic orchid display. E. L. M.

DANVILLE, ILL.—Frank B. Smith & Son have secured a lease on a larger and better store, North and Vermilion streets, and will occupy it November 1.

Minneapolis.

SOCIAL AFFAIRS MAKE BUSINESS GOOD.—RED ROSES AND WHITE FLOWERS THE SCARCITIES.—VARIOUS NOTES.

A large number of weddings and social functions last week helped to cause an unusual demand for stock which at present writing is not at all plentiful. Meteor roses were the only tens that were exceedingly hard to get, although Bride, Bridesmaid, Liberty and Golden Gate were cleaned up daily. Beauties with long stems were scarce. Carnations are improving in quality and the cuts are increasing. Violets are appearing more plentifully and find ready sale at from \$1 to \$1.50 per hundred. Chrysanthemums are not seen in large numbers yet and the prevailing color is white, which insures a good sale, as white flowers are not plentiful.

John Monson had two large decorations last week, which took quantities of flowers and wild smilax.

H. Barsch has been supplying the market with tuberoses of very choice quality.

R. J. Mendenhall has given a chattel mortgage for \$4,274.00, it is said.

The growers have been busily engaged in boxing their Holland bulbs.

C. F. R.

Buffalo.

WOMEN DO SUCCESSFUL FLOWER BUSINESS.—TRADE BRISK AND STOCK IN SHORT SUPPLY.—NOTES OF LOCAL INTEREST.

Speaking of lady florists, in Buffalo we have four who are very active. Miss R. M. Rebstock, on Main street, Mrs. Schoenhut and Miss Reinhart, on William street, and Miss Donovan, on Elk street, are each doing a very successful business. Mrs. Schoenhut has four greenhouses, where palms and bulbous stock are grown. The man who opens a store in their locality would find pretty hard competition.

We were pleased to hear of Patrick Welch's anniversary and extend our best wishes. Everyone in Buffalo knows "P. W."

Trade is fair and stock good, what there is of it. There are a number of weddings but no large receptions this week.

The B. F. C. are about due for a meeting and I think one is to be called for next week.

Palmer & Son have appeared on the streets with fine new wagons.

W. F. Kasting is unusually busy with fall orders. BISON.

Nashville, Tenn.

STOCK NONE TOO PLENTIFUL FOR HORSE SHOW DEMANDS.—DOINGS OF THE GROWERS.—A BIG COAL PILE.

The horse show last week made a large demand for flowers, especially Beauties and white roses, the horse show colors being red, white and blue. The blue flowers to fill orders were scarce, violets not being in much supply yet.

Geney Brothers are rebuilding their greenhouses on higher ground, so as to have a dry boiler room. Their stock looks well, especially chrysanthemums.

McIntire Brothers are putting down a well for water. A hole 200 feet deep yields very little, but they hope for better results in the next 200 feet.

T. S. Joy wears a broad smile on his face these days; it is a big coal pile, thirty-five car loads, their winter's supply.

JUNE.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
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ing only to the back pages.

The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines only.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

BEWARE of the palm and bogus check
swindlers who are again abroad.

THE coal mines were reopened October
23; now see how long it takes for prices
to get back to normal.

It is stated that there will be no regu-
lar exhibition at St. Louis, Indianapolis,
Buffalo, Detroit or Toronto this season.

THE mailing label on your paper shows
when your subscription expires; when
you send your renewal note that the
date changes within two weeks; it will
serve as your receipt.

THE chrysanthemum Society of America
has appropriated a sum not to exceed
\$150 for paying express charges to pro-
cure large specimen plants for the exhibi-
tion at Chicago November 11 to 15.
Those who wish to avail themselves of
the society's liberal offer should address
E. A. Kanst, assistant secretary, 5700
Cottage Grove avenue, Chicago.

Greenhouse Building.

Cochituate, Mass.—George Fullick, one
house.

Lawrence, Mass.—A. H. Wagland, two
houses.

Fairhaven, Mass.—H. H. Rogers, three
conservatories 19x65.

Keene, N. H.—L. P. Butler & Co., house
17x50.

Syracuse, N. Y.—Henry Morris, Beauty
house 25x150.

Essex, Conn.—Frederick Scholes, one
plant house.

Injured Carnation Blooms.

ED. AM. FLORIST:—I have a bench of
White Cloud carnations which are giving
a crop of diseased blooms; about seventy-
five per cent are of no use. The plants
are healthy and giving a good stem.
The soil is three parts sandy loam and
one part well-rotted cow manure. The
good blooms are of fine size; the others
show brown or dead spots as soon as the
buds begin to open and they never attain
their full size. There are good and bad
flowers on the same plant. What is the
trouble and the remedy? C. V. K.

It is pretty hard to tell what the
trouble is without seeing the blooms, but
from the description I should judge that
it is a very bad case of thrip. If that is
the case the remedy is to fumigate with
tobacco stems sprinkled with a small
handful of red pepper to each half bushel
of stems. Do this every evening for ten
days or two weeks, as there seems to be a
big lot of the thrip in the houses. Thrips

are very small insects, almost invisible
to the naked eye, but the matured insect
can be found in the heart of the flower or
bud and is a dull brown or black and is
very active, jumping as soon as he sees
the light. If this correspondent examines
closely he will likely find a good lot of
these fellows about the flowers but if a
careful investigation fails to find any,
then I could not suggest any remedy unless
I could see the plants growing.

ALBERT M. HERR.

Full of Information.

ED. AM. FLORIST:—I enclose \$1 for
renewal of my subscription to your paper,
which is hard to beat and full of informa-
tion, a paper I can not do without.
Pittsburg. GEO. J. LEARZOF.

Society of American Florists.

DEPARTMENT OF PLANT REGISTRATION.

Jacob Becker, Fifty-second and Market
streets, Philadelphia, Pa., registers new
rose Ideal, a sport from La France,
flower pink without the bluish tint or
tendency to curl the petals which are
characteristic of La France, foliage
heavier, darker green and not so large as
in the parent. W. J. STEWART, Sec'y.

Large Damages Obtained.

The suit of M. H. Walsh and Miss Fay
of Wood's Holl, Mass., against the N. Y.,
N. H. & H. railroad for injury to roses
has been settled for \$20,000. This suit,
which has been followed with great inter-
est by horticulturists, was for damages
resulting from the smoke and gas of
burning tar. The railroad company
demolished a round house and burnt up
the debris, including the tarred roof. Mr.
Walsh's valuable seedling roses as well
as the garden roses which have contrib-
uted so many prize winning displays at the
Massachusetts Horticultural Society's
shows, were practically ruined. The suit
has been in progress for some time.

Chrysanthemum Society of America.

Following are the reports of the com-
mittees judging seedlings and sports:

Cincinnati, October 18.—Harry M.
Altick, Dayton, Ohio, exhibited Estelle, a
Japanese reflexed, white variety which
scored 85½ points commercial scale. It
is a white sport of Glory of Pacific, differ-
ent from Pacific, Polly Rose or White
Pacific by being built up in center, one-
third deeper and petalage being more
irregular than above named. Mr. Altick
claims it to be earlier by a week than
Pacific grown under same conditions.
He began cutting same on October 4,
1902. EDWIN LONSDALE, Sec'y.

Session for Flower Growers.

ED. AM. FLORIST:—G. C. Creelman,
secretary of the Ontario Fruit Growers'
Association, has notified me that it is
proposed to add a new feature to the
programme at their next annual meeting,
to be held at Walkerton, Ont., on Decem-
ber 1 and 2. A special session will be
held for those interested in the cultiva-
tion of plants and flowers. Papers on
these subjects will be read and Mr. Creel-
man is anxious to secure the attendance
of other gentlemen who are interested,
trade or otherwise. This opportunity
should not be lost, as a full report of the
meeting is issued by the government.

A. H. EWING, Sec'y C. H. A.
Woodstock, Ont.**St. Louis World's Fair Buildings.**

A REPLY TO J. C. VAUGHAN.

MR. J. C. VAUGHAN, Chicago, Ill.

Dear Sir:—When I answered your letter
this morning I was not aware of the fact
that it had been printed in the AMERICAN
FLORIST as an "open letter." I have just
found such to be the case and beg to cor-
rect the wrong impression under which
your labor in two or three particulars:

You refer to the great prominence given
to horticulture at the Buffalo exposition.
Since that department was in my charge
I can speak with some knowledge of it.
I remember that you had no exhibit in
the horticulture building but that the
material you sent was planted at various
attractive and showy points upon the
grounds. You will doubtless remember
that in the central court of the exposi-
tion no horticulture exhibits were, with
one slight exception, permitted. At this
exposition there are about 200 acres of
land between and surrounding the build-
ings of the main group all of which will
be available for first-class floral exhibits.
This will be a much more prominent
space than was possible at either Buffalo
or Chicago, except perhaps the Wooded
Island at the latter exposition.

The partial block plan printed in the
AMERICAN FLORIST, on page 411, will
naturally be filled out later by giving the
details of the additional exhibits to be
located; this will show that all of the
ground west of the French Government
building is to be covered with foreign and
state buildings, thus bringing the hill
upon which is located the Agriculture and
Horticulture buildings very nearly into
the center of the grounds. Neither of
these buildings could have been placed
where the plat is marked "concessions"
by reason of the contour of the grounds,
unless there had been supplied for por-
tions of the buildings supports at least
fifty feet in height; this would have made
a rather awkward appearing building.

I saw a note in a St. Louis paper last
week to the effect that you were here and
regret exceedingly that you did not come
out and let me show you over the
grounds. I am sure that I should have
been able to show you, by ocular demon-
stration, that the very best location on
the whole grounds is that occupied by
the buildings for Horticulture and Agri-
culture. I should also have been able to
show you that there are acres upon
acres of ground available between and
around all of the buildings upon which
there may be planted floral and plant
exhibits of the kind in which you are
interested.

I sincerely hope that the next time you
are in St. Louis you will give me an
opportunity to show you all about the
arrangement of the grounds and build-
ings, after which, if you feel that there is
just cause for criticism, I shall not offer
the slightest objection. In the interest
of that harmony, however, which should
prevail and has always prevailed between
the department of horticulture and the
exhibitors in all of those expositions
with which I have been connected, I hope
that you will not offer criticism to the
public until such an opportunity has
been given you to know from a personal
examination what are the facts.

It is the desire of this exposition that
horticulture be presented in a better way
than it has ever been shown at any expo-
sition. I believe that both the opportu-
nity and the facilities have been provided
and that you would say so were you to
go to the bottom of the matter. With a
sincere desire to bring about this end,

and requesting the cordial and hearty co-operation of all horticulturists, I am, Yours very truly,
(Signed) **FREDERIC W. TAYLOR,**
Acting Chief, Dept. of Horticulture.
St. Louis, Mo., October 20, 1902.

OBITUARY.

HENRY MOORE.

There died in Memphis, Tenn., October 21, one of the pioneer florists of the south. Mr. Moore was a native of Pennsylvania and when a young man came south, before the war between the states. He enlisted in a confederate regiment and marched and fought all through the conflict. At the surrender he came to Memphis and engaged in the florist business. By a combination of fortunate circumstances coupled with an untiring energy and a love of his chosen occupation, he amassed a fortune sufficient for him to retire from business in 1892. He leaves a devoted wife, children and grandchildren. His funeral, under the charge of his brother Odd Fellows, was largely attended and numerous floral offerings from the trade attested his popularity with his fellow florists.

FREDERICA A. GUDE.

Mrs. Frederica A. Gude, of Washington, died October 15, of heart failure after a short illness at the residence of her son, Wm. F. Gude. The funeral was held October 17, interment being at Prospect Hill Cemetery. In respect to her wishes her six sons acted as pall bearers. They are Geo. A., Henry W., Charles, Adolphus, Alexander and William F. Gude. Mrs. Gude has been a widow since January 17, 1887, and when her husband died their six sons then acted as pall bearers. She was born in Bieblingen, Werthenberg, Germany, July 20, 1827, came to America in 1852 and was married in Lynchburg, Va., in 1853. She had nine children, seven sons and two daughters. Besides the six surviving sons there are twenty-two grandchildren. Mrs. Gude had only been a resident of Washington for about one year, having lived at Takoma Park, Maryland, for the previous thirty-one years.

Catalogues Received.

J. C. Williams, Montclair, N. J., nursery stock; Victor Lemoine & Sons, Nancy, France, miscellaneous plants; The Alabama Rose Gardens, Newbern, Hale county, Ala., roses; J. Bauscher, Jr., Freeport, Ill., seeds and floral designs; Samuel C. Moon, Morrisville, Bucks county, Pa., trees and vines; Thaddeus N. Yates & Company, Philadelphia, Pa., trees, shrubs, vines, etc.; Peter Lambert, Trier, Germany, roses; Harlen P. Kelsey, Boston, Mass., nursery stock; Jackson & Perkins Company, Newark, N. Y., nursery stock; Thomas Meehan & Sons, Germantown, Pa., trees and shrubs; Frank Banning, Kinsman, Trumbull county, Ohio, gladioli; H. Cannell & Sons, Swanley, Kent, Eng., nursery stock; Roustain Servan & Company, Saint-Remy-de-Provence, France, miscellaneous plants; Ernst Benary, Erfurt, Germany, flower seeds; Pinchurst Nurseries, Pinchurst, N. C., trees, shrubs, plants and bulbs; Gilbin & Company, Utica, N. Y., boilers and heating apparatus; Pittsburg Cut Flower Company, Ltd., Pittsburg, Pa., cut flowers and florists' supplies; Wm. Paul & Sons, Waltham Cross, Herts, Eng., roses, trees, etc.; P. D.

Hauser & Sons, San Antonio, Texas, plants, floral designs, etc.

ROCKFORD, ILL.—H. W. Buckbee expects to make extensive exhibits of plants and blooms at the Chicago and Kansas City flower shows.

ORANGE, N. J.—The New Jersey Floricultural Society will have no show this year. It was at first proposed to have a show and all necessary arrangements were made, schedules being printed and issued, but they did not succeed in raising a guarantee fund and the project was dropped for this year.

GRAND RAPIDS, MICH.—The *Herald* says: "Crabb & Hunter have leased the Robertson farm, adjoining the Masonic home property, for a term of seventeen years, from Trustee Charles W. Garfield. The firm will build large greenhouses and go into the nursery business on an extensive scale."

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the *AMERICAN FLORIST* for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By all-around florist and gardener; 12 years' experience. Open 1st Nov. Address **E. E.**, care American Florist.

SITUATION WANTED—As rose grower to take charge of section, Beauties or teas. References. Chicago preferred. Address **C. A.**, care American Florist.

SITUATION WANTED—By lady with 15 years' experience, a position in store. References furnished. State terms when replying. **J. E. W.**, care American Florist.

SITUATION WANTED—By all-around gardener and florist. First-class references furnished. Married, no family. Private place preferred. **F. F.**, 980 38th St., Chicago.

SITUATION WANTED—By experienced man for general greenhouse work. Best of references. Age, 30. Boston or vicinity preferred. Address **A. D.**, care American Florist.

SITUATION WANTED—By experienced florist and landscape gardener; also good decorator. Speaks English, German and French. Best of references. Address **R. W.**, care Am. Florist.

SITUATION WANTED—To take the management of a cut flower growing establishment; competent and trustworthy. Wages \$55.00 to \$60.00 per month. References; married. Address **MANAGER**, care American Florist.

SITUATION WANTED—By gardener and florist; 15 years' experience in various branches; strictly temperate and industrious. All rose grower; first-class references. Permanent place and fair wages expected. **L. H. B.**, 778 North Chestnut St., Springfield, Mass.

WANTED—Young, experienced, lady florist. Address **R. H.**, care American Florist.

WANTED—To correspond with Arthur Detreb. Apply to **JOHN L. WYLAND**, De Haven, Pa.

WANTED AT ONCE—Private gardener; single. Call. **Mrs. Thos. Wilce**, 708 W. Harrison St., Chicago, Ill.

WANTED—Rose grower; good man with first-class references. **SINNER BROS.**, 3139 Ridge Ave., Rogers Park, Chicago.

WANTED AT ONCE—Reliable man, to grow roses, carnations and general stock. Permanent place. State wages. Address **F. P. L.**, care American Florist.

WANTED—Partner in greenhouse; well established place; party will have opportunity to buy. Must have from \$1000 to \$1500. Owne, has other business. Address **THE VAIL SEED Co.**, Indianapolis, Ind.

WANTED—A good all-around florist, a single, honest, temperate young man, not afraid to work. One that can wait on customers if necessary. State wages expected with room. Give some ideas as to ability. **W. M. LOTT**, Warren Pa.

WANTED—Competent, industrious man for growing general stock of pot plants; only reliable, steady party need apply. State wages and other conditions, German preferred. Address **Wm. ROETHKE FLORAL Co.**, Singdaw, W. S. Mich.

FOR SALE—Horizontal tubular boiler 18x15 with plug hat dome and with 39 3/4-in. flues, very suitable for heating hot houses. Apply to **WISCONSIN BOX Co.**, Wausau, Wis.

FOR SALE—\$1,000 buys the best greenhouse and equipment in Northern Iowa. Located in city of 15,000; easy terms, but must sell quick. A big chance to make money. Address **MAHER & MAHER**, Fort Dodge, Iowa.

FOR SALE—An old established greenhouse business; entire plant rebuilt; steam heat. With all the ground or part; also with or without residence. Situated in Cleveland, O. A bargain. Address **O. K.**, care American Florist.

FOR SALE—Greenhouses of F. C. Austin at Harvey, Ill., with stock, including valuable collection of palms, ferns and other plants. For full information address **THE AUSTIN MFG. Co.**, Harvey, Ill.

FOR SALE—FLOWER STORE—Good will of business, fixtures and stock of finely located retail store on one of the most fashionable thoroughfares in the city of Chicago. A snap for energetic party. Small capital. Address **NASH**, care American Florist, Chicago.

Wanted FIRST-CLASS HEAD GARDENER

for large estate south. Unmarried preferred. Apply, stating age, experience, salary and address of previous employers, to

W. E. PAGE, Fernandina, Fla.

WANTED 2 TRAVELING SALESMEN,

First-class energetic men of gentlemanly appearance and good habits. Must have a thorough knowledge of the seed, bulb and nursery trade. Preference given to parties with an established trade. Applications treated strictly confidential. State age, previous experience and salary expected. Address **E. P. C.**, care Am. Florist.

Wanted, To Rent,

for 5 or 10 years with intention of buying, on May 1st, 1903, 20,000 to 25,000 sq. feet of glass within 40 miles or less of Chicago. No stock wanted. Hot water heat. Everything must be in good condition. Good R. R. connection necessary. Send particulars to **F. P. B.**, care American Florist.

FOR SALE—Established retail florist business, store, dwelling and five greenhouses, 1/2 acre ground, in city of 35,000, account of poor health of man and wife, will sell at a bargain, part time. Address **EASTERN IOWA**, care Am. Florist.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

If you want to get the want you want to get, you want to get your want ad into the

AMERICAN FLORIST

Try it now.

Every advertisement represents a genuine want. It pays to answer them.



No 1. \$2.50
 No 2 \$3.25
 No 3 \$3.75
 No 4. \$4.50
 No 5. \$5.00
 No 6. \$6.00

WHEN you want Flowers, any and all kinds, order from **DEAMUD**. He has in quantity the following:

ORCHIDS,
Valley, Violets, Beauties,
Tea Roses, Carnations,
Chrysanthemums.

J. B. Deamud,
 51-53 Wabash Ave., Chicago.

Caldwell's Kwality Kounts Brand
 Wild Smilax now on hand.

The F. R. WILLIAMS CO.
WHOLESALE FLORISTS.
 Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.
 Telephone Connections. **CLEVELAND, OHIO.**

McKELLAR & WINTERSON CO.
 Supply Everything Used by Florists, Nurserymen, Gardeners, Seedsmen..... Cemeteries, Parks, Etc.
HEADQUARTERS on CUT FLOWERS
45-47-49 Wabash Ave.
 Telephone Main 1129. **...CHICAGO**

RICE BROTHERS
 WHOLESALE FLORISTS and FLORISTS' SUPPLIES.
 Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.
 Special attention given to shipping orders. Send for price list of supplies.
128 N. Sixth St., Minneapolis, Minn.

Holton & Hunkel Co.
 Wholesale Florists,
 457 Milwaukee St., MILWAUKEE, WIS.

...GEO. M. KELLOGG...
 Largest Grower of... in the West. **Cut Flowers**
 Give us an order and we will please you.
 Our Greenhouses at PLEASANT HILL, MO.
 Our Store, 906 Grand Ave., KANSAS CITY, MO
 LONG DISTANCE PHONE AT EITHER PLACE.

Galax AND Leucothoes.
 Selected, Bright and Brilliant.
 Wholesale Trade Solicited.....
J. L. BANNER & CO., Montezuma, N. C.

Wholesale Flower Markets

MILWAUKEE, Oct. 23.

Roses, Beauty, long, per doz.	2.00@2.50
" " med. "	1.00@1.50
" " short "	.50@ .75
" Liberty.....	6.00@ 8.00
" Bride, Bridesmaid.....	4.00@ 6.00
" Meteor.....	4.00@ 6.00
" Golden Gate.....	4.00@ 6.00
" Perle.....	2.00@ 6.00
Carnations.....	1.50@ 3.00
Violets.....	1.00
Chrysanthemums, 1.00@3.00 per doz.	
Adiantum.....	.75@ 1.00
Smilax.....	12.00@15.00
Asparagus.....	65.00
Common ferns.....	.25

PITTSBURG, Oct. 23.

Roses, Beauty, specials.....	25.00@30.00
" " extras.....	18.00@20.00
" " No. 1.....	10.00@15.00
" " No. 2.....	5.00@ 8.00
" Kaiserin.....	2.00@ 8.00
" Bride, Bridesmaid.....	2.00@ 6.00
" Meteor.....	2.00@ 6.00
" Liberty.....	2.00@ 8.00
Carnations.....	1.00@ 2.00
Chrysanthemums.....	6.00@20.00
Lily of the valley.....	2.00@ 4.00
Violets.....	.50@ .75
Smilax.....	6.00@15.00
Adiantum.....	.75@ 1.00
Asparagus.....	35.00@40.00
" Sprenger.....	2.00@ 3.00

CINCINNATI, Oct. 23.

Roses, Beauty.....	5.00@25.00
" Bride.....	2.00@ 3.00
" Bridesmaid.....	2.00@ 3.00
" Meteor.....	2.00@ 4.00
" La France.....	2.00@ 4.00
" Kaiserin.....	3.00
Carnations.....	1.00@ 3.00
Chrysanthemums.....	4.00@20.00
Lily of the valley.....	3.00@ 4.00
Asparagus.....	50.00
Smilax.....	12.00@15.00
Adiantum.....	1.00
Common ferns.....	.15

ST. LOUIS, Oct. 23.

Roses, Beauty, medium stem.....	10.00@25.00
" Beauty, short stem.....	3.00@ 8.00
" Bride, Bridesmaid.....	2.00@ 5.00
" Golden Gate, Carnot.....	2.00@ 6.00
" Meteor.....	2.00@ 6.00
Carnations.....	1.00@ 2.50
Chrysanthemums.....	10.00@25.00
Tuberoses.....	4.00@ 5.00
Lily of the valley.....	4.00
Smilax.....	12.50@15.00
Asparagus Sprenger.....	1.50
" Plumosus.....	.75@ 1.00

E. H. Hunt,
WHOLESALE.....
Cut Flowers
 THE "OLD RELIABLE,"
76 Wabash Ave., CHICAGO.
Poehlmann Bros. Co.
 Wholesale Growers of
 and Dealers in **Cut Flowers**
 All telegraph and telephone orders given prompt attention. **35-37 GREENHOUSES: Morton Grove, Ill. Randolph Street, CHICAGO, ILL.**

Bassett & Washburn
76 & 78 Wabash Ave., CHICAGO.
 Wholesale Dealers and Growers of **Cut Flowers**
GREENHOUSES: HINSDALE, ILL.

The Cincinnati Cut Flower Co.,
437-439 Main St. WHOLESALE FLORISTS. CINCINNATI, O.
 Consignments Solicited. Special Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.
Michigan Cut Flower Exchange.
 Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around.
BRONZE GALAX, \$1.00 per thousand.
26 Miami Ave., DETROIT, MICH.

H.G. BERNING
Wholesale Florist
1322 Pine St., ST. LOUIS, MO.

Frank M. Ellis,
WHOLESALE FLORIST,
1316 Pine Street, ST. LOUIS, MO.
CONSIGNMENTS SOLICITED.

C. A. KUEHN,
Wholesale Florist,
1122 PINE STREET, ST. LOUIS, MO.
A complete line of Wire Designs.

Pittsburg Cut Flower Co., Ltd
WHOLESALE FLORISTS.
Pittsburg, Pa.
 Please mention the American Florist when writing.

Good Stock and Plenty Of It.

CALL on us for all your wants. Plenty of **Chrysanthemums**, all colors, all sizes, all grades, all selling at very reasonable prices. **Beauties**, all lengths of stem; fine stock and enough for all. We now receive some of the very best **Brides** and **Maids** coming to this market. Also short stemmed stock. Name your needs. **Orchids, Valley, Violets, Greens.** Everything in season. "Right goods at right prices." Send a postal for our interesting free weekly price list.

E. C. AMLING,

The Largest, Best Equipped and Most Centrally Located Wholesale Cut Flower House in Chicago.

32-36 Randolph St. L. Dis. Phones 1999 and 1977 Central. Chicago, Ill.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

WHOLESALE Cut Flowers

Florists' Supplies, Seeds, Etc. Galax and Leucothoe, Wild Smilax.

Special attention given to shipping orders. Long distance 'Phones, Main 584 and 748.

J. M. McCullough's Sons
316-318 Walnut St., Cincinnati, O.

WIETOR BROS. Wholesale Growers of Cut Flowers

All telegraph and telephone orders given prompt attention.

51 Wabash Avenue, CHICAGO.

PETER REINBERG, Grower and Wholesaler of Cut Flowers.

600,000 FEET OF GLASS. Headquarters for American Beauty.

51 Wabash Ave., CHICAGO, ILL.

FRANK GARLAND, Wholesale Grower of Cut Flowers

SPECIAL ATTENTION GIVEN TO HARDY CUT **FERNS**
55-57 WABASH AVENUE, CHICAGO.
Telephone Central 3984

It is good business policy to mention the

American Florist

When you write to an advertiser.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty

WHOLESALE GROWER OF CUT FLOWERS

Benthey & Co.

F. F. BENTHEY, Manager.

Wholesale Commission Florists

Consignments solicited. 31-35 Randolph St., Chicago.

Wholesale Flower Markets

CHICAGO, Oct. 24.		
Roses, Beauty, 36-inch stems		3.00
" " 30 " "		2.50
" " 24 " "		2.00
" " 20 " "		1.50
" " 15 " "		1.00
" " 12 " "		.75
" " 6 to 8 " "	per 100	4.00@ 5.00
Liberty		3.00@10.00
LaFrance, Chateaux		3.00@10.00
Bride, Bridesmaid		2.00@ 5.00
Meteor		2.00@ 5.00
Perle		2.00@ 5.00
Golden Gate		2.00@ 5.00
Chrysanthemums, per doz.	\$1.00@	3.00
Violets		.50@ 1.00
Carnations		1.00@ 3.00
Lily of the valley		4.00@ 5.00
Harrisii, per doz.	\$2.00	
Asparagus, per string	.50	
Adiantum		.75@ 1.00
Common ferns, per 1000	1.50	.15
Galax leaves, per 1000	1.25	.15
Smilax, per dozen	1.25@1.50	

LILY OF THE VALLEY.

Extra fine cut Valley every day in the year. Fine cold storage pips. \$1.50 per 100; \$13.00 per 1000.

H. N. BRUNS,
1409-1411 W. Madison St., CHICAGO.

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO.

Send for weekly price list and special quotations on 1000 lots.

Please mention the American Florist when writing.

JOHN MUNO,

Wholesale Grower and Shipper of Cut Flowers

Room 221, 51 Wabash Ave., CHICAGO.

TELEPHONE CENTRAL 3598. All telegraph and telephone orders given prompt attention.

Please mention the American Florist when writing.

GEO. REINBERG,

Wholesale Grower of Cut Flowers

Choice American Beauties.

We will take care of your orders at reasonable prices. Prompt attention.

51 Wabash Ave., CHICAGO, ILL.

Please mention the American Florist when writing.

VALLEY SAMUEL S. PENNOCK, ORCHIDS

Wholesale Florist,
1612-18 LUDLOW ST., PHILADELPHIA, PA.
Open from 7:30 a. m. to 8:00 p. m.

GEO. A. SUTHERLAND

34 HAWLEY STREET, BOSTON.

Best Boston Flowers ALL SUPPLIES.

An entire floor Devoted to Stock and Manufacturing.
Write now for quotations on Chrysanthemums and all seasonable stock.
Telephone 1270 Main.

A FULL STOCK OF

SEASONABLE FLOWERS.

CITY HALL CUT FLOWER MARKET

WELCH BROS., PROPS.

9 CHAPMAN PLACE, Boston, Mass.
15 PROVINCE STREET,

THE NEW YORK CUT FLOWER CO.

55 and 57 West 26th St.,
WHOLESALE FLORISTS,

Daily Reports. Weekly Payments.
TELEPHONES: J. A. MILLANG,
2239 Madison Sq. 2034 Madison Sq. MANAGER.

GEORGE SALTFOORD,

Wholesale Commission Florist,

46 West 29th Street, NEW YORK.

Fair dealing and prompt returns guaranteed.
Correspondence solicited.

Author of "How to Make Money Growing Violets."

ROVATZOS & MOLTZ

Buy and FLOWERS on Close
Sell.... Margin.

Headquarters, 56 West 26th Street,

WRITE, Opposite Cut Flower Exchange,
TELEGRAPH
OR TELEPHONE. NEW YORK CITY.

N. F. MCCARTHY & CO.

Best Quality

CUT FLOWERS

and Supplies,

Tel. 734 and 84 Hawley St., BOSTON.
64 Main.

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg, 6th Ave. and W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock
Every Morning

DESIRABLE WALL SPACE TO RENT
FOR ADVERTISING.

JOHN DONALDSON, Secretary.

Hardy Ferns...

Everything and anything in Florists'
Hardy Supplies at lowest prices. Esti-
mates on large orders on application.
Prompt delivery.

BOSTON FERN CO., 14 Brattle St.,
BOSTON, MASS.

Wholesale Flower Markets

BOSTON, Oct. 22.

Roses, Beauty, extra.....	10.00@25.00
" " medium.....	5.00@ 8.00
" " culls.....	.50@ 2.00
" Bride, Bridesmaid, Meteor	2.00@ 3.00
" extra.....	4.00@ 8.00
" Kaiserin, Carnot.....	3.00@ 8.00
Chrysanthemums.....	6.00@12.00
Carnations.....	1.50@ 2.50
Lily of the valley.....	2.00@ 4.00
Adiantum.....	.75@ 1.00
Asparagus.....	.50
Smilax.....	12.50@18.00

PHILADELPHIA, Oct. 22.

Roses, Tea.....	2.00@ 4.00
" extra.....	4.00@ 8.00
" Beauty, extra.....	15.00@ 35.00
" firsts.....	8.00@12.00
" Queen of Edgely, extra.....	25.00@35.00
" firsts.....	10.00@20.00
Carnations.....	1.50@ 2.50
Chrysanthemums, per doz.,	1.50@3.00
Violets.....	.50@ 1.00
Lily of the valley.....	3.00@ 5.00
Asparagus.....	25.00@50.00
Smilax.....	12.50@15.00

BUFFALO, Oct. 23.

Roses, Beauty.....	15.00@30.00
" Bride, Bridesmaid, Meteor	3.00@ 6.00
Carnations.....	1.50@ 3.00
Chrysanthemums, per doz.,	\$2.00@3.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50



HARDY Cut Dagger and Fancy Ferns.

A No. 1 quality \$1 per 1000.
Brilliant Bronze and Green
Galax, \$1 per 1000, in 5,000 lots.
Laurel Festooning, 4, 5 and
6c per yard. Orders by mail,
telephone or telegraph
promptly attended to. Dis-
count on large orders. L. D.
telephone 2618 Main.

HENRY M. ROBINSON & CO., 32-36 Court Sq., Boston.
Please mention the American Florist when writing.

If it is grown in Florida,

we supply it. Florida grown CYNAS LEAVES, fresh or pre-
pared; PALM LEAVES, TRUNKS, CROWNS,
SPANISH MOSS, FLORIDA ORCHIDS,
"COONTIE", etc., etc.

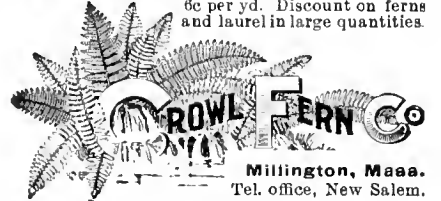
Seminole Palm Co., Haines City, Fla.
Please mention the American Florist when writing.

FANCY OR DAGGER FERNS

1st quality, 75c per 1000. Discount on large orders.

BRONZE OR GREEN GALAX \$1.00 PER 1000.

LAUREL FESTOONING, just the thing for
summer decorations, only 4, 5 and
6c per yd. Discount on ferns
and laurel in large quantities.



Millington, Mass.
Tel. office, New Salem.

Galax

Bronze, \$1.25 per 1000; Green,
\$1.00 per 1000. Southern Smilax,
best quality, 50 lb. case \$6.00;
35 lb. case \$4.50; 25 lb. case \$3.75. Leucothee
Sprays, bronze and green, assorted sizes, \$1.00 per
100. Sphagnum Moss, \$1.50 per bale. Palmetto
Leaves, \$1.50 and \$2.00 per 100.

L. J. KRESHOVER,

110-112 W. 27th Street, NEW YORK CITY.
Telephone call, 597 Madison Square.

Southern Wild Smilax,

Long Needle Pines, Magnolia Leaves,
Mistletoe, Holly,
Palm Crowns and Palm Leaves.

Orders filled promptly at lowest prices consist-
ent with choice quality.

JOHN S. COLLINS, GENEVA, ALA.

Give Us a Trial. We Can Please You.



Roses, Carnations and all kinds of
Seasonable Flowers in stock.

WM. F. KASTING, Wholesale Com-
mission Florist,
481 Washington St., Buffalo, N. Y.
Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

Beauties and Valley Leo. Niessen,

IN QUANTITIES.

On and after Sept. 15th will be open from 7 a. m. till 8 p. m. until further notice.

WHOLESALE FLORIST,
N. W. Cor. 13th and Filbert Sts., Phila.

FLOWERS SHIPPED BY
JOHN I. RAYNOR

ARE THE BEST PRODUCT OF THE BEST GROWERS FOR THE NEW YORK MARKET.

PACKING ALL RIGHT.
RICKS ROMPINESS

49 W. 28th Street, NEW YORK.
Tel. 1998 Madison Square.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.

Are supplying the most superb stock of FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.
SEND FOR QUOTATIONS.

Walter F. Sheridan,
Wholesale Florist,

Telephone 902 Madison Square.

39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square.



MOORE, HENTZ & NASH

Wholesale Commission Florists,

65 and 67 West 26th St., NEW YORK CITY.

Adjoining New York Cut Flower Co. salesroom. Finest Salesroom in the Trade. Inspection Invited. All business, selling or shipping, strictly commission.

VIOLETS. WILLIAM GHORMLEY, VIOLETS.
Wholesale Commission
Daily Receiver and Shipper of Fresh Cut Flowers.
Orchids, Roses, Carnations, Valley, Chrysanthemums.
Telephones 2100 and 2200 Madison Square. 57 West 28th Street, NEW YORK CITY.

JOHN YOUNG
Special American Beauties,
Surpassing Carnations,
Lily of the Valley, Orchids,
and all Seasonable Flowers.
51 West 28th St., NEW YORK.
Tel. 1905 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN
NEW YORK CITY FOR
Violets and Carnations
GROWERS and BUYERS make a note of this. It
will be to your advantage.
WM. H. GUNTHER,
80 West 29th St., New York.
Telephone 551 Madison Square.

Frank Millang
Open from 6 a. m. to 5. p. m.
Cut Flower Exchange, 55-57 W. 26th St.
Phone 299 Madison Square. NEW YORK.

ESTABLISHED 1872.
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COMMISSION FLORIST,
Solicits Consignments or Shipping
Orders. Satisfaction given in both.
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WHOLESALE FLORISTS.
65 and 67 W. 26th St.
Cut Flower Exchange, New York.
OPEN 6:00 A. M.
An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.
Traendly & Schenck
NEW YORK CITY,
38 W. 28th Street. Cut Flower Exchange.
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Roses, Beauty, best grades.....	15.00@25.00
" " medium.....	8.00@12.00
" " inferior.....	1.00@ 5.00
" Bride, Bridesmaid.....	1.00@ 8.00
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Carnations.....	.50@ 3.00
Violets.....	.25@ 1.00
Lily of the valley.....	2.00@ 5.00
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Chrysanthemums, medium.....	4.00@ 8.00
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Adiantum.....	.50
Adiantum Peter Crowe.....	1.25
Asparagus.....	35.00@50.00
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RELIABLE AT ALL SEASONS.
Best Flowers.
REASONABLE PRICES.
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Receivers and Shippers of
FRESH FLOWERS,
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REPRESENTING EMINENT GROWERS.
Julius Lang
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COMMISSION DEALER in FLOWERS
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Wholesale Commission Florist,
A full supply daily of the choicest
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BEST FLOWERS SHIPPED AT LOWEST
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EDW. C. HORAN,
55 WEST 28TH STREET,
Telephone 421
Madison Square.NEW YORK.
CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

SUNFLOWER seed is being offered at lower rates than for some years.

It is not thought that much shortage exists on the general list of water melon though a few are scarce.

SIMON LORENZ, of Erfurt, Germany, according to European papers, died September 14, in his 71st year.

VISITED CHICAGO: A. J. Brown and wife, Grand Rapids, Mich.; Robert W. Pommer, of D. I. Bushnell & Company, St. Louis.

HOLLY prospects in the older and central Delaware districts are not as good as usual. The Virginia crops are yet to be heard from.

WHITE onion sets are a poor sample in the west and prices the highest on the whole list. Egyptian or winter tree sets are a drug on the market.

THE outlook for bouquet green is better in the face of the past ten days of warm, bright, Indian summer weather. Reports indicate a goodly supply coming in at all points, but prices paid to pickers remain higher than last year, as stated in our former notes, and the bulk of the output will be owned at advanced rates.

LATE advices from the originators of the White Lady gladiolus would indicate that they are not able to fill any orders for the same for the coming season. Last year they lost almost their entire stock of this kind, and had to start over again with it, and the new stock, being too small yet, is not ready for dissemination. Gladiolus fanciers will have to depend for their supply for the coming season on the few White Lady which were carried over in this country.

Atlanta, Ga.

BUSINESS BRISK AND STOCK EQUAL TO THE DEMAND.—GOOD QUALITIES AND FINE RETAIL PRICES.

The weather is very fine, with a light frost on October 15, but nothing was hurt. Cosmos, dahlias and roses outdoors are at their best. The horse show the past week was quite a success. It was a boon for the florists. Everything in the way of cut flowers sold readily at good prices. The supply was equal to the demand. There were also a number of house decorations and enough funeral work to keep them all busy.

Carnations are not plentiful yet, but the outlook is fine. Chrysanthemums are coming in and there will be some fine stock soon. Beauties are scarce at present and sold well for the horse show. Brides, Bridesmaids and Kaiserins are plentiful and very fine.

Prices at present are good. Beauties retail for from \$6 to \$7 per dozen, tea roses at from \$1 to \$1.50; carnations for 75 cents and \$1; chrysanthemums for from \$3 to \$6.

The fall plant trade is picking up nicely.

Springfield, Mass.

DEPARTURE OF OUTDOOR STOCK AN AID TO BUSINESS.—CHRYSANTHEMUMS BRING LOSS TO ROSE GROWERS.

Since last writing we have had two hard frosts, which have cut off the outdoor flowers, making trade more brisk

and steadier in the stores. Chrysanthemums are coming in good quality and hurt the sale of roses. Carnations hold their own well. Violets do not go off as fast as usual, but we attribute this to the quality not being extra good as yet. There has been a fair amount of funeral work.

Some of our growers say they are going to close their places if coal does not come down in price. Others are trying oil and engine spark and some are breaking their backs sawing wood.

L. D. Robinson has just completed his new house, which he is to devote to miscellaneous stock.

L. Morgan, of Longmeadow, is cutting some fine carnations and some splendid Appleton chrysanthemums, which are unusually early.

Aitken had two good decorations last week, using up a lot of chrysanthemums, with which his houses are a fine sight at present.

Wm. Schlatter and C. F. Fairfield both report business as fair. A. B.

DAVENPORT, IA.—The local papers started the report that Otto Klingbiel had sold out to W. J. Orendorf. The fact is that merely a good order of stock was sold. There is no change in either place.

OVER 2,000 ACRES IN CULTIVATION.

Braslan Seed Growers Co.

Growers for the Wholesale Trade Only.
Correspondence solicited. SAN JOSE, CAL.



Field of Improved Prize Head Lettuce ready to cut for seed crop 1902.

Cucumber Seed. FIDDLER'S SEEDLING.

The finest cucumber for table use and for pickling. Superior to all other varieties for forcing. A prize winner and seller. House of it illustrated in *Am. Florist* July 26, page 430. \$2.00 PER 100 SEEDS.

Mrs. C. N. Richardson, Waverly, Ill.

Strictly New England GROWN SEEDS.

SPECIALTIES—Onion (Southport Globes), Turnip Seed and Sweet Corn, Beet, Parsnip, Carrot, Cabbage. We can answer all questions without finching as to quality and where grown.

The E. B. CLARK CO., Milford, Conn.

Mushroom Spawn Fresh Importation

FERTILE. PRODUCTIVE.

English in bricks, per 100 lbs., \$3.50 f. o. b. New York, \$7.00 f. o. b. Chicago. Write for prices on quantity.

Vaughan's Seed Store, CHICAGO. NEW YORK.

ESTABLISHED 1802

THORBURN'S SEEDS

Send for special low prices on DUTCH HYACINTHS

for forcing or bedding, and LILIAM LONGIFLORUM.

J.M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

Orchids!

Arrived in fine condition: CATTLEYA TRIAN.E. The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

Lager & Hurrell, SUMMIT, N. J. Orchid Growers and Importers.

Please mention the American Florist when writing.

BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.

CHICAGO, ILL., October 25, 1902.

To the Trade: We are now able to handle any kind of an order, as supply has so increased. We can pick out first quality enough for all. **Plenty of American Beauties, cheap and more than plenty. Chrysanthemums "very cheap."**

SMALL ORDERS AND LARGE ONES ARE TREATED THE SAME.
CHICAGO MARKET PRICE AT TIME OF SHIPMENT.

Following are the current prices: **Roses, Maids, Brides, Meteors, Perles**, first quality, 3c to 5c; second quality, 1¹/₂c to 2¹/₂c. **Liberty**, 4c to 8c. **Chrysanthemums**, 50c to 75c; fancy, \$1.50 to \$2.00 per doz. **Carnations**, our selection, \$1.25; Carnations, good to choice, \$1.50 to \$2.00; fancy, \$2.50. **Valley**, 4c to 5c. **Violets**, 50c to \$1.00. **Am. Beauties** run according to stem from 4c to 20c each.

EVERYTHING in SEASON at Chicago price day of shipment.

Thanking you for past favors, we remain, yours respectfully,

Kennicott Bros. Co.

42 and 44 Randolph St., CHICAGO.

Northern OHIO CUT FLOWERS

ARE the BEST SEND FOR PRICES
THE J. M. GASSER CO., CLEVELAND, OHIO.

WM. MURPHY

Grower and Wholesaler of Carnations.

We are now in a Position to ship cut blooms Direct from Greenhouses

Murphy's White Cut Bloom in quantity, the earliest, freest white Carnation to date. 50,000 cuttings sold for Jan. delivery; can handle orders for 50,000 more for same date. \$6 per 100; \$50 per 1000. Discounts on 5,000 to 10,000 lots. Our new address is 130 E. 3rd St., CINCINNATI, OHIO.

CUT 'MUMS

In any quantity from \$5 to \$25 per 100.

JOHN WOLF, SAVANNAH, GA.

Please mention the American Florist when writing.

GALAX LEAVES



Ferns, Leucothoe Sprays.

The above furnished to foreign or U. S. trade, goods guaranteed. We solicit wholesale trade.

W. A. DAVIS & CO.,
LOCK BOX 13. MARION, N. C., U. S. A.

FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)
Write, Wire or Phone the Introdurers,
Caldwell The Woodsman Co., Evergreen, Ala.
or their agents: L. J. Kreshover, New York; J. B. Deamud, Chicago; H. Bayersdorfer & Co., Philadelphia; W. E. Kasting, Buffalo; J. M. McLaughlin's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.

100,000 PANSIES.
Giant International, grown from the most expensive collections of seed from home and abroad, transplanted, fine, bushy, some in bud and bloom, by express, \$1.00 per 100; \$8.00 per 1000. From seedbed, \$5.00 per 1000. **Giant Pansies**, from finest American-grown seed, held-grown seedlings, 50c per 100, by mail; \$3.00 per 1000, by express. Also **Daisies** and rooted cuttings of bedding plants. **LUDWIG MOSBAEK, 8500 ANTHONY AVE., SOUTH CHICAGO, ILL.**

Pansy Plants.

MME. PERRET, the finest strain on the market, large plants that will bloom soon at 50c per 100; \$3.50 per 1000; 3,000 for \$10.00.
J. C. SCHMIDT, BRISTOL, PA.

Please mention the American Florist when writing.

PANSIES

Roemer's Superb Prize Pansies. The World's Best.

STONG, FINE STOCKY PLANTS,
Mixed colors, by mail, 75 cents per 100; by express, \$4.00 per 1000; \$7.00 per 2000; \$10.00 per 3000; \$15.00 per 5000; \$25.00 per 10,000.
Large plants in bud and bloom, \$1.25 per 100; \$10.00 per 1000.

CASH WITH ORDER.
PETER BROWN, Lancaster, Pa.

H. Wrede, LUNEBURG, GERMANY PANSY SEED.

155 First Prize, the highest awards Chicago, Hamburg '97, Paris 1900. 1000 Seeds, finest mixed, 25c. 1 oz. " " " " \$2.25

Price List on application. Cash with order.

Zirngiebel Giant Pansies,

Trade packages at one dollar each. Also plants of the above strains at \$5.00 per 1000, guaranteed equal to any that we ever sent out.

DENYS ZIRNGIEBEL, Needham, Mass.

Pansies Worth Raising.

Strong plants, \$4.00 per 1000; \$2.50 per 500; \$1.00 per 100, f. o. b. express here. Cash with order.

CHR. SOLTAU,
199 GRANT AVENUE, JERSEY CITY, N. J.

WILD SMILAX 50-lb. case, \$2.00. 25-lb. case, \$1.50.
SARSAPARILLA VINE, 10-lb. case, \$1.00.
VON SION BULBS, 100 bulbs, \$1.00.

F. & S. Lee, Marion, Ala.

SHIPPING LABELS FOR
...Cut Flowers

Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples....

ELECTRO OF THIS LEAF, POSTPAID, \$1.25.
American Florist Co.,
CHICAGO.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. LIGENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-ninth annual convention, Detroit, Mich., June, 1903.

The Stephen Crane nursery at Norwich, Conn., has been disposed of to Orman E. Ryther, who will conduct the establishment in his own name hereafter.

The Des Moines Nursery Company has been incorporated. The authorized capital stock is \$50,000 and the business of J. W. Hill is to be henceforth conducted under the new name.

E. W. KIRKPATRICK, of McKinney, and C. Falkner, of Waco, have been touring the state for the Texas State Horticultural Society, seeking to stimulate the pecan industry by spreading knowledge of its possibilities.

Vitis Coignetiae.

ED. AM. FLORIST:—We are mailing you under separate cover leaves of the vine sent out several years ago as Vitis Coignetiae and recommended at that time as a decorative vine producing very brilliant colored foliage in the fall. Until this season it has not met our expectations in this respect, but just now, either owing to the greater maturity of the vine, or a specially favorable season, or perhaps part of both, the vine in question is certainly a most beautiful sight, as the foliage has turned the most brilliant crimson and yellows, as you will note by the leaves sent you. If this plant will continue in the future to produce such magnificent color it certainly is well worth more free use.

ELM CITY NURSERY CO.

Baltimore.

GOOD STOCK SHOWN EVERYWHERE.—NOTES OF THE SPECIALTIES.—FLOWER TRADE IMPROVING.

Richard Vincent, Jr., & Sons' new houses are nearing completion and their great field of dahlias is, at this late date, as beautiful as ever. The double cactus dahlias, of which they have a very large collection, seem to be in general favor with the public.

Wm. Paul Binder, gardener at Willowbrook, H. A. Parr's beautiful country home, has some fine chrysanthemums and his seedlings are of exceptional merit. He has a very fine pink in the new variety, Mrs. Harry V. Casey.

A visit to Halliday Brothers was quite a revelation to me, for I have never seen such fine chrysanthemums and carnations. Their single violets are also very good. They are not growing the double variety any more.

Charitable organizations of this city will be given tickets for sale for the chrysanthemum show, and our committee will allow a most liberal percentage to aid charity.

I. H. Moss has a number of very good houses of carnations. He is doing a good business and his twenty-two acres are now filled with high class nursery stock.

Trade in Baltimore is now picking up somewhat. Cut flower business has improved considerably.

Akelhursts' new seedling carnation, a fine cerise in color, named Alice Lee Thomas, is very good.

Mrs. Lawson carnations are being grown in considerable quantity in this vicinity.

Peoria, Ill.

GROWERS GETTING CHEAP FUEL.—NOTES OF DOINGS IN THE TRADE.

Not all sections of the country are suffering for coal. Cole Brothers are buying good coal screenings, with some lump coal in it, for 1 cent per bushel and haul it themselves.

Miss Jessie Stevens, recently with Geo. A. Kuhl, is leaving for Aurora, where she has accepted a position with J. M. Smely.

The corn carnival attracted a great

many visitors and made some little business for the florists.

Chas. Loveridge is finishing repairs and new heating arrangements.

Geo. A. Kuhl, who has been ill, is improving.

PITTSFIELD, MASS.—John White and Mrs. Maria G. N. Grey were married October 20.

BARRE, MASS.—Warren H. Manning gave an illustrated lecture on landscape art in Library Hall on October 4.

THE GLENWOOD NURSERIES

EVERGREENS.

The largest and most complete assortment of SPECIMENS, sheared and of natural form. All root pruned and carefully grown.

EVERGREEN TREES, EVERGREEN SHRUBS and VINES for window boxes and Winter decorations.

DECIDUOUS TREES.

20,000 Oriental Plane Trees, 6 to 14 feet.
25,000 Oaks, in variety, 6 to 14 feet.
100,000 Maples, in variety, 8 to 18 feet.
Beech, Birch, Ash, Elms, Cinkgo, Poplars and other leading varieties.

HEDGE PLANTS.

200,000 California Privet, 1 to 4 feet. The finest grown.
Osage Orange, Berberis Thunbergii, Althaeas, etc.

FLOWERING SHRUBS.

15,000 Hydrangea Paniculata Grandiflora, 1 to 4 feet.
5,000 Deutzias (Gracilis and Lemolnei), for forcing.
A complete assortment of Shrubs of all sizes, including quantities of large shrubs for immediate effect plantings, as well as smaller grades.

CLIMBING VINES

5,000 Ampelopsis Veitchii, 1 and 2 years.
20,000 Hall's Japan Honeysuckle.
20,000 Clematis Paniculata.
English and Irish Ivies, Wistarias and other vines.
Crimson Rambler, Wichuraiana and other climbing and running roses.

SPECIAL QUOTATIONS TO LARGE BUYERS. NEW TRADE LIST NOW READY. DESCRIPTIVE ILLUSTRATED CATALOGUE ON APPLICATION.

THE WM. H. MOON CO., Morrisville, Pa.

60 MILES FROM NEW YORK.

30 MILES FROM PHILADELPHIA.

25,000 Rudbeckia The Glow
Clumps, \$3.00 per 100; \$25.00 per 1000.

25,000 Boltonia Asteroides
Clumps, \$4.00 per 100, \$35.00 per 1000.
and thousands of other varieties of

Hardy Herbaceous Plants.
150,000 ASPARAGUS,

Conover's Colossal, etc., and a full line of Trees, Shrubs, etc. Send for catalogue.
CENTRAL MICHIGAN NURSERY,
Kalamazoo, Mich.

3,000
CALIFORNIA Privet
12 to 18 inches, branched, strong,
at \$9.00 per 1000. Cash.

HENRY EICHHOLZ, Waynesboro, Pa.

ILEX OPACA
HOLLY.

Excellent, well graded and well furnished stock in sizes from 6 inches to 3 feet, at from \$6.00 to \$25.00 per 100. Send for our Trade list.
Pinehurst Nurseries, Pinehurst, N.C.

HARDY PINKS
Comet, Souv. de Sale, Earle of Carlisle, May, Gertrude.

Field Clumps, \$6.00 per hundred.
The Conard & Jones Co., West Grove, Pa.

Fine Grafted ORANGES Bearing Sizes.

Per 100
12 inch, bushy, from 4-inch pots..... \$20 00
15-18 inch, bushy, from 4-inch pots..... 30.00
Kin Kans 10-12 in., bushy, from 4-in. pots 20.00
15-18 in., bushy, from 4-in. pots 30.00
Lemons 12-15 in., bushy, from 4-in. pots.. 20.00
18-24 in., bushy, from 4-in. pots 30.00
Roses Climbing Clothilde Sonpert, strong field-grown. 10.00
Crimson Rambler, stg. field-grown 7.00

Clematis Apiifolia A fine variety, somewhat similar to C. Paniculata, but blooms earlier and lasts longer; strong plants from 3-inch pots.... 8.00
(Not less than 40 of a class at 100 rate.)

Citrus Trifoliata (Best defensive hedge plant.) Per 1000
Strong, 2 year old, field-grown..... \$15.00
Strong, 3 year old, field-grown..... 20.00

Amor River Privet (Better than California Privet.)
18-24 inch, branched..... 15.00
24-36 inch, branched..... 20.00
Not less than 400 of a class at these rates.

Rubbers, Kentias, Phoenix, Latanias, Pandanus, Ornamental Trees and Shrubs in large quantities.

WRITE FOR CATALOGUE.....

P. J. BERCKMANS CO. (Inc.)
FRUITLAND NURSERIES,
Established 1856. AUGUSTA, GA.

PAEONIAS FOR FALL...
10 distinct, best kinds, \$10.00 per 100.
Ampelopsis Veitchi, 2 year, strong... \$1.00 per doz.
Clematis Paniculata, 2 year, strong, \$1.00 per doz.; \$7.00 per 100.
Clematis, large flowering, \$2.50 per doz.; \$16 per 100.
F. A. BALLER, Bloomington, Ill.



JUST ARRIVED, SPECIAL IMPORTATION AZALEAS.

All the best sorts, such as Bernard Andrea Alba, Deutsche Perle, Vervaeoena, Simon Mardner, Mme. Van der Cruyssen, Virginiana, Empress of India, and many others.

PRICE IN ASSORTED LOTS, FOR EARLY ORDERS:

10 to 12-inch crowns, bushy plants.....	\$40.00 per 100
12 to 14-inch crowns, bushy plants.....	50.00 per 100
14 to 16-inch crowns, bushy plants.....	60.00 per 100
16 to 18-inch crowns, bushy plants.....	\$12.00 per doz.
18 to 20-inch crowns, bushy plants.....	25.00 per doz.
20 to 22-inch crowns, bushy plants.....	30.00 per doz.
22 to 24-inch crowns, bushy plants.....	36.00 per doz.

We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

BOSTON FERNS.

Extra choice lot of compact, bushy, pot-grown plants.

2½-inch pots.....	\$5.00 per 100	5-inch pans.....	\$40.00 per 100
3-inch pots.....	10.00 per 100	6-inch pans.....	9.00 per doz.
4-inch pots.....	25.00 per 100	7-inch pans.....	12.00 per doz.

VAUGHAN'S SEED STORE, 14 Barclay Street, New York.
84-86 Randolph St., Chicago.
GREENHOUSES, WESTERN SPRINGS, ILL.

CANNAS.

Strong Field-Grown Clumps.

Duke of Marlborough, Florence Vaughan, President Cleveland, Charles Henderson, A. Bouvier, Robert Christie, Queen Charlotte, Sophie Buchner and Austria, \$15.00 per 100.

Egandale, Sou. de Antoine Crozy, Sam Trelease, President Carnot, Chicago, Beaute Poitevine and Martha Washington, \$25.00 per 100.

Save heavy express charges by ordering at once by freight.

The Storrs & Harrison Co.
PAINESVILLE, OHIO.

Please mention the American Florist when writing.

We have the largest stock of
ARAUCARIA EXGELSA

in the country, May importation, raised from top cuttings only.

5-inch pots, 3 tiers, 10 inches and above.....	\$.50
5½-inch pots, 12 to 14 inches.....	.60 to .75
6-inch pots, 15 to 18 inches.....	.75 to 1.00
Specimen.....	1.25

KENTIA FORSTERIANA and BELMOREANA,
5¼ to 6-in. pots, 25 to 30 inches high. .75

FIGUS ELASTICA, 5¼ to 6-in., 18 to 24 inches high, from \$4.00 to \$5.00 per doz.

BOSTON FERNS, 6-inch pots..... .40
Cash with order please. To save express mention if pots to be taken off.

GODFREY ASCHMANN,

WHOLESALE GROWER and IMPORTER
OF POT PLANTS.

1012 Ontario Street, PHILADELPHIA, PA.
Please mention the American Florist when writing.

Primroses

CHINESE, single, mixed, 2¼-in. pot, strong.....	Per 100 \$1.50
ASPARAGUS SPRENGERI, 2¼-inch pots.....	2.00
NARCISSUS, Paper White Grandiflora.....	strong 3.00
PANSY PLANTS.....	\$3.00 per 1000; .60

CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

Here's
Your
Chance

A SPLENDID IMPORTATION OF
Fancy Ornamental Shrubs
Shade Trees and Choice Evergreens.

On exhibition day before sale. To be sold on

Tuesday, Oct. 28,

BY

N. F. McCarthy & Co. Horticultural Auctioneers,
84 Hawley St., BOSTON.

CATALOGUE TO APPLICANTS.

A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

KENTIA Belmoreana and Forsteriana, extra clean and well grown plants, 2¼, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

REX BECONIA, 2 and 3-inch, \$1 and \$6 per 100.

BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.

ASPARAGUS Plumosus, 2-inch, \$5; 3-inch, \$8 Sprengeri, 2 inch, \$3; 3-inch, \$5, per 100.

DRACAENA INDIVISA, 4, 5-in., \$10, \$25 per 100

ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100

CAMPBELL VIOLETS, 3-inch, \$4.00 per 100.

GERANIUMS, rooted cuttings, standard varieties: your choice \$1.25, my choice \$1.50 per 100.

VINCA VAR., 3-inch, \$4.00 per 100.

CINERARIA, 2-inch, \$2.00 per 100.

Chinese Primrose, 2-in., \$3; 3-inch, \$5 per 100
Cash or C. O. D.

GEO. M. EMMANS, NEWTON, N. J.

ROBT. CRAIG & SON,
Roses, Palms
and Novelties in Decorative Plants,
Market and 49th Sts., Philadelphia, Pa.
Please mention the American Florist when writing.

BUCKLEY'S October Special

Geraniums Extra strong, rooted cuttings, well-rooted and correctly labeled. Varieties: Jean Vland, \$2.00 per 100; S. A. Nutt, Alphonse Ricard, Beute Poitevine, E. G. Hill, Frances Perkins, Mme. Jaulin, Mme. Bruant, Meehan, Morton, Gaar, La Favorite, Dutchess of Orleans, \$1.50 per 100; \$12.50 per 1000, in variety.

Verbenas Our 20th Century Collection. 25 new mammoth varieties, all labeled, strong plants from 2¼-inch, \$1.50 per 100; \$12.50 per 1000.

Smilax Extra strong, 2¼-inch, equal to most 2½-inch, \$1.00 per 100; \$8.00 per 1000.

Asp. Sprengeri Strong, 2½-inch, \$2.00 per 100; 2-inch, \$1.25 per 100; \$10.00 per 1000.

Petunias Ten novelties from Dreer's latest sets, strong R. C. \$1.25 per 100.

Feverfew LITTLE GEM, rooted cuttings, 75 cents per 100.

Marguerites CHRYSANTHEMUM FRUTESCENS, both white and yellow, \$1.00 per 100.

Salvia Two best: St. Louis and Bonfire, 75 cents per 100.

The W. T. Buckley Plant Co., Springfield, Ill.

POT-GROWN CHRYSANTHEMUMS.
5 and 6-in., all the best varieties; first-class, bushy plants, none better, 15c and 15c. Will exchange.
DANIEL E. GORMAN, Williamsport, Pa.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

At New York.

On Monday afternoon the New York Florists' Bowling Club rolled to the following score:

Player	1st	2d	3d
Hansen	149	151	173
Browning	142	136	139
Traendly	132	192	148
Lang	171	159	160

At Chicago.

The bowling contingent met at McKellar & Winterson's on Thursday evening and mapped out a plan for the winter's campaign. A league of probably four teams was formed which will roll a series of weekly games. It was resolved that from the four teams the best five men be selected to represent Chicago at Milwaukee next August, it being distinctly understood that non-members of the bowling club will not be allowed to compete. A committee consisting of E. F. Winterson, Geo. Scott, Alex. Henderson and George Asmus was appointed to secure alleys and to prepare a schedule. E. A. Winterson, Charles Hunt and Walter Kreitling were appointed to secure trophies. The teams thus far assured to the enterprise represent the retailers, the wholesalers, McKellar & Winterson and Vaughan's Seed Store.

New Orleans.

CLUB SEES SHOW OF ROSES AND DAHLIAS.—FLOWERS NOW AT THEIR BEST.—CHRYSANTHEMUMS UNDER GLASS.—A BIG DAY AT HAND.

The last session of our club was a rose meeting. This is the time of the year when roses are at their best with us. Spring roses are also very good but the sun then coming heavy on them and June bugs, coming here in April, very often spoil the best blooms. From that time on and before frost they are almost perfect. Some of us had no trouble to bring very nice flowers to the October meeting. The greatest number of varieties were shown by H. Papworth and the Stecker Seed Company, represented by J. Newsham, J. St. Mard and M. M. Laponyade also had very handsome buds. F. Abele brought some of his dahlias, which are very odd in color. Discussion was opened on the beauty of the flowers. It is to be regretted that very little or almost nothing was said about the culture and the care of the roses. The manner of planting, trimming, marketing and the nature of the soil are the most important topics.

Our chrysanthemums are opening nicely and we are all looking forward to All Saints' day, November 1. Some attempt has been made this season to grow chrysanthemums under glass and so far we hear that it is quite a success. The next question will be to know if it really will pay to run greenhouses to produce a crop of flowers which has value for only a few hours in the whole year. That crop is only worth having at All Saints' day.

D. Newsham has been chosen as one of the judges of the next chrysanthemum show to be given at Crystal Springs, Miss. M. M. L.

Newport, R. I.

A VARIETY OF NOTES OF LOCAL INTEREST.—DOINGS OF THOSE IN THE CRAFT.

Several tradesmen here have supplied their greenhouses with oil stoves, believing that the supply of coal in this city may be exhausted. Overhauling, repairing and so forth seems to be the main occupation just now.

Siebrecht & Son have removed their plants to New York and closed their store here for the season. Their manager, Jos. Leikers, was given a "send off" by his friends.

W. Petersen, formerly a gardener, has

turned his abilities to the running of a hotel, now being the proprietor of the U. S. Hotel on Thomas street.

Harry Westley, formerly gardener for I. T. Burden, has accepted a position with the Hodgson Company, of New York.

Two of our prominent florists, Gibson and Butler, are in the political arena, seeking honors as city councilmen.

Robert Laurie, gardener for Cornelius Vanderbilt, is going to Colorado for a few days' recuperation. C. J. M.

WASHINGTON, PA.—Lloyd Swarthout has recovered from his illness with typhoid fever.

Heard among Chicago flower buyers: For all-around Good Clean Flowers

POEHLMANN BROS. CO.
Hold The Lead.

PRICES AND QUALITY ALWAYS RIGHT.

We desire a few more regular customers. We have the stock. Convince yourself of the quality by sending for trial order. 10 Beauties, Teas and 'Mums we are especially strong. Buy now when stock is plentiful and you won't be "up against it" when stock is scarce. We will take care of you then, as now. Flowers for funeral work at lowest market price.

Some varieties of Chrysanthemum stock plants now ready, only leading commercial varieties, price \$5.00 per 100, with special rate on larger amounts. Let us book your order now. We take better care of it when sold. Have 250 3 and 4-inch Sprenger for sale, \$4.50 per 100.

POEHLMANN BROS. CO.

Greenhouses, Morton Grove, TELEPHONE 35 and 37 Randolph St., Chicago.
Cook Co., Ill. Phone No. 201. Central 3573.

WAVE OF PROSPERITY



Is with us again, now that the coal strike is settled. To start you on your feet we will offer you

HARRISII

7 to 9, 200 in case, \$15.00. They cost us originally, \$9.00 per 100.

NARCISSUS VON SION,

Double nose mammoth bulbs at \$10.00 per 1000; original cost, \$15.00 per 1000. We have other bulbs equally as cheap if you only let us know your wants.

W. ELLIOTT & SONS, New York.

JOSEPH HEACOCK,

WYNCOTE, PA.

GROWER ...OF... ARECA LUTESCENS, KENTIA BELMOREANA, COCOS WEDDELIANA.

PANSY PLANTS

The famous DIAMOND strain of large-flowered pansies. Flowers of perfect form, with thick velvety petals. Over 60 distinct sorts and an endless variety of tints and markings. Fine, stocky plants, with 5 or 6 leaves, all colors mixed, \$3.50 per 1000; 500 for \$2.00, by express. 75c per 100; 250 for \$1.50, by mail, postpaid. Cash with order. L. W. GOODELL, Pansy Park, Dwight, Mass.

ASPARAGUS PLUMOSUS NANUS.

Strong and Bushy, 3-in. pots, per 100, \$5. TOBACCO STEMS, Fresh and Strong. Bale of 300 pounds, \$1.50.

W. C. BECKERT, Allegheny, Pa.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Dreer's Importations of Azaleas

Our importations of Azaleas have arrived and we have commenced shipments. If you have not yet placed your orders we would advise you to do so at once, in order to secure low fall prices, as well as to take advantage of low cost of transportation while shipments can still be made by freight.

We are in position to give you best qualities because our growers are among the most skilled specialists in Belgium. We can give you best values because we are not only the most extensive importers of these plants to the United States, but also because we buy for cash at best prices and give our customers the benefit of these important points.

10 to 12-inch crowns, bushy plants.....	\$4.50 per dozen	\$35.00 per 100
12 to 14-inch crowns, bushy plants.....	6.00 per dozen	45.00 per 100
14 to 16-inch crowns, bushy plants.....	7.50 per dozen	55.00 per 100
16 to 18-inch crowns, bushy plants.....	12.00 per dozen	90.00 per 100
18 to 20-inch crowns, bushy plants.....	25.00 per dozen	200.00 per 100
20 to 24-inch crowns, bushy plants.....	36.00 per dozen	300.00 per 100

We can still include in assorted lots ten per cent Mme. Van der Cruyssen, this variety being very scarce this season.

EXCEPTIONAL VALUES IN ARAUCARIA EXCELSA

The two sizes of Araucaria Excelsa offered below are the greatest values we have ever offered in this plant and you will make a mistake if you don't secure a supply for your Holiday trade:

6-inch pots, 20 to 24 inches high, 4 tiers.....	\$1.00 each
8-inch pots, 24 to 28 inches high, 4 to 5 tiers.....	1.25 each
7-inch pots, 30 to 32 inches high, 5 to 6 tiers.....	1.50 each

RUBBER PLANT—FICUS ELASTICA.

An exceptionally fine lot of 5-inch pots, plants well furnished, fifteen inches high, \$4.50 per dozen; \$35.00 per 100.

For a full and most complete line of Palms, Ferns and all Decorative Plants, see our QUARTERLY WHOLESALE LIST.

Hardy Perennial Plants, Paeonias, Phloxes, etc., etc., are one of our important specialties. We are carrying an immense stock of these popular plants. Write us for anything you may require in this line.

HENRY A. DREER, PHILADELPHIA, PA.



100,000 PANSIES

Highest Grade, Finest Stock. The Jennings Strain.

Mr. John Lewis Childs, of Floral Park, N. Y., says of the Jennings Strain: "The largest and finest colored flowers I have ever seen." By mail 75c per 100; by express, \$4.00 per 1000; 3,000 \$11.00; 5,000 \$18.00. Separate colors same price. Large plants ready to bloom Oct. 1st, \$1.00 per 100; \$8.00 per 1000. SEED, \$1.00 per pkt.; \$5.00 per oz. CASH WITH ORDER.

E. B. JENNINGS, Lock Box 254, Southport, Conn. Grower of the Finest Pansies.

Please mention the American Florist when writing.

Princess of Wales and Lady Campbell

VIOLET Plants

Strong field-grown clumps from sand struck cuttings. \$5.00 per 100; \$35.00 per 1000; Samples 10 cents.

The Albert H. Brown Co., Westboro, Mass.

PRINCESS OF WALES VIOLET PLANTS.

I have a few thousand of these at \$7.00 per 100. Will plant about 15x15.

WM. SIM, CLIFTONDALE, MASS.

VIOLETS

Imperial, field-grown, \$3.50 per 100, medium plants. Imperial, M. Louise, Swanley White, 3-inch pots, \$3.75 per 100; \$35.00 per 1000. Lady Campbell, \$3.50 per 100; \$30.00 per 1000.

SMILAX 3-inch, fine plants, \$2.00 per 100 to close out.

CRABB & HUNTER, GRAND RAPIDS, MICH.

BEGONIA GLOIRE DE LORRAINE, Begonia Light Pink Lorraine,

For July and Later Delivery, \$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near Cheestnut Hill, Pa.

Please mention the American Florist when writing.

B. & A. SPECIALTIES

AZALEAS, all sizes and varieties.

KENTJAS, 2-inch pots to 10 ft. specimens.

DUTCH, FRENCH, CHINESE and JAPANESE

BULBS in all varieties and at reasonable prices

ASK FOR FALL CATALOGUE.

BOBBINK & ATKINS,

Rutherford, N. J.

Calif'nia

ASPARAGUS PLUMOSUS,

Extra fine 3½-inch stock, \$4.00 per 100; \$35.00 per 1000. 4½-inch, \$8.00 per 100.

EXPRESS PREPAID.

Pansy Seed, 1902 Giant of California

\$4.00 per ounce, ¼ ounce at same rate.

FIELD-GROWN CARNATIONS,

QUEEN LOUISE.....\$7.00 per 100
MERMAID..... 6.00 per 100

LOOMIS FLORAL CO., Loomis, Cal.

ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong, 2½-inch, \$3.50 per 100.

SPRENGERI, strong, 2½-inch, \$2.50 per 100.

BOSTON FERNS.

From bench fit for 3, 4, 5, 6, 7 and 8-in., 2½, 3c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA

Extra fine, 4 to 7-inch pots, only 12c per leaf.

25 FINE RUBBER PLANTS, 3 feet, \$1 each, or the lot for \$20.00. CASH PLEASE.

A. J. BALDWIN, NEWARK, OHIO.

CYCLAMENS.

Well set with buds, 4-inch, \$12.00; 5-inch, \$18.00 and \$25.00.

CINERARIA, 3-inch strong, frame grown, \$5.00.

PRIMROSES, 4-inch, \$8.00.

Field-grown ASPARAGUS SPRENGERI, \$3.00, \$5.00, \$7.00 per 100.

Christ. Winterich, Defiance, Ohio.

Geraniums.

Unrooted cuttings, S. A. Nutt, Jean Viaud, La Favorite and Clyde, \$10 per 1000; 2½-inch, \$20.00 per 1000.

ASPARAGUS PLUMOSUS NANUS, 2½-inch, fine for dishes, \$5.00 per 100; \$40.00 per 1000. ASPARAGUS SPRENGERI, field-grown, \$3 and \$5 per 100.

SMALL FERNS, for dishes, in 6 best varieties, at \$3.00 per 100; \$25.00 per 1000.

BOSTON FERNS, from bench, fine plants, fit for 4, 5 and 6-inch pots at \$15, \$20 and \$25 per 100; 2½-inch, \$3.00 per 100; \$25.00 per 1000.

CHRISTMAS PEPPERS, 4-inch, \$5.00 per 100.

ADIANTUM CUNEATUM, 4-inch, \$6.00 per 100.

CASH PLEASE.

Carl Hagenburger, W. Mentor, Ohio.

ASPARAGUS SPRENGERI

from Flats, \$1 per 100; \$7.50 per 1000.

PANSY WESTERN GIANT FLOWERING

Trade pkt., 10c; \$2.00 per oz.

ASPARAGUS SPRENGERI

1,000 Seeds, \$1.50.

EXPRESS PREPAID.

WESTERN CARNATION CO.

E. N. FANCHER, Mgr. LOOMIS, CAL.

All The Best CARNATIONS

The Leading Novelties of 1903.

The Best Varieties of 1902.

All the Standard Varieties.

Order your Rooted Cuttings NOW.

GEO. HANCOCK & SON, GRAND HAVEN, MICH.

Kansas City.

CHECK SWINDLER CAUGHT IN THE ACT.—WILL GET A TERM IN JAIL.—FALL FESTIVITIES ENCOURAGE FLOWER TRADE.—PROSPECT IS FOR A RECORD BREAKING EXHIBITION.

Fall festivities have come and gone. Upward of 100,000 visitors were in the city and as a result a considerable quantity of stock was moved, also creating a demand for small palms and ferns for country trade. Our big event, the Priests of Pallas ball, created a demand for Beauties and altogether the florists report an increase over last year for the same time. Prices advanced all along the line, with the exception of teas. Beauties led, not only in price but also in demand, wholesaling at from \$1 to \$5. Carnations jumped to \$3 and \$4 per hundred for fancy. Violets brought from 75 cents to \$1. Chrysanthemums were plentiful and prices dropped suddenly from \$3 per dozen to \$1.

A very smooth check swindler made the rounds of the Kansas City florists and as a result John Schneider and Arthur Newell are out an average day's profit. St. Louis florists may be glad to learn that we caught this fellow next day, after his operations here, and now have him where, as Newell remarked, his clock will be fixed. Rock was tried but he failed to be taken in, and he made an ineffectual effort to catch him. His plan was to order a funeral design delivered to a place where there was an actual funeral, give card of sympathy of some church society and tender a forged check for about twice the amount of the cost of the design and then walk off with the change.

The genial All-American Thorpe and his assistant, Mr. Lindsay, are now working in earnest on our big flower show. They are pleased at the prospect. For instance, they have a letter from one exhibitor saying that he has 140 varieties of chrysanthemums in sight for exhibition on mossed banks. It seems a prodigious number and when the premium list was first issued there were letters from several growers saying that the class for seventy-two varieties was the limit, that ninety-six was not to be thought of.

It required a carload of southern smilax, 2,600 yards of white bunting and 5,000 artificial Beauties to do Convention Hall for the ball. Rock handled this job.

Several good weddings are reported this week, also plenty of funeral orders, thereby keeping stock well cleaned up.

ATHOL, MASS.—The greenhouses and residence of the late James Sutherland, Jr., have been sold to James Sutherland, Sr., who will now carry it on in company with his son David, under the firm name of James Sutherland & Son.

PALMS, FICUS, AZALEAS, Etc.

PALMS.

- KENTIA BELMOREANA, 2½-in. pots, \$6.00 per 100; \$50.00 per 1000.
- KENTIA BELMOREANA, 3-in. pots, \$12.00 per 100; \$100.00 per 1000.
- KENTIA BELMOREANA, 24 to 28 inches, fine bushy plants, \$1.25 each; \$15.00 per doz.
- KENTIA BELMOREANA, 30 to 32 inches, perfect condition, \$1.75 each; \$20 per doz.

- CYCAS REVOLUTA, 60c, \$1.00, \$1.25 \$1.50 and \$2.00 each.
- AZALEAS, 10 to 12-in. crowns, \$35 per 100.
- “ 12 to 14-in. crowns, \$45 per 100.
- “ 14 to 15-in. crowns, \$55 per 100.
- FICUS, TRUE BELGIAN VARIETY.
- 4-in. pots, heavy strong stock, \$25 per 100.
- 4-in. pots, lighter plants, \$15 per 100.
- BOSTON FERNS, 2½-in. pot, \$4.00 per 100.
- PRIMULA CHINENSIS, 2½-in. pots, \$2.50 per 100.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.



- ARECA LUTESCENS, per doz.—2½-inch, 75c; 3, \$1; 3½, \$2; 4, \$3.
- KENTIA BELMOREANA, per doz.—2½-inch, \$1.50; 3-inch, \$2; 3½-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20; 6-inch, \$18.
- KENTIA FORSTERIANA, per doz.—2½-inch, \$1.50; 3-inch, \$2.00; 3½-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20.
- LATANIA BORBONICA, per doz.—2½-in., 60c; 3, \$1; 6, \$7.20; 7, \$10.
- PANDANUS VEITCHII, per doz.—5-in., \$12; 6 in., \$18; 8-in., \$42.
- PANDANUS UTILIS, 4-in., \$3 per doz.
- NEPHROLEPIS BOSTONIENSIS, per doz.—5-in., \$3; 6-in., \$6; 7-in., \$9; 8-in., \$12; 9-in., \$18; 10-in., \$24.
- ASPARAGUS PLUMOSUS NANUS, per 100—2-in., \$4; 3-in., \$8; 4, \$12.
- ASPARAGUS SPRENGERI, per 100—4-inch, \$12.
- PHOENIX CANARIENSIS, 6-inch, \$6 per doz.
- SEAFORTHIA ELEGANS, 5-inch, \$5 per doz.
- DRACAENA INDIVISA, 4-in., \$2; 5-in., \$3; 6, \$5; strong, \$3 per doz.
- ADIANIUM, 2 in., \$4; 3-in., \$8 per 100. Small ferns for dishes \$3 per 100; \$25 per 1000.
- FERN BALLS, well furnished with leaves, \$3 to \$5 per doz.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

Cut Gladiolus Spikes

of the HIGHEST QUALITY, in lots of from 100 to 100,000. Pink, scarlet, crimson, white, light, yellow, blue, lavender and heliotrope; in fact, almost every shade imaginable.

Write for prices and particulars, stating your requirements.

ARTHUR GOWEE, "Meadowvale Farm," Long Dist. 'Phone, BERLIN, N. Y.
U. S. Representative and Grower of GROFF'S HYBRIDS.

Watch this space for bulb advertisement later.

Roses and Carnations

- 3,000 strong 3-in. Brides, Meteors and Golden Gates, \$4 per 100; \$30 per 1000. 2-inch, \$2 per 100; \$20 per 1000. Fine healthy plants.
- 3,000 very fine Marquis and Scott, 12 to 15 in. across, field-grown, \$4.50 per 100. A great bargain at this price.
- 4-in. Asparagus Plumosus, \$15 per 100.
- Some good 4-in. hot water pipe at \$8 per 100.

W. H. GULLETT & SONS, LINCOLN, ILL.

Ericas, Palms

Flowering Plants and Bay Trees.

Cut blooms of LILY OF THE VALLEY at all seasons, \$3 and \$4.00 per 100.

Write for my Wholesale Catalogue.

ANTON SCHULTHEIS, College Point, N. Y.

Orders booked now—delivery in September—for my Nephrolepis Fern

"ANNA FOSTER"

Small plants, \$25.00 per 100; larger plants prices on application.
BOSTON FERN now ready at \$25 and \$50 per 100.

L. H. FOSTER, 45 King St., Dorchester, Mass.

"Fumigation Methods"

BY PROF. JOHNSON.

Every Grower needs this book..... Price \$1.00

AMERICAN FLORIST COMPANY,
324 Dearborn Street,CHICAGO.

Boston Ferns,

2, 3, 4, 5-inch. Write

Geo. L. Miller, Newark, Ohio.

The COTTAGE GARDENS, QUEENS, L. I.

SEND FOR PRICE LIST OF
Peonias, Herbaceous Plants, Phlox,
Azaleas, Specimen Trees and Shrubs.

Chicago Carnation Co. Joliet, Illinois.

KANSAS CITY FLOWER SHOW



NOVEMBER 3 to 8 INCLUSIVE.

"Mum's the Word"

AMONG THE BIG SPECIALS:

- \$400 for Dinner Table Decorations.
- \$400 for American Beauty Roses.
- \$250 for U. S. Flags made of Natural Flowers.
- \$150 for Best Seedling Chrysanthemum.
- \$150 for Best 100 Blooms any one variety 'Mums.
- \$ 50 for Best Vase of Yellow Roses, not fewer than 50 Flowers, variety not before exhibited.
- \$100 for 96 varieties Chrysanthemums, 1 flower of each

Premium List now ready. Address

JOHN THORPE, Supt.,
Convention Hall, Kansas City, Mo.

This Show, as last year, under the auspices of Convention Hall Directors.

F. J. TAGGART, Director-General.

\$7,000 In Premiums \$7.000

GERANIUM 500,000 GIANT PANSIES

100,000 Cuttings in the Sand.

These will be ready in November at the following prices. S. A. Nutt, Buchner, Heteranthe, \$1.25 per 100; \$10.00 per 1000. Perkins, Poitevine, Landry, Riccard, \$2.00 per 100; \$15.00 per 1000. Jean Viaud and M. de Castellane, \$2.50 per 100; \$20.00 per 1000. Bonnot, Castris, Acteon, Harrison, La Favorite, America, La Pilot and Jaulin in small quantities at \$1.50 per 100.

Pansies

500,000 Ready Now AND UNTIL DEC. 1st.

You make no mistake when you buy Herr's Pansies, they are the kind that make you money when they come into bloom. Free by mail at 75c per 100; by express, \$4.00 per 1000.

ALBERT M. HERR, Lancaster, Pa.

CARNATION PLANTS.

- 6,000 Scott.....\$35 per 1000
- 6,000 Joost..... 40 "
- 4,000 Flora Hill..... 40 "
- 2,000 Crane..... 40 "

Extra large and fine plants. Will exchange some for Violet plants.

W. A. HAMMOND, Richmond, Va.

SMALL OR LARGE PLANTS.

Mixed of the following strains: Mme. Perret, International, Giant Trimardeau, Roemer's Show, Fancy, Five Spot and Ne Plus Ultra Strains, 50c per 100; \$3.00 per 1000; 3,000 for \$8.50; 5,000 for \$13.50; 10,000 for \$23.00.

50,000 DREER'S DOUBLE DAISIES, Snowball, Longfellow, Giant. Same price as Pansies.

5,000 FORGET-ME-NOT, 50c per 100; \$3.00 per 1000.

VIOLETS, Lady H. Campbell, 2-inch, strong, \$2.00 per 100.

3,000 VINCA, Variegated and Green, strong field clumps, \$4.00 per 100; \$30 per 1000.

PRIMULA OBCONICA, GRAND., ALBA AND ROSEA, will make fine 4-inch, some in bloom, \$2 per 100; \$18 per 1000.

UMBRELLA PLANTS, 2-in., fit for 4-in., \$1.50 per 100.

CHRISTMAS PEPPERS OR CHERRY, 2½-inch, fit for 4-inch, \$1.50 per 100. CASH.

BYER BROS., CHAMBERSBURG, PA.

CYCLAMEN

PERSICUM SPLENDENS GIGANTEUM.

Finest strain in the world, ready for immediate shipment, a splendid stock of plants, well budded, from 3-inch pots, \$6.00 per 100; \$50.00 per 1000; from 3½-inch pots, in bud and bloom, \$10.00 per 100; \$90.00 per 1000.

PAUL MADER, East Stroudsburg, Pa.

ASPARAGUS PLUMOSUS

- | | |
|---|---------|
| 2 inch, fine, \$3.50 per 100. | Per 100 |
| WITTBOLII FERNS (new), 3-inch..... | \$4.00 |
| GREVILLEA ROBUSTA, 4-inch..... | 6.00 |
| ASPARAGUS SPRENGERI, 2-inch, heavy..... | 2.50 |
| SMILAX, 3-inch, per 1000, \$18.00..... | 2.00 |
| SWAINSONA, white and pink, 3-inch..... | 5.00 |
| UMBRELLA PLANTS, 2-inch, fine..... | 2.00 |
| CAREX JAP. VAR., 3-inch, per doz. \$1.00..... | 8.00 |
- Cash or satisfactory reference with order from unknown parties. GEO. L. MILLER, Newark, O.
Please mention the American Florist when writing.

Field-Grown

CARNATIONS

Fine, Strong, Healthy Plants.

- | | Per 100 | Per 1000 |
|-------------------|---------|----------|
| PROSPERITY..... | \$4.00 | \$35.00 |
| GENEVIEVE LORD .. | 4.00 | 35.00 |
| MARQUIS..... | 4.00 | 35.00 |
| GUARDIAN ANGEL | 4.00 | 35.00 |
| METEOR..... | 4.00 | 35.00 |

PETER REINBERG,
51 Wabash Ave., Chicago.

Please mention the American Florist when writing.

San Francisco.

TRADE VERY GOOD AND STOCK MORE PLENTIFUL.—CHRYSANTHEMUMS HELP OUT IN ALL DIRECTIONS.—SOCIETY PROSPERS.—SOCIAL EXHIBITIONS.

Business has been all that could be expected for this time of the year and good stock of carnations and roses has been exceptionally scarce right along. The storekeepers have had to do considerable hustling to get enough stock for their orders. But chrysanthemums have been coming in more freely and are now in full supply. They have been very late this year owing to a very cold and windy summer and are at least two weeks behind the time. Mrs. Botton, the earliest white on this coast, a large incurved and very pure flower, is at its best now. The Queen is appearing and Monrovia is about gone. The florists are smiling again this week, as chrysanthemums will go a long way towards decorating for weddings and social functions. The first crop of carnations is in but the stems are short and flowers of second quality. Roses are also offered more freely and prices reasonable. Violets are here to stay for five months to come. The early rains have not come, which will make the sowing of sweet peas late, as the ground cannot be worked as yet.

The Pacific Coast Horticultural Society had a very successful social and dahlia show for members and their families and friends a few weeks ago. To get the members more closely acquainted is a very good idea and this plan should be kept up. It has been decided to hold a social chrysanthemum show at the beginning of November. H. Plath was reelected president and Thomas Munro vice-president.

The State Floral Society has decided to participate in the Citrus Fair and will seek to make the flower display a prominent feature by enlisting the aid of the florists of the state. GOLDEN GATE.

ERIE, PA.—S. Alfred Baur has just completed the rebuilding of seven greenhouses which puts him in good shape for the winter campaign.

Mushroom Spawn



Frequent importations from England. Always fresh and lively.

CARNATIONS

Strong, healthy, field-grown plants, grown on high land.

McGowan.....	100	1000	Portia.....	100	1000
Crane.....	\$3.50	\$30.00	Scott.....	\$4.00	\$35.00
Crocker.....	5.00	40.00	Eldorado.....	4.00	35.00
Norway.....	5.00	40.00	Daybreak.....	4.00	35.00
Joost.....	4.00	40.00	Victor.....	4.00	35.00

J. J. STYER, Concordville, Pa.

CARNATION PLANTS.

JOOST, strong, field-grown, No. 1 \$3.00; No. 2, \$2.00. LILL, No. 2 \$2.00.
VINCA VAR., strong, field-grown, \$3.00 per 100.
BEGONIA Rex, 4-in., 8c; 3-in., 5c. Cash or C.O.D.
Whitell & Co., Lowell, Mass., writes: "Thanks for first-class plants shipped promptly."

H. DANN & SON, Westfield, N. Y.

CARNATIONS Field-Grown Plants

NORWAY, extra fine, \$7.00 per 100; \$60 per 1000
GENEVIEVE LORD, 6.00 per 100; 50 per 1000

H. WEBER & SONS, OAKLAND, MD.

CARNATIONS!

FINE, LARGE, HEALTHY FIELD-GROWN PLANTS.

	Per 100	Per 1000		Per 100	Per 1000
White Cloud.....	\$6.00	\$50.00	Marquis.....	\$5.00	\$40.00
Norway.....	6.00	50.00	Guardian Angel.....	5.00	45.00
			Prosperity.....	5.00	40.00

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Unrooted CARNATION CUTTINGS or Pips

These are healthy, short jointed, A No. 1 side cuttings.

	Per 100	Per 1000		Per 100	Per 1000
QUEEN LOUISE, white.....	\$1.00	\$7.50	ARGYLE, pink.....	.60	\$5.00
MERMAID, a fine salmon pink...	1.00	7.50	JOOST, pink.....	.60	5.00
GENEVIEVE LORD, light pink..	.60	5.00	ELDORADO, yellow.....	.60	5.00
EVANSTON, red.....	.60	5.00	GEN. MACEO, crimson.....	.60	5.00
TIDAL WAVE, dark pink.....	.60	5.00	EGYPT, maroon.....	.60	5.00

Express prepaid by us at above figures.

CALIFORNIA CARNATION CO., LOOMIS, CAL.

Field-Grown Carnation Plants

Portia Eldorado	Victor Liberty	Marquis G. Lord	Gomez Nydia	} \$4.00 per 100
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J. L. DILLON, BLOOMSBURG, PA.

CARNATIONS

Field-Grown Plants.

	Per 100	Per 1000
PROSPERITY.....	\$3.00	\$25.00
MARQUIS.....	3.00	25.00
EVANSTON.....	3.00	25.00
JOOST.....	3.00	25.00

Strong, Healthy Plants.

GEO. REINBERG, 51 Wabash Ave. CHICAGO.

15,000 FIELD-GROWN

CARNATIONS

Extra strong A No. 1—Wm. Scott and Lizzie McGowan, \$25.00 per 1000; 250 at 1000 rates.

K. MELBER, Tappan, N. Y.

FIELD GROWN Carnations

150 The Marquis, 200 Gen. Gomez, 200 Ethel Crocker, 200 Daybreak, 400 Frances Joost, 100 White Cloud, 100 Bon Ton, \$5 per 100.
FARQUHAR VIOLETS, 2½-in. pots, \$3.00 per 100.

Cash with order.

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ASPARAGUS PLUMOSUS

4-inch, \$10.00 per 100; 3-inch, \$6.00 per 100.

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LILLIAN POND

The Largest and Best White.

A pure white flower averaging 3½ inches on long stiff stems. A continuous, free and early variety with a flower perfectly formed and very fragrant.

A Money Maker for You All.

Orders filled strictly in rotation, delivery commences January 1st, 1903.

PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00.

S. J. REUTER, WESTERLY, R. I.

Miss Louise

The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink shade, similar to a well colored Bridesmaid rose and average 3 to 3½ INCHES. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for FEBRUARY delivery from now on.

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Carnation Grower,

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Field-Grown. These plants have short tops and extra strong roots; are cheaper and give quicker returns than pot-grown stock; \$4.00, \$6.00 and \$8.00 per 100, according to size. For 100

ADIANTUM CAPILLUS VENERIS—One of the best for fern dishes and other decorative work, 2½-inch pots. \$3.00

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Elegantissima, a new variety of exceptional merit. 10.00

Lady Ardilaun. 8.00
Queen Charlotte. 8.00
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NEPHROLEPIS DAVALLIOIDES FURCANS—We consider this to be the handsomest fern in cultivation. Has no equal as a Christmas plant. Have a fine lot in 5 and 6-in. pans, \$5.00 and \$6.00 per dozen.

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PRIMROSES—(Chinese) separate colors, white, light pink, scarlet and blue. From the finest imported seed, 3-inch pots. 5.00

PTERIS CRÉTICA ALBO-LINEATA—Variegated; very useful and pretty, 2½-inch pots. 3.00

PYRETHRUM (Hybridum)—Gives the best of satisfaction both as to variety of color and freedom of bloom: the colors range from pure white to deep blue; field-grown. 8.00

TRITOMA UVARIA GRANDIFLORA—An old standby; strong divisions. 5.00

VALERIANA OFFICINALIS (Garden Heliotrope)—Strong divisions. 5.00

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Ficus Elastica

4 and 5-in. Pots.
Latania Borbonica and Kentias 3 and 4-in. pots

I have a fine stock of the above which is offered to the trade at a bargain. If you have room a large profit can be made on these plants in a short time. Write for prices; they are too low to quote here. **W. W. COLES, KOKOMO, IND.**

FERNS.

2½-inch Mixed Ferns. \$3.00 per 100 Cash
2½-inch Dracena Indivisa. 3.00 per 100 or
25 Mixed Ferns, prepaid. 1.00 C.O.D.

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No. 1 Smilax Special

2,000 to close out at \$10.00 per 1000 if taken at once. Need room.

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ASPARAGUS Plumosus Nanus

Extra fine 2½-inch, better than some 3-inch, \$3.50 per 100; \$30 per 1000. Extra fine 3-inch, \$5.00 per 100. Sample of either size, 10 cents free by mail. CASH PLEASE.

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FALL DELIVERY—Italia, Austria, A. Bouvier, Alsace, Burbank, \$1.50 per 100; \$12.00 per 1000. Sample bulbs sent prepaid for 25c. Write us.

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Herbaceous PÆONIAS.

Kelway's Choice Double Varieties,

All strong roots, two and three eyes each, strictly true to name and unmixed.

\$10.00 per 100, except as noted.

ABEL DE PUJOL, lilac rose.

AMBROSE VERSCHAFFELT, rose.

BEAUTE DE VILLECANTE, purplish-rose, pink center.

BRIDESMAID, light pink.

BUYCKII, flesh-rose, 12c.

CHAS. DE BELLEME, purple, shaded deeper violet.

DARK CRIMSON, the popular old crimson variety, 8c.

DON JUAN, purple.

ECLAIR, light pink, 12c.

EUBOLES, pale rose, 12c.

HESPERIDES, white, flesh guard petals.

HUMEL, rosy-pink, very large and full, extra fine; late.

LUCY MALLARD, rosy-carmine, full.

MME. CALOT, pure white, tinted rose, 12c.

MAXENTIUS, crimson.

MEDUSA, rosy-lilac.

MLE. VILLANT, bluish, yellow center, with red tips, 12c.

MODESTE, rosy-purple, crimson center.

PRINCE IMPERIAL, purple.

PRINCE PROSPER, deep crimson.

PSYCHE, flesh.

PURITAIN, light pink.

SOUV. DE L'EXPOSITION UNIVERSELLE, pink.

THISBE, delicate flesh-pink, 12c.

VESTICUS, pink.

VICTOIRE TRICOLOR, rose, rose and white center.

VIOLACEA PLENA, purple, short petals.

25 Other Choice Kelway Varieties of Double Paeonias \$10.00 per 100

Kelway's Double Paeonias, mixed 6.00 per 100

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J. T. Lovett, Little Silver, N.J.

ASPARAGUS SPRENGERI.

3-inch pots, nice plants, \$4.50 per hundred. ✪ ✪

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Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25. Manufactured by **W. J. COWEE, BERLIN, N. Y.** Sample Free. For sale by dealers.

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ROSES, from 3-inch pots. **CARNATIONS**, for all delivery, **CHRYSANTHEMUMS**, **SMILAX, VIOLETS.** In Best Varieties

Prices Low. Send for List. **WOOD BROTHERS, Fishkill, N. Y.**

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our supply of up-to-date stock cuts we will make engravings of any subject desired and sell you electrotypes for thirty-five cents per square inch. This work will be our finest grade of wood engraving, giving the same quality that characterizes our work. Send us photographs, or sketches of your needs or the objects and we will make the engravings direct from them. We can supply at short notice and at list price any

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who desires exclusive engravings we desire to say that we shall still adhere to our principle of protection and shall give his work the same careful attention as in former years. We make every style of engraving and do printing of every description to help the horticulturist to place his products before the buying public in an attractive manner.

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WE NOW OFFER "Chemicals"

for making **LIQUID COMPOST.** Dry powders all soluble in water. Composts cost less than 1/20 per gal. Correspondence invited. **EASTERN CHEMICAL COMPANY, 620 Atlantic Ave., Boston.**

Seattle, Wash.

TRADE IS BRISK AND STOCK NOT PLENTIFUL.—GOOD PRICES BEING REALIZED.—NO ROSES HERE.—LOSS OF VIOLET GROWERS.

Business is very good this month, with flowers very scarce and prices high. Chrysanthemums will not be ready for at least two weeks. Outdoor roses and carnations are about done for. Carnations are nearly all housed, only there has been so much greenhouse building this summer that most of the florists have been rather late. There has been quite a loss in the carnation fields this summer, with stem rot, and a good many are having the same trouble in the houses. Roses are not grown at all here on account of so much cloudy weather, but several will make a start to try them next year. What they need here is some one to start rose growing and then all will put up houses suitable for roses, but any kind of a house will grow carnations or chrysanthemums and violets. Violets were a failure here this summer, not from the violet disease but from red spider. The Woodlawn Park Floral Company lost two-thirds of its plants, and Bonnell has lost his entire crop.

Malmo & Company are cutting some fine longiflorum lilies from cold storage bulbs and will have some for Christmas. Everything looks favorable now for a good and prosperous winter season, with good prices. Nursery stock has begun to move, with a big demand for strawberry plants and small fruits, also ornamental and shade trees.

The Florists' Club met last Saturday afternoon, but the weather was so fine and so much work to be done that few were in attendance. J. C. R.

DURHAM, N. H.—The New Hampshire Horticultural Society is holding its eighth annual fair here from October 22 to 24 inclusive.

SALEM, MASS.—Dr. C. A. Buxton has disposed of his interest in the Salem Floral Company to E. F. Costeller, recently with Wax Brothers, Boston.

WESTERN FLORISTS...
can save money in buying
SUPPLIES
from **BARTELDES & CO.,**
1521 15th Street, Denver, Colo.
We are now booking orders for Christmas Decorations. Get our prices at once.

NOVELTIES IN FLORISTS' SUPPLIES.

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COBURG, GERMANY.
Baskets, Puerto Rico Mats, Cycas, Waterproof Paper, Glass, China.
FOR THE WHOLESALE TRADE ONLY.

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Importer and Manufacturer of
FLORISTS' SUPPLIES
Looking for Fall Novelties?
LOTS OF THEM ON EXHIBITION.
108 W. 28th Street, New York.

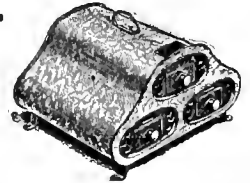


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"The kind that never fall apart."
If your seedman doesn't handle them, order of us direct.
FACTORY AND OFFICE:
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Florists! INSURE YOUR PLANTS IN WINTER at but a trifling cost.

GET A **LEHMAN WAGON HEATER.**

Over 175,000 in use by Florists, etc. The cost of heating is only **TWO CENTS** for **TWELVE HOURS CONTINUOUS HEAT.** Send for descriptive circular to



LEHMAN BROS.,
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10 Bond St., NEW YORK.

JAS. W. ERRINGER,
General Western Sales Agent,
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Please mention the American Florist when writing

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CUT FLOWER BOXES

WATERPROOF. Corner Lock Style.
The best, strongest and neatest folding cut flower box ever made. Cheap, durable, handy. To try them once is to use them always.

DON'T USE OLD STORE BOXES.

If you have any doubt, send for samples, which speak for themselves.
Size No. 1. 3x4 1/2 x 16. \$1.75 per 100; \$15.00 per 1000
" No. 2. 3x6 x 18. 2.00 " 18.00 "
" No. 3. 4x8 x 18. 2.40 " 24.00 "
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Plain, Fancy, Printed & Mounted.

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No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$2.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nicked, with three clasps for 5 to 6-inch pots, each \$1.75.

KIFT'S PATENT Rubber Capped FLOWER TUBES, 1 1/2-inch diameter, per 100, \$3.50.
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THE LARGEST, BRIGHTEST AND BEST
Horticultural Trade paper in the British Isles. It contains MORE ADVERTISEMENTS, MORE ILLUSTRATIONS and MORE NEWS than any of its contemporaries. Read by the whole of the British trade and all the best European houses every week. Annual subscription, 75 cents. Specimen copy post free. Published weekly.
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FOR CROWING SMALL PLANTS.
Two Sizes. No. 1. 11 1/4 x 12 1/2 and 11 inches high. No. 2. 15 x 16 1/2 and 15 1/2 inches high.
Are folded up in compact package of about one cubic foot; weight about 18 pounds.

SMALL OR No. 1 SIZE. LARGE OR No. 2 SIZE.
1 house.....\$ 4.50 1 house.....\$ 6.50
2 houses..... 8.50 2 houses..... 12.50
4 houses..... 16.50 4 houses..... 24.00
6 houses..... 24.00 6 houses..... 34.50

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A Florists' Plate Book.

150 Plates and nearly 300 varieties for \$3.50 or three for \$10.00.

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A. HERRMANN,

Cape Flowers, all colors,
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Reserve fund \$10,000. For particulars address
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PURE BONE MEAL

For Florists' and Seedsmen's Use.

We guarantee this Bone Meal to be Unacidulated and free from Adulterations. Prices and terms quoted on application.

You can make money and at the same time you can do your customers a favor by offering

Walker's Excelsior PLANT FOOD

Put up in neat packages for retail trade, in 150 and 250 packages. This allows you a handsome profit. Leading Florists use it in their soil and we furnish it in bulk for florists' use. We also manufacture the JAPANESE PALM FOOD for Palms, Rubber Plants and Ferns.

FLOWER CITY PLANT FOOD CO.
ROCHESTER, N. Y.

TO KILL ALL Greenhouse Bugs USE "NICOTICIDE"

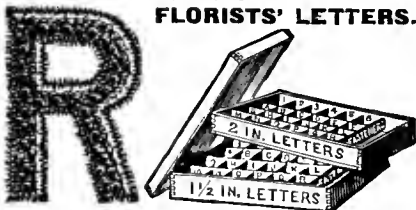
Clean and harmless as Fumigant or Spray. Ask your seedsman for it or write to

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This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/4 or 2-inch size, per 100, \$2.00.
Script Letters \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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84 Hewley St., BOSTON, MASS.

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Mr. H. Schwartz, Florist, Galveston, Tex., writes:

"I have used Bollene; it killed all insects in my hothouse and garden. I found it the safest and best remedy for scale insects, cut worms, lice, spiders, caterpillars, ants, grasshoppers, etc., and can highly recommend it. It does not injure the flowers or plants."

Bollene is a concentrated insecticide. One quart will make 50 quarts of spraying solution.

PRICE: Per quart, \$1.00; per gallon, \$2.25; in 5 gallon lots or over, \$2.00 per gallon.

THE BOLLENE MFG. CO., Galveston, Texas.



No. 37. Round Daisy-Leaf Frame, 15 inches diameter, trimmed with purple, white or pink violets. Each, 75c.



Sago Leaf.

Factory of Metal Wreaths



No. 80. Round Chrysanthemum-Leaf Frame, leaves shaded, 15 inches diameter, trimmed with St. Joseph lilies and lily leaves. Each, 75c.



No. 1020.

No. 1020 Sago Wreaths, trimmed with lilies and grasses, 35c each.

SAGO LEAVES, our own manufacture, the best preparation only and guaranteed a first-class leaf. From 18 to 36 inches long, in lots of 50, \$4.50; per 100, \$8.00.

METAL WREATHS

From 15c, up to the latest designs, as standing crosses, standing wreaths, and in fact any design that can be made up on natural flowers will be furnished in any color and style to suit your wishes.

ASK FOR MY ILLUSTRATED CATALOGUE OF METAL GOODS OR FOR MY ILLUSTRATED CATALOGUE OF DECORATIVE PLANTS.

FRANK NETSCHERT 34 Barclay Street, NEW YORK.
187 S. Clark Street, CHICAGO.

NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn, N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

The Model Extension Carnation Support.



Flushing, Long Island, Dec. 11th, 1901.
MR. THERON N. PARKER, Brooklyn, N. Y.
Dear Sir — I have used your Wire Carnation Support the last two years, in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.

Very truly,
A. L. THORNE,
La Fayette, Ind.,
July 8th, 1902.

MR. THERON N. PARKER, Harrison, N. J.

Dear Sir: — After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season.

We were much pleased with the simplicity, strength and neat appearance of the support.

Yours truly
F. DORNER & SONS Co.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.

GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs.

\$2.00 Per Year. Sample Copies Free.

Liberal terms to florists who take subscriptions.

THE GARDENING CO. MONON BUILDING, Chicago, Ill., U.S.A.

CHRISTMAS BELLS

WILL soon be ringing, whether we get coal or not. Buy your stock of scarlet immortal bells now.

They are beautiful, uniform and perfect. There's money in handling them at present prices.

We have a new line of Straw Baskets made especially for our American Trade.

Wax Roses and other Continental Novelties. A very attractive stock selected by our Mr. H. B., while in Europe.

New Immortelles are on the way and first shipment due to arrive now.

H. Bayersdorfer & Co.

50-56 NORTH FOURTH STREET,
PHILADELPHIA, PA.

New Bedford, Mass.

FARMERS' CLUB HOLDS EXHIBITION.—MANY FRUITS BUT FEW FLOWERS.—FINE AUTUMNAL WEATHER.—NOTES.

The weather is delightful and salvia and heliotrope still in full bloom, the majority of trees as green as ever. Providence is kind to us in this year of coal famine, for on account of the scarcity of coal there seemed a likelihood that several greenhouses would be shut up this winter. W. S. Brown will shut up two, E. G. Davis several. Arthur Ashley, who has been growing lettuce and cucumbers in two large hired greenhouses, has given them up and is running a woodyard. The others will try to get along with soft coal and wood until they can get anthracite again.

The South Bristol Farmers' Club had a fair in City Hall the last of September. There was a very good show of fruit and vegetables. The show of flowers was very slim. H. A. Jahn had his new white seedling carnation on exhibition, and there were a lot of palms and ferns from the greenhouses of N. H. Rodgers, Fairhaven. There was the usual quantity of grandmother's flowers. The club offers premiums but not in money. They save their money and have over \$3,000 in the treasury.

The demand for flowers is fairly good. Chrysanthemums are coming in now and are selling for \$1.50 and \$2 retail per dozen. Carnations are plentiful but the stems are rather short. There is not yet much demand for bulbous stock. Violets are blooming very nicely, especially out in the field. A. B. H.

Rhinebeck, N. Y.

The fact that Dutchess county is noted for its violets attaches special significance to the condition of the floral interests during the coal famine, says the *Kingston Express* of October 15. Already some of the violet houses at Rhinebeck and vicinity are preparing to use oil in heating the greenhouses while some in that neighborhood are said to be about to abandon the industry of violet raising altogether for this season, because of the expense which will attend the changing from coal to oil as a fuel.

ROCHESTER, N. Y.—After exclusion for more than a year the Greek flower merchants have again appeared on the streets and the florists are preparing a protest to the city administration.



GEO. KELLER & SON,
MANUFACTURERS OF
FLOWER POTS.
Before buying write for prices.
361-363 Herndon Street,
near Wrightwood Ave.,
CHICAGO, ILL.

THOSE RED POTS

"STANDARDS"
FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'FY,
HARRY BALSLEY, DETROIT, MICH.,
Red, 490 Howard St.

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST,
28th and M Streets, WASHINGTON, D. C.

DILLON'S GREENHOUSE MFG. CO. Bloomsburg, Pa.
MANUFACTURERS OF HOT BED SASH, AIR DRIED GULF CYPRESS SASH BARS AND OTHER GREENHOUSE MATERIAL.
BUILDERS of DURABLE and PRACTICAL Greenhouses at a LOW COST.
Our descriptive circular contains valuable information for every florist. Send for it.

Standard Flower Pots

The WHILLDIN POTTERY COMPANY,
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Travelling Representative, U. CUTLER RYERSON, 108 Third Ave., Newark, N. J.



STANDARD FLOWER POTS!

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2-in., in crate, \$4.88	120 7-in., in crate, \$4.20		
1500 2 1/2 " " 5.25	60 8 " " 3.00		
1500 3 " " 6.00	HAND MADE.		
1000 3 " " 5.00	48 9-in., in crate, \$3.60		4.80
800 3 1/2 " " 5.80	24 11 " " 3.60		4.80
500 4 " " 4.50	24 12 " " 4.80		4.80
320 5 " " 4.51	12 14 " " 4.80		4.50
144 6 " " 3.16	6 16 " " 4.50		

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward N. Y.
Or AUGUST ROLKER & SONS, New York Agents,
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KELLER BROS.

213-15-17-19-21-23 Pearl St.,
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Manufacturers of Standard Flower Pots, red in color, equal to the best on the market; are 16 miles from Philadelphia, best of railroad connections. We give special attention to mail orders and make special sizes to order in quantities. A postal will bring prices and discounts.

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A. F. KOHR, 1521-23 N. LEAVITT ST.,
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Standard Pots

which for strength and porosity combined are the best on the market.

RED POTS

SAMPLE POT AND PRICE LIST
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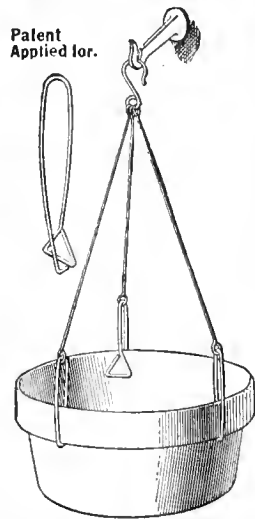
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Providence, R. I.

CHANGE IN MANAGEMENT AT POCASSET GREENHOUSES.—RANGE EVENTUALLY TO BE PUT INTO VEGETABLES.—GROWER CRUSHES FOOT.

Larned Williams has resigned charge of the Pocasset Greenhouses and the place is now controlled by his father, A. A. Williams, although Olney Williams is to be made manager and head salesman. Larned is to enter the woodcutting and teaming business throughout the Johnston district. Olney has considerable experience in greenhouse work, being engaged in the forcing of vegetables, and ultimately will convert the flower houses into a range adapted for radishes and so forth. He has an able foreman in Albert, who has been the mainstay for a number of years. The place is in good shape and will market a large lot of chrysanthemums this season.

E. E. King, of Attleboro, met with a painful mishap a short time ago. While engaged in repairing his boiler connections, a heavy metal piece crushed his foot and totally incapacitated him from further greenhouse work for some time. He now gets around on crutches.

M. M.

Worcester, Mass.

TRADE BRISK AND GOOD STOCK IN AMPLE SUPPLY.—WEDDING DECORATIONS COUNT.—LOCAL NOTES OF INTEREST.

The chrysanthemum is again with us in all its glory. Roses are now up to the winter standard and we are getting fine Beauty, Bridesmaid, Liberty, Bride and Carnot. Lange has a fine house each of Beauty and Liberty and is cutting some extra good Perle. Carnations are improving rapidly and, though still rather short stemmed, are good for this time of the season. Violets, both single and double, are plentiful and are selling well. Trade has held up steadily and we are getting some good wedding decorations. F. B. Madaus had the decorations for the Hart wedding, which were quite elaborate. The Buckingham wedding decorations were extensive and pink chrysanthemums were used exclusively. Lange did the work.

The weather so far has not been cold, which has helped the growers a great deal on the coal problem.

H. F. A. Lange is in the Maine woods after deer and moose.

H. F. Littlefield is cutting some fine chrysanthemums. A. H. L.

CYPRESS



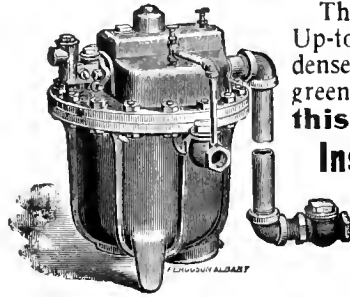
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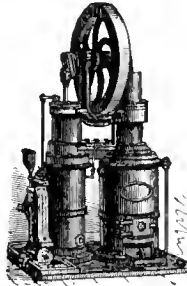
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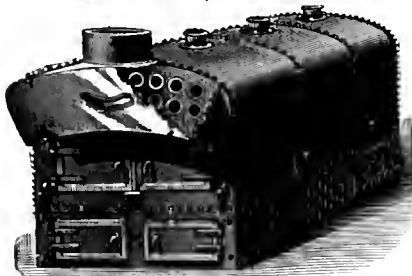
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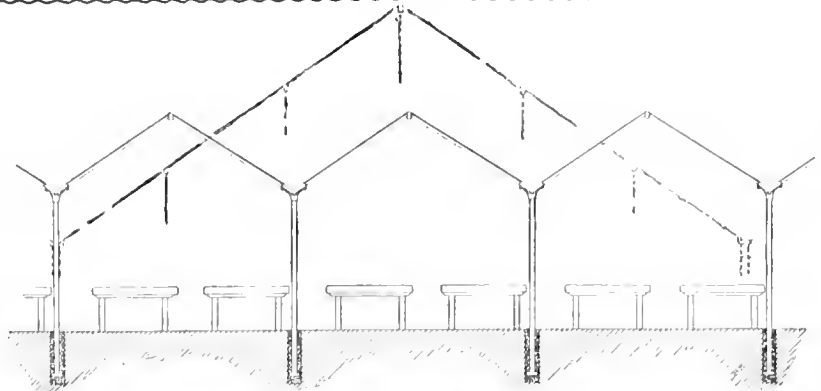
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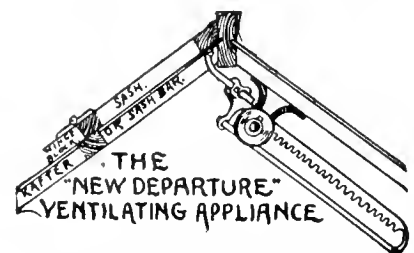
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Vol. XIX.

CHICAGO AND NEW YORK, NOVEMBER 1, 1902.

No. 752.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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THE EXHIBITIONS.

The New York Exhibition.

Madison Square Garden never presented a more beautiful picture than was made by the combined exhibition of the New York Florists' Club and the Sculpture Society. The introduction of groups of statuary, fountains, latticed arches and other artistic accessories furnished the needed setting for the stately bays, groups of tropical foliage, towering tree ferns and palms, and color to enliven all was supplied by masses of chrysanthemums, carnations and other brilliant blooms staged by most skillful growers. The arrangements were somewhat tardy and the opening night found the exhibition decidedly the best ever seen in New York, but not finished in every detail. As a result the judges started so late that awards and other details of interest must be deferred till next week's report.

In general it may be said that the orchid groups from Lager & Hurrell, Siebrecht and Koehrs are superb. The plant groups from Siebrecht and Koehrs, Pandanus Sanderi and other plants from Dreer, groups of bamboos and Japanese curios from J. H. Troy are all in keeping with the magnitude of the occasion. Three new forms of the Boston fern are shown, Pierson, Foster and Scott each staging fine specimens of the varieties bearing their names. Bobbink & Atkins make a fine display of clipped box and other formal plants for topiary work.

Chrysanthemum plants are conspicuously few, but the flowers are superb, all the best show varieties being represented. The judges are at work on the cut flower classes at the time of making this report; they are Messrs. May, Lonsdale, Scott and Powell. They have a comparatively easy job on roses, for the entries are very few. Canadian Queen, from the Dale Estate, Brampton, leads in the novelty section. Carnations are very fine. Among the most interesting is Enchantress. The judges on plants are Messrs. Falconer, Nicholson and Taplin.

The trade exhibition under the charge of Manager Cleary includes comprehensive exhibits from Vaughan's Seed Store, Peter Henderson & Company, C. H. Joosten, Lucas & Boddington, Pierson-Sefton Company, H. W. Gibbons, Thos. Weathered's Sons, Reed & Keller and Wm. Elliott & Sons.

There are many visitors from out of town, including Peter Crowe, Utica; L. E. Marquisee, Syracuse; Wm. Scott, Buffalo; W. W. Edgar, Robert Edgar, Wm. Nicholson, Peter Fisher, M. A. Patten and J. Heurlin, of the Boston district; Edwin Lonsdale, G. C. Watson, John Burton, W. H. Taplin, Wm. Kleinheinz, Huebner and Graham, Philadelphia; Wm. Falconer, Pittsburg; L. W. Duggan, Brampton; H. Eichholz, Waynesboro, Pa.; Powell, Russell, Millbrook and many others.

The Exhibition at Lenox, Mass.

The exhibition of the Lenox Horticultural Society at the new Town Hall on October 23 and 24 was the finest floral display ever staged in western Massachusetts. There were 267 entries, all from the conservatories and grounds of the splendid private estates of Berkshire county, including chrysanthemums in stately array, orchids in bewildering profusion and superb palms and decorative plants. High society's favor was freely bestowed and the hall was crowded with enthusiastic visitors. Among the largest exhibitors were Girard Foster, Chas. Lanier, W. D. Sloan, G. H. Morgan, John Sloan, A. P. Stokes, Morris K. Jessup, Geo. Westinghouse, H. H. Cook, G. G. Haven, J. E. Parsons, F. K. Sturgis, R. W. Paterson and Jos. H. Choate. The judges were A. Herrington, Wm. Duckham and W. Anderson.

Some Flower Show Notes.

Having graduated from the position of active hustler to that of (more or less) disinterested observer, perhaps a few sage reflections on flower shows, akin to those of the mule, (pride of ancestry and hope for the future being eliminated) may be put up with by the long suffering public. By the way, it is astonishing what the aforesaid "L. S. P." will accept and swallow in the way of monumental bluff, if put forth with becoming gravity and earnestness by persons whose anatomical structure is like to that of a foot ball (rhinoceros hide outside and nothing but wind inside). I fear this is a slip—Brother Job will say foot balls are covered with pigskin only. Well, let it go. Here's

hoping Job will some day sell his microscope and buy a telescope.

To return to our sheeps, as the Frenchman says, how about this new flower show heresy so much in vogue of late—this holy scheme to defraud the public and save money for the penurious or impecunious flower show management at the expense of the grower, the man who must at last furnish brains, bone, sinew, and take all the kicks?

Your aforesaid wise gentlemen foregather on a committee, lift the safety valves and liberate a certain amount of hot air, labor strenuously, and finally put out a premium for a dozen or a hundred blooms, perhaps double what the same blooms would bring at wholesale in the open market. Then having done so much for the grower (forgetting or not knowing that he must sacrifice 300 fancy blooms to exhibit 100) they tack on a little clause to the effect that he must replace the blooms and keep his exhibit good until the end of the show.

This new scheme is a plain, rank case of double-barreled fraud. It is a fraud on the public in the first place. The blue ribbon or first premium card is kept on a vase when there is not a flower left in it which was passed on by the judges, a rank confidence game on the public. The exhibitor is compelled to replace and renew the blooms until he has wasted material which if sold would bring him more money than the total of his winnings, a rank fraud on the grower.

And all this is bolstered up and the "L. S. P." misled by remarks on what a shame it is to ask the public to view flowers which are faded and past their prime, and how it is for the exhibitor's own interest not to leave his flowers in the show after they have gone to sleep. O tush! Pish! Pshaw! Who is giving the show? Who is absorbing the gate receipts? Is it not the duty of every live show management to so arrange its premium list that there will be a constant succession, day by day, of new attractions for the public? Isn't it the duty of the management to provide each day new and fresh attractions for the citizen who pays his half dollar at the door? Has the management any right to delude the public into thinking that the vase which has been filled by fresh and (ninety-nine times out of a hundred) inferior flowers is the real Simon pure article which won the prize yesterday?

Let the public know that cut flowers are perishable and that if they wish to see chrysanthemum flowers at their best they must come chrysanthemum day, roses are only at their best on rose day and carnations have also a day of their own, and if they wish to see the whole show they must come every day. Give them new attractions every day to the full worth of their money, but don't play any confidence games. When an exhibit is no longer in shape to be worthy of the show, throw it out and provide enough new classes so it will not be missed. Some of these holy Willies make us tired.

There are a lot of other people that make us tired also. The man has no place on this planet who systematically "knocks" the show, curses the management, and never in his life exhibits, by any chance, even a 4-inch pot plant, and then shows up smiling with a gentle request for a hatful of free tickets because he is a florist. The retailer who stocks up with three times the goods, during flower show week, that he would buy at any other time and expects to sell them all at a fancy price, but can't afford

to exhibit, the grower who marks his prices all up fifty to 100 per cent during flower show week—and sells at those prices, too—but says "You can't expect me to waste flowers on the show when I can sell 'em all at a fat price," these, too, give us a Lydia E. Pinkham feeling.

Well, perhaps we have trespassed enough on the ginger jar man's special province and it may be well to turn to the purely speculative and philosophic consideration of our subject. There has been much discussion in the past as to why flower shows were only in rare instances successful. The fact has been universally admitted and the discussion confined to the whys and wherefores.

The successful showman is born, not made, and the same is true of the florist, whether grower or seller. The manager



POSTER FOR CHICAGO FLOWER SHOW OF 1902.

of a metropolitan opera house would probably be a poor investment at \$40 per month as a rose grower, and the converse would be undoubtedly true of the best rose grower in the country. Isn't the main reason why our flower shows are not successful, that we do not employ expert amusement men to manage them for us? Isn't interpreting the wishes of the public in the entertainment line, and catering to them, a profession in itself, and can we expect the man who has made a life study of the growing of flowers to turn in and compete successfully in the show business with a man who has made a life study of amusing the public?

The Kansas City show, which was reported so phenomenally successful last year, is a case in point. It is a commercial enterprise pure and simple and run on business lines. There is no horticultural society or florists' club back of it and no pretense that it exists except to make money and prestige for the commercial association back of it. If we can find more Taggarts there will be more successful flower shows.

W. N. R.

WHATCOM, WASH.—George Gibbs has already announced his intention of making a large display of Washington-grown bulbs at the St. Louis World's Fair.

The Chicago Flower Show Poster.

The accompanying illustration shows in outline the new Chicago flower show poster, which is lithographed in seven colors. The poster is much smaller than usual, the idea being to give it much wider distribution in store windows. The size of the poster is 14x21½ inches on heavy cardboard.

Why Not, Indeed.

"Why not?" That is the question before the flower show committee just at present. Why not have the greatest show on record in Chicago? It is a little late to make plans for this year, but why not make plans which will give the kind of a show we ought to have every year?

It is of course understood that flower shows seldom make expenses. They call them "shows," but there's nothing "showy" about them. What they need is red fire. Of course fireworks cost money and the Horticultural Society has not the finances to conduct a show as in my judgment it ought to be conducted. But it has plenty of rich men as members and a good guarantee fund back of a man who knows how to cater to society and the amusement public would easily make the show a profit winner.

Two or three times as much money ought to be offered in every department and as high as \$500 for table decorations. It seems that each year everything is expected of the retail man, to show the public at large how cheap he can produce a floral decoration. This is a great mistake, for flowers are a great luxury and ought to be treated as such, at least in the trade. The rich people should be made to open their eyes by seeing what our artists—or "makers-up," as we call them—can do. The cheaper flowers would sell just the same, as the class that buy them do so for the love of the flowers themselves, while the rich generally buy to out-do one another.

Why is the horse show such a great society event, and why is it that our flower show should not equal it? I will try and tell you. First of all, we do not get the right parties interested. Look at the windows of the great State street stores and see in every one some reminder of the horse show, also see how they boom fine clothes for the horse show in their newspaper advertising. I again say why is it? Is it because most of our connections are poor, or nearly so, struggling to make a living? No! No! A thousand times "no!" This is not the reason. We have rich connections. It is simply a fact that our general merchant is not made a party to the show as he ought to be. Our "big bugs" should be interested and such big premiums offered that every grower in the United States would open his eyes and in place of "knocking" he would at once become a "plugger." It not, why not?

Go at it from a purely business standpoint. For the trade it is the best thing one could wish for and there ought to be two shows a year instead of only one. Get the "big bug" to do the hustling and we, in our humble way, will walk or dance to the music that he makes. Make it a flower show, but have fashion rule and then the flower show, like the horse show, will be a success.

E. E. PIESER.

ST. PAUL, MINN.—There is a lively interest in the approaching fall show. All the local florists will exhibit and the pressure for space is great.



CHRYSANTHEMUM Mlle. MARIE LIGER.

Chrysanthemum Marie Liger.

Mlle. Marie Liger, illustrated herewith, is the new French variety which won the prize at the Paris exposition offered by the Chrysanthemum Society of America. It is one of the best varieties of recent years and will rank with Mrs. Robinson, Col. Appleton and Timothy Eaton. The flower is globular, incurved, measuring eighteen inches in circumference, and is perfect in fullness and contour. The plant is dwarf, June planted stock reaching barely three feet in height, and it

requires no support whatever. Plants benched earlier attain a height of four feet. The stems are fully covered with foliage from soil to bloom and every flower is perfected, there being no seconds among them. The flowering season extends from about October 20 onward through the season, according to date of planting. The color of the blooms is pearl pink, deepening to a brighter shade at the base of the petals. Mlle. Marie Liger is as easy of management as Timothy Eaton. The E. G. Hill Co., Richmond, Ind., is exhibiting it this season.

The Woods Holl Rose Suit.

Two suits, of interest to horticulturists and persons interested in floriculture, have recently been settled in the Massachusetts courts, as briefly mentioned in the issue of October 25. They are suits brought by Miss Sarah B. Fay and Michael H. Walsh against the N. Y., N. H. & H. R. R. Company to recover for injury done to their rose gardens at Woods Holl, Massachusetts, by the poisonous gases in the smoke from a fire set by the railroad. On May 13, 1901, the railroad

tore down and set fire to some old buildings on their premises at Woods Holl. Part of the material burned was tarred roofing and the smoke from this fire, containing carbonic acid gas and other gases injurious to plants, was blown over the gardens of Miss Fay and Mr. Walsh, and many of the rose plants killed and others seriously injured.

Suits were brought and the cases referred to Prescott F. Hall, of Boston, as auditor. At the hearings Miss Fay and Mr. Walsh were represented by Robert M. Morse and Henry M. Hutchings, and the railroad by Thomas C. Day. The auditor assessed the damages to Miss Fay at \$5,387 and the damages to Mr. Walsh at \$16,602. Before the cases were to be tried at Barnstable the railroad paid \$20,000 to settle both cases.

Mr. Walsh is recognized as a leading rose grower and hybridist. For over twenty years he had charge of the gardens of the late Joseph S. Fay, at Woods Holl. From 1887 until his death, in 1897, Mr. Fay devoted himself to the raising of roses, and Mr. Walsh had entire charge of the garden. The roses exhibited by Mr. Fay before the Massachusetts Horticultural Society, Newport Horticultural Society, and at other exhibitions, were awarded leading prizes. During this time Mr. Walsh originated many new varieties, receiving medals, special prizes of plate and money and certificates of merit. In 1896 the Massachusetts Horticultural Society awarded his Jubilee rose a gold medal. This is the only gold medal ever awarded for a new rose in this country. Besides the Jubilee rose he originated the Debutante, Sweetheart, J. S. Fay, Aurania, Miss Simplicity, LaFianza and others. For these new roses he was awarded four silver medals, besides certificates of merit and other prizes awarded for new plants of great merit.

After Mr. Fay's death Mr. Walsh actively began business as a grower and dealer in roses, hollyhocks, phloxes and other plants, making a speciality of roses, however. At the time of the fire, in May, 1901, he had about 4,000 rose plants. Besides the new varieties originated by himself, he had over 120 varieties of hardy roses, hybrid perpetuals, hybrid teas and other hardy sorts. It

was owing to this injury that for the past two seasons Mr. Walsh has not been able to make his usual summer exhibits at the Massachusetts Horticultural Society and other rose shows. He is now importing stock plants to replace those which were killed, and it is hoped that another season will find him exhibiting again.

In this connection, as showing the wide reputation which Mr. Walsh has, it may be stated that he had received special invitation to exhibit his roses at the Pan-American Exposition at Buffalo, in June 1901. This he was prevented from doing because of this fire. It will be of great interest to exhibitors of flowers and of plants to know that among the other items of damages awarded him was one "for loss of prize money and of advertising at exhibitions."

This case is of much interest to horticulturists, as it has been said to be the first case of its kind in this country in which the profession of horticulture has been recognized as having a distinct standard of value. The witnesses who testified for the plaintiffs are among the leaders in their special branch of business. They included Dr. Augustus H. Gill, of the chemical department of the Institute of Technology; Dr. George T. Moore, of Washington, who is at the head of the physiological laboratories connected with the Bureau of Plant Industry of the Department of Agriculture; Benjamin M. Watson, of the Bussey Institution; J. K. M. L. Farquhar, of Boston, of the firm of R. & J. Farquhar & Company; Robert Cameron, head gardener of the Botanical Gardens of Harvard University; J. Woodward Manning, the landscape architect, of the firm of Manning Bros.; William H. Elliott, of Brighton, the rose grower; Arthur H. Fewkes, of Newton; Lawrence Cotter, of Boston, now carrying on the Galvin greenhouses; and William N. Craig, head gardener for the Ames estate, at North Easton, Mass.

HENRY M. HUTCHINGS.

COLORADO SPRINGS, COL.—Wm. H. Evans and the Broadmoor Floral Company have consolidated their plants and business, organizing the Colorado Springs Floral Company. They have opened a store at 10½ East Pike's Peak avenue in charge of J. V. Phillips, Jr., of New York.

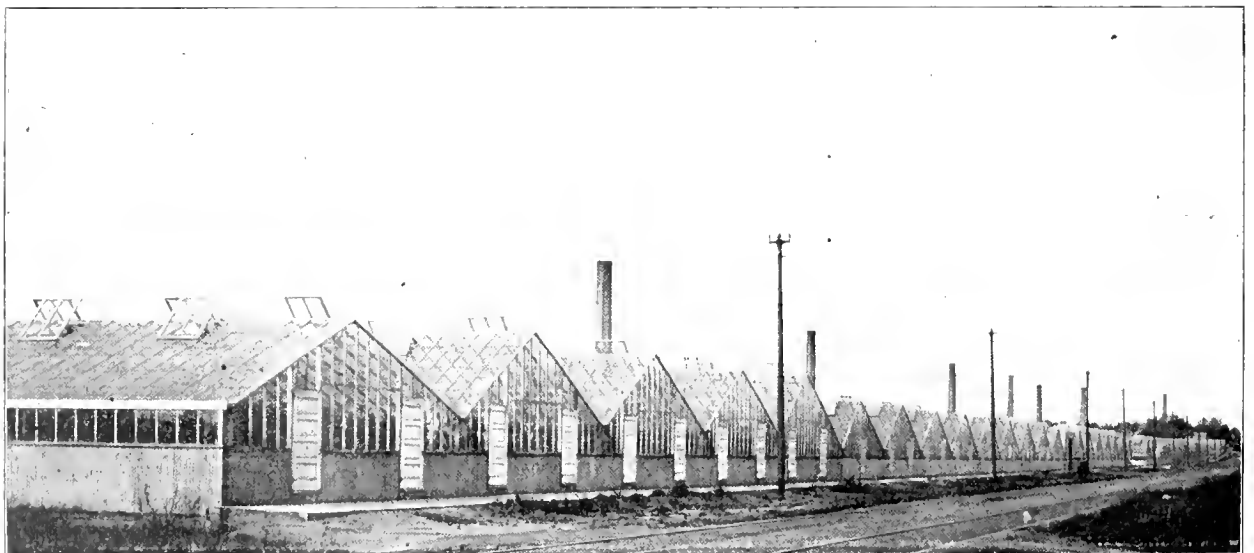
WITH THE GROWERS.

PETER REINBERG, CHICAGO, ILL.

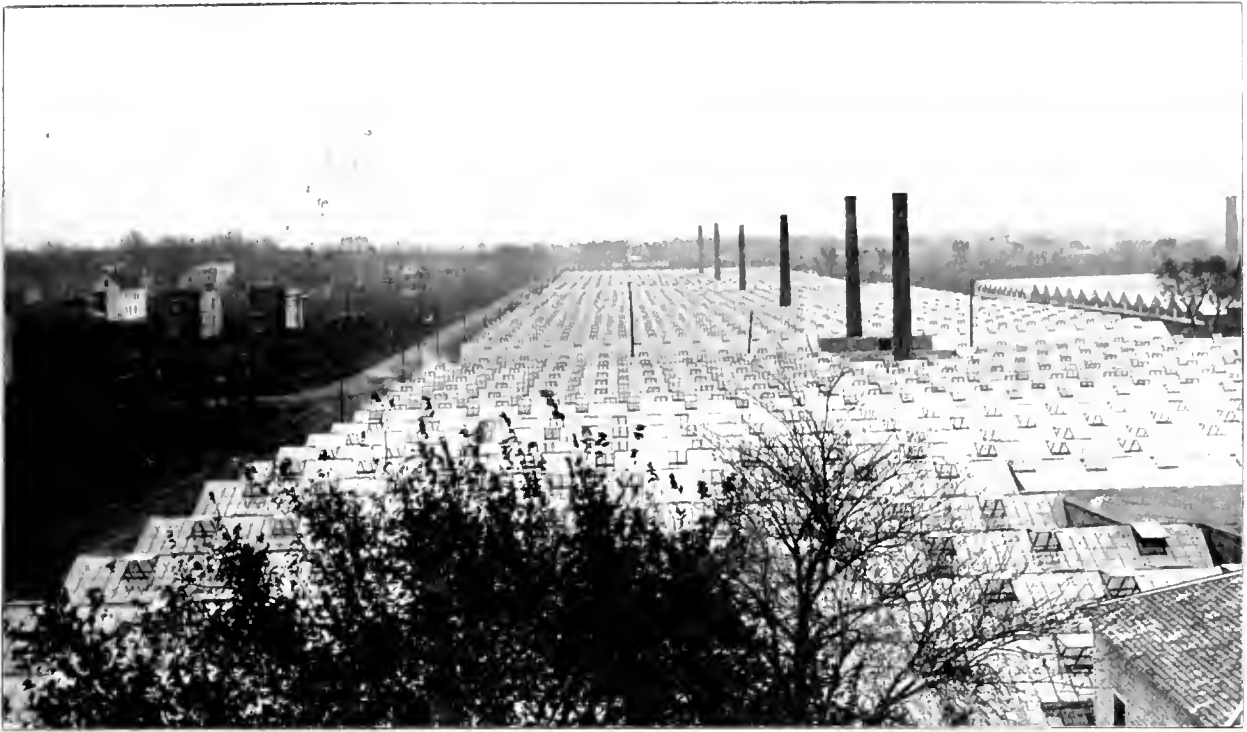
No matter what the season or how frequently one visits the great producing establishment of Peter Reinberg, there is always something of interest for the grower or storekeeper. At present it is the "different" roses which are the principal attraction. Liberty is doing here as well as could be expected of any variety anywhere. Their experience warrants the use of grafted plants, for these make a stronger growth, with better buds and better wood, but the own-root plants give a little heavier cut. Mr. Reinberg had remarkable success with Liberty last year and all the plants were carried over, with some addition in the way of young stock, both grafted and own-root. Thus far the best plants on the place are the oldest ones, a small portion of them being in their third year. The growth is remarkably vigorous and the crop just coming on, with every prospect that the plants will keep going right through the winter, just as they did last year, when Liberty was the best money-maker on the place.

Probably the houses which catch the eye of the visitor most quickly are the three given to the new rose, Sunrise. These plants are very noticeable for the unusual color of the foliage, not unlike autumn leaves, but a moment's inspection serves to show that another characteristic is the strength of the growth. It has been said that Sunrise would be a most valuable rose if sufficient stem could be obtained, and certainly here it is all that could be asked in that respect. Many plants show shoots two feet or more in length. It is a heavy producer and at the wholesale store they say it is among the best sellers, it being seldom that an order goes out which does not include a few Sunrise.

Another section of interest is that in which Mme. Chatenay is grown. This is one of the heaviest producers on the place and the quality of the flowers is first-class, the stems being long and heavy and the foliage good. The buds have to be cut close. This rose also outsells the common sorts but it took some little push to work up a business on all these "new" things. The retailers had to see them for a while before they real-



THE GREENHOUSES OF PETER REINBERG EXTEND FOR FIVE BLOCKS ALONG ROBEY STREET, IN CHICAGO.



A NEW VIEW OF A PART OF THE GREENHOUSE ESTABLISHMENT OF PETER REINBERG, CHICAGO, ILL.

ized the possibilities which lie in varying the monotony of the usual stock in trade. Almost the same thing was true of Golden Gate when they first offered it, three or four years ago, when it was little known, but they made a hit with it and now everyone grows it.

Golden Gate is still planted here in good quantities, for they know how to grow it. They have strong growth on Perle and there are some very fine Kaiserins, which will before long be thrown out to make room for the propagators. Ivory is being tried, but if it makes a large place for itself, it will have to be at the producing end, for at the city store they say that it sells no better than Bride. Next year La France will be added to the list.

In one house there is a collection of new roses which includes a sport of Golden Gate which has quite a little more pink in its make-up than has Golden Gate at its best. One plant showing this tendency was found in the bench the first year Golden Gate was tried, and it has been propagated until now there is quite a stock on hand. There are two European roses, both yellow, of which there are only a few plants. One of them is Souvenir de Pierre Notting, which was disseminated by Souper & Notting last year. It makes a fine, vigorous growth and the flower is of excellent shape. It is expected that they will be able to show fifty blooms of it at the Kansas City exhibition next week and they are counting on giving a house to it next year. A trial is also being made of another European rose, cream white in color, with deeper and pink shadings in the center and at the base of its petals. It, too, is doing well.

Nearly every person in the trade who visits Chicago is acquainted with the house after house of Beauty, Bride and Bridesmaid which are a feature of this establishment. They never looked better than at the present. In past seasons the foreman, George Collins, has insisted on

assuming personal charge of one Beauty section, and certainly his was usually the best on the place, but this year he was induced to relinquish all detail work, undoubtedly to the benefit of the establishment as a whole, for everything is clean and healthy, and one of the most pleasing features, to the proprietor, at least, is the fact that it looks as though the crops would come along in succession on the various houses, giving a good cut from some part of the place at all times.

The north end of the establishment is given over to carnations. The five connected houses north of Mr. Reinberg's residence are all planted to Mrs. Lawson, and the section will be a sight when they get into bloom. These plants were all carefully disbudded when they were benched and they are cutting practically nothing there as yet. Over to the west there are ten houses in a detached range. Two of the largest of these are given to Estelle and the other eight to Mrs. Ine, on which they did remarkably well last year. Morning Glory occupies a great deal of space, but there are also three large houses of Mrs. Higinbotham. Mr. Reinberg planted a larger proportion of white than ever before, and as yet has seen nothing to displace Flora Hill in his estimation, unless it be Peru, of which quite a number are planted and doing finely. Dorothy has been gone into quite extensively and Mr. Reinberg thinks highly of it, both as a producer and a money getter. There is only one bench of Prosperity, and it required considerable persuasion on the part of the boys at the store to get him to give it even that amount of space. It was a good seller last year and the house made a wonderful showing, but the cut was very light in comparison with the number of plants, the development being so slow. Guardian Angel, or the Sport, as it is perhaps more frequently styled, is given a good deal of space.

One of the accompanying illustrations is from a photograph taken last week from

the roof of Mr. Reinberg's home. Although it may give one the idea that he has covered the countryside with glass, it still falls somewhat short of the whole truth, for the five big houses of Mrs. Lawson were at the back of the camera, several greenhouses west of the residence are not seen and the range of ten houses given to Estelle and Mrs. Ine were not in view. The only way to get the whole place into less than three or four pictures is to photograph it from a balloon. The other picture is a view on Robey street looking north from the south end of Mr. Reinberg's range.

CARNATIONS.

FERTILIZERS FOR CARNATIONS.

Page after page might be written on the subject of fertilizers; formula after formula might be given and yet each grower would have to experiment for himself until he found what elements were lacking in his soil to get the best results from his carnations.

Unless we do experiment, and do it continually, we are bound to fall back in our race for improvement. In making these experiments with different brands of what are known as chemical fertilizers, or with formulas of our own mixing, it is always well to go slow until we are sure of our results, and it is well even then not to risk our entire place to our newly found fertilizer until it has been tried and proven for a year, or better yet, for two years, and even then we can continue to experiment and try to improve on what we have already done.

For experimental purposes five or six rows, selected in that part of the bench or bed where those on each side of them are uniform in variety and growth, answers the purpose well enough and reduces the loss to a minimum if they prove a failure. In applying the formulas to these five or six rows it is well to begin right now and apply the same

formula all the season through, then note the results obtained every two weeks. This enables one to tell whether his formula is an all-season one or whether it needs to be varied as the season progresses. Do not undertake too many of these experimental plots for one season, as one is more likely to find what he is looking for by having but three or four of these experimental plots properly attended to, and the material used intelligently put together, than if he has a dozen or more plots to watch at once.

After having discovered the successful fertilizer, do not imagine that you can take "any old soil" from around the place, barren or otherwise, and get results by the use of the mixture. If you do you are almost certain to be disappointed. Use plenty of good manure in your soil and add chemicals only as an auxiliary. Scientists show us very plainly by analysis that the average stable manure is woefully lacking in fertilizing elements in proportion to its selling value. They also teach us that it contains, when properly cared for, millions of minute organisms that release and thus make available for plant food not only the nitrogen in the manure but what is contained in the soil as well, and these more than counterbalance the lack of real fertilizing elements. We may not all agree with these different analyses and these results; in fact, the men who make them very seldom agree among themselves, but all of us florists must agree to the fact that unless our soil contains a liberal proportion of stable manure we will not get the best results, no matter what we may add in the shape of special fertilizers.

Our soil must be in what we call a certain mechanical condition, so that the roots can develop properly and take up any chemical fertilizer that we may apply. If the soil is not in this condition, then the first aim should be to work into it enough rotted or ground manure to put it into proper shape. This can be done now; in fact it should be done at once, as even now there will be some injury done to the roots of the carnation by working this manure into the soil between the rows to the depth of two or more inches, as will have to be done in order to get it into the shape you will want it, but this injury to the roots will be overbalanced by the benefit to the soil. In fact, this injuring of the roots is not my own idea but that of the majority of the growers and I would hardly want to profess to know more than men who grow better carnations than I do. My own idea is that, as we are constantly cutting the flowers and cuttings from the plants, the breaking of a few rootlets by loosening the soil is rather an advantage than otherwise and especially so when it is done by a complete hooking up of the soil between the rows.

For general and sure results there is nothing equal to good well rotted cow, hog or sheep manure, a pure brand of bone meal, wood ashes and lime. These used with intelligence are sure to be satisfactory and there is little danger of one loosing his crop through a misapplication, as is often the case with more concentrated manures. First see that the soil has sufficient fertilizer in its make up, and as soon as you notice the plants are wanting a little more stimulation add a fairly liberal supply of wood ashes, or air-slaked lime. If the ashes are used first follow them up in about two weeks with the lime. There are very few soils that will not be benefited by the application of a light coat of air-slaked



AUTOMOBILE DECORATED FOR FLORAL PARADE, BY J. LOUIS LOOSE, WASHINGTON.

lime once every two months during the growing season. Where you have something in the way of a special fertilizer these remarks do not apply, as you will no doubt get better results from it. Do not apply anything unless the plants really need it, as there is more danger of over-feeding than there is of under-feeding; the over-feeding may give you large flowers but they are likely to be on weak stems and very poor from the point of view of keeping quality.

In judging the needs of the plants there are no set rules to follow and the only guide is the grower's own good judgment. As an illustration I might cite my own experience this season. I have a variety growing in quantity that I have been growing the past three years under exactly similar rules, with the very best of results. One of the rules was that it should have no extra feeding before the latter part of February or early in March, as experiments had shown me that it was a positive injury to the plants to feed them before the bright spring days came along. This season, in soil prepared exactly the same as last season and with plants as near like those of last season as it is possible to have them, I am compelled to feed it at this time or have a partial failure, whereas with feeding it is going to be even more of a success than it was last year, unless I have made a very wrong reading of its needs. I have other varieties that were fed in November last year that would be injured by anything at this time this sea-

son; in fact, most varieties are better without any extra fertilizing until the regular night firing begins, and with many growers that will be as late as possible on account of the cost of coal.

ALBERT M. HERR.

Pennsylvania Horticultural Society.

The meeting of the Pennsylvania Horticultural Society October 21 was well attended. The display of chrysanthemums for the Bodine prizes, consisting of twelve vases of six blooms each, was a curtain raiser for the coming chrysanthemum show in November. Some fine vases were shown, including mid-season varieties. Wm. Morton, gardener to Mrs. Craige-Lippincott, won first with Col. Appleton; Wm. Kleinheinz, gardener to P. A. B. Widener, second, with Mrs. Hurley. Other varieties seen were Glory of Pacific, Robert Halliday, Omega and Garden Queen.

The display of cosmos for the Michell prizes brought out twenty-one entries. A great many of them being of equal merit in quality and arrangement, it became a difficult matter to select the winners, and as naturally ensues some disappointment is felt in the work of the judges. The winners were W. H. Carey and Thomas Holland.

The Dreer prize for display of hardy perennials was won by Francis Canning, with some thirty vases, and illustrated the variety of decorative material to be found in the October garden. Aster

Tataricus, Anemone Japonica, tritomas, heleniums, chrysanthemums and the various grasses, vases of Hydrangea paniculata, Bocconia cordata with their autumn tints all helped to make a creditable showing. A similar exhibit by Dreer was commented upon by the judges as being instructive and was also appreciated by all gardeners present.

Prot. Stewardson Brown spoke of the recent hybridization congress in New York and of the possible ultimate result. He also favorably commented upon the papers read by C. W. Ward and E. G. Hill. The date for the spring show was announced to be March 24 to 26. John McCleary presided. F. C.

ROSES.

NOT A NEW ROSE.

ED. AM. FLORIST:—I send you to-day by American express, a box containing some blooms of a rose that a party is trying to palm off as something new. It has been on exhibition here and the different growers who have seen it, claim it is nothing more than the old Duchess of Albany. Will you please show it to some of the leading rose growers and get their opinions about it. CINCINNATI.

The box of cut roses came to hand to-day and though somewhat faded and dried up, the fragrance, shape of bud and color of flowers, form of foliage, etc., are all identical with the variety sent out some years ago under the name of Duchess of Albany, which was a sport from La France. I have shown the flowers to several growers who were quite familiar with the Duchess of Albany, without giving them any information whatever about these identical flowers, but simply asked them to say what they considered the variety to be, and each one immediately called it Duchess of Albany; this I did to confirm my own opinion. Undoubtedly the party referred to is mistaken as to its being a new variety. This might easily occur with any one not familiar with the variety in question, hence great care should be exercised before putting anything of the sort on the market that is not absolutely distinct from varieties previously introduced. JOHN N. MAY.

ABOUT THRIPS.

How to rid rose and other plant houses of thrips is a question one often hears propounded. Where the plants are not in bloom a good fumigation with tobacco stems every evening for a week will kill all these pests that may be developed at the time, but that does not imply that others may not come again later; hence it may be necessary to repeat the dose again three or four times during the season.

But where plants are in bloom the above method will undoubtedly destroy nearly all the crop then in sight, which in many cases would mean a serious loss. In such cases Persian insect powder of a good fresh quality should be substituted for the tobacco stems. One of the best means I have found for fumigating with this is to get several pieces of heavy iron about six or eight inches in diameter each way, place them in a good, live fire and let them get red hot. Then with a pair of tongs carry the first piece to the farthest end of the house, lay it on a couple of dry bricks, place about an ounce of the powder on the iron and retreat as quickly as possible. In the meantime have an assistant bring the

next iron in and place it twenty-five or thirty feet from the first, applying the powder, and so on until the house is filled, first of course closing all ventilators as closely as possible. Let the house remain closed tightly for several hours after the operation and if one dose has not killed all the pests, repeat it the next evening.

This method does not injure the flowers as badly as does the tobacco, but is a little more troublesome to apply. In doing it the irons must be heavy enough to retain the heat for some time or the powder will not all burn and the effect will be lacking. JOHN N. MAY.

Chicago.

MARKET RECOVERS FROM SAD STATE OF DEMORALIZATION.—COOL WEATHER AND BRISK SHIPPING DEMAND GIVE HEALTHY TONE.—ADEQUATE SUPPLIES STILL AT HAND.—CROPS RETARDED MUCH TO GROWERS BENEFIT.—FLOWER SHOW MATTERS PROGRESSING.—NO PREMIUMS FOR RETAILERS.—VARIOUS TRADE NOTES.—VISITORS.

Last week wound up with the market worse demoralized than it has been in many a day. Under the influence of summer skies receipts were doubled and trebled in all lines, with the absence of demand from out of town indicating that a similar condition prevailed throughout much of the territory tributary to this market. As a matter of fact there were many instances where buyers turned consignors and the market was gorged to repletion. Average returns to growers were probably never lower for the third week in October. But Monday found matters somewhat improved by cool weather, which has conserved the crops all week and put the market in a much more healthy condition. The crop is right in its height with many growers and was practically going to waste, but the change in temperature served to hold back the flood and, if the cold had continued, would put many a dollar in producers' pockets. By Wednesday there was big business in shipping, most of it going to New Orleans for All Saints' day. Practically every house in town had a share of this trade, with the exception of those which had their fill in previous years, for one or two of the leading concerns say that when one has made good on the "kicks" regularly coming out of thousand-mile shipments there is nothing left in New Orleans business. One of the leading commission houses which formerly did a large trade there, a couple of years ago went so far as to close all its New Orleans accounts and has not since sent a price list to that city. Their books showed that the losses ate too big a hole into the fifteen per cent. They still do some business with the Crescent city, with the express understanding that goods go out in good order and at buyer's risk, otherwise no shipment. Although New Orleans had larger home-grown supplies than usual this year, the total bought in this market probably came close to the best of past records, although fewer chrysanthemums were called for than had been expected in view of the reasonable prices at which large lots were offered. On the shipping days the market was well cleaned out on all roses of quality to stand a long journey, but low grade stock is not yet escaping the fate of a home with the Greeks, the street salesmen being also the largest buyers of chrysanthemums this season, a fact which many deplore. The white

carnation has resumed the lead; others hang fire. There are plenty of choice violets; the horse show made a big sale for them Monday, but since then the demand has been intermittent.

The prospects are that the offer of the chrysanthemum society to pay express on plants from a distance will bring some good specimens from the gardeners who have annually shown such remarkable plants in the east. Mr. Kanst is in correspondence with several interested parties. New roses will be in evidence, Souvenir de Pierre Notting and Alice Roosevelt. Fifty blooms of Ivory will get \$100, \$50 and \$25 in three prizes. There are prospects of good competition for violets, for all the growers have good stock at present. Kennicott Brothers offer \$25 for first and the society \$15 for second for exhibits of twelve bunches of fifty each and twenty-four bunches of twenty-five each. C. D. Peacock offers a silver cup for the best vase of chrysanthemums in the show. The medals include that of the French society and the two each of the American Rose Society and the S. A. F. There are no premiums in the schedule for retail florists. This state of affairs is causing considerable comment.

The assets of Walter Retzer, in bankruptcy, are to be sold at auction at 10 a. m. next Wednesday at the greenhouses. The stock of plants is to be put up in small lots to afford every buyer a chance.

On October 24 Albert Fuehs was assaulted and robbed of his watch as he was looking into a down-town show window. One of his assailants struck him in the face, cutting him quite badly.

The Ernst Wienhoeber Company is sending its patrons a neat memorandum booklet, with notes on "flower seasons," which will be preserved as much for its artistic merit as for its utility.

Weiland & Risch have a nice lot of plants of the new rose, Souvenir de Pierre Notting, from which much is expected later.

C. M. Johnson has closed out his place at 9601 Logan avenue and will rebuild at Donnellson, Ill.

J. A. Budlong has been in Indiana on a bicycle tour, going as far as Indianapolis.

Flora Hill carnations are unusually fine at Budlong's greenhouses just now.

Edgar Sanders is progressing as favorably as can be expected.

Andrew Miller is again on duty with John Mangel.

F. F. Bentley is working on jury this week.

Visitors: E. N. Burt and A. J. Santschi, Goshen, Ind.; J. A. Evans, Richmond, Ind.; J. F. Wilcox, Council Bluffs, Ia.; Geo. L. Stiles, Oklahoma City, Okla.; Ernst Asmus, West Hoboken, N. J.; A. Dimmock, New York; F. K. Sander, St. Albans, Eng.; A. T. Hey, Springfield, Ill.; S. A. Walcott, Batavia, Ill.; Mrs. Connon, St. Louis.

Philadelphia.

MARKET EXPERIENCES A RADICAL REVERSAL OF FORM.—FROM FAMINE TO FEAST.—ALL ABOUT THE TOP-NOTCH PRICES.—A BIG YELLOW CHRYSANTHEMUM.—MANY ENTRIES FOR FLOWER SHOW.—VARIOUS NOTES.

Quite a change has come over the state of affairs. Two weeks ago it was hard work to get flowers to fill orders, now it is difficult to find room to put the flowers that are forced on the market. Stock is accumulating in every line, but is most pronounced in chrysanthemums, which

are piling up very fast. Stock of a quality that would have brought \$3 two weeks ago is now going begging at \$1.50 per dozen. Among the varieties noticed are Maud Dean, Pink Ivory, Robinson, Col. Appleton, Robert Halliday, Ivory, Florence Harris and a lot of strangers that are not familiar and probably never will be. Prices range from 75 cents to \$3 per dozen. Speaking of chrysanthemums, I must mention the great new yellow that Robert Craig & Son have in Yellow Eaton. It certainly will be one of the winners this season. A large house of this variety is just bursting into bloom and looks very promising. Carnations are coming in much too fast and are being sold on the streets as low as 10 cents per bunch of twenty-five flowers, and stock not over one day old. Not much comfort in this for the grower. Fresh stock prices range from \$1 to \$2 per hundred. Double violets are fine, almost up to their best winter form; 50 cents to 75 cents, with a few double extras bringing \$1, is the price. Roses are also plentiful; prices for the teas are \$4 to \$6; and a few extras have sold as high as \$8 per hundred. The quality keeps on improving. Beauties are moving fairly well at from \$1 to \$3.50 per dozen.

Secretary David Rust is laying plans to enlarge the facilities of Horticultural Hall, as the prospects are that there will not be room for all proposed exhibits for the approaching show. The entries are coming in very fast and it is very evident that the show will be far ahead of any of its predecessors. It is a pity that a committee could not go out to the greenhouses of the exhibitors, particularly of chrysanthemum plants, and pass upon their eligibility. Such action would certainly raise the standard of the exhibitions and save some growers a lot of trouble.

"Turnbull & Crawford, importers and manufacturers of florists' ribbons and novelties" is the sign at 273 South Eleventh street, where John Q. A. Turnbull, late with M. Rice & Company, and Wm. W. Crawford, son of Robert Crawford, Jr., are to carry on the above mentioned business.

C. H. Grigg, late of the Century Flower Shop, has opened a flower store on Eleventh street above Walnut under the name of The Colonial. K.

Pittsburg.

STOCK OF HIGH QUALITY BUT TRADE ONLY FAIR.—COOL WEATHER AT HAND.—CLUB TO MEET.—DOINGS OF GROWERS AND OTHERS.

Stock is each day gaining in quality and now that snow has fallen we are sure that good business will follow, but buyers are apathetic as yet. Chrysanthemums are coming, selling with surprising rapidity, and dominate the market at present. The demand for double violets is increasing daily, but singles have no friends. Long and short Beauties are meeting with fair sale. The quality is fine. Tea roses are also much improved, carnations splendid and cactylas are meeting with liberal sale. Lily of the valley is fine and Sprengerii plentiful.

Loew & Roehrig are now negotiating for the purchase of green goods. They have encountered difficulty in securing a suitable building in a central location.

The Pittsburg Florists' and Gardeners' Club will hold its next meeting on November 12. Chrysanthemums will be the subject discussed and exhibited.

The Wheeling Greenhouse Company is reported to be planning the extension of

their plant. Their cut flower business has had large development.

The will of the late Jacob Beckert leaves his estate to his wife. He also directed that his body be cremated, which was done.

Charley Crall was unable to open his Monongahela City store on time, but will be open in a few days.

Lloyd Swarthout, of Washington, Pa., is sending fine chrysanthemums to this market.

Mr. Fotheringham of Pierson's, of Tarrytown, N. Y., is a visitor.

W. P. Minneley has opened a store at 5820 Penn avenue. E. L. M.

Boston.

MARKET BREAKS BADLY.—SLUMP COMES SUDDENLY.—UNWIELDY SUPPLIES AT HAND.—HOPE THREE WEEKS DISTANT.—MARKET MEN HOLD REUNION.—BANQUET AND BUSINESS.—ORATORY AS AN AID TO DIGESTION OF BOTH.—VISITORS AND OTHER NOTES.

Had it been practicable to write last week's report of flower market conditions here twenty-four hours later than it was written, its tone would have been widely different from what it was. Seldom do we experience a more thorough collapse within so short a time than was experienced last week. Between Tuesday and Wednesday the market went to pieces completely, not a single item on the list escaping, and varieties which were eagerly sought by buyers at excellent prices for the season, on Monday, could not on Wednesday be moved beyond the wholesalers' storage boxes. And these are the conditions that have prevailed ever since. Reports as published from other centers indicate, however, that this market held out the longest, and for this discrimination in our favor we should be deeply grateful. No doubt the usual stagnation of the chrysanthemum season will now be experienced and we might as well date our hopes ahead to Thanksgiving time.

The annual meeting of the stockholders of the Co-operative Flower Growers' Association was held at Young's Hotel on Saturday evening, October 25. The old board of officers, under whose efficient management the corporation has been so prosperous, was re-elected for another year, with the exception that Alex. Montgomery was chosen to fill the vacancy on the directors' board caused by the resignation of Peter Fisher. The crowded condition of the present market and the difficult question of more commodious but equally accessible quarters was the chief topic of discussion and it transpired from an informal expression of opinion that the stockholders are content to leave the selection of a new place and other problems involved therewith to the judgment of the directors, who have already devoted considerable time and thought to its solution.

Previous to the formal business meeting the annual banquet was served, about fifty gentlemen participating, among whom were the representatives of the trade press, who were present as invited guests. After the inner man had been appeased, President W. C. Stieckel, who occupied the chair, gave expression to a few words of welcome and then called upon Wm. J. Stewart, who, as the senior member of the press delegation, extended congratulations. Alex. Montgomery also responded briefly, as did "Bill" Anderson, who was very sorry to have been accused of selling roses to best advantage. Capt. Pierce contrib-

uted a dramatic recitation and W. H. Elliott enlarged upon the adaptability of the wilds of New Hampshire for rose growing. F. J. Norton extended kind compliments and F. R. Mathison recounted the rapid strides made by the flower business and expressed optimistic views regarding its future. J. S. Mantereinced due appreciation of the courtesies extended. Altogether it was a very enjoyable little reunion.

Visitors: H. F. Litterfield, Worcester; Ed. Fancourt, Philadelphia; H. S. DeForest, New York.

Tewksbury, Mass.

NOTES OF CONDITIONS WITH THE GROWERS.—ALL ESTABLISHMENTS IN GOOD SHAPE.—CARNATIONS THE SPECIALTIES.—JOTTINGS OF VARYING INTEREST.

Tewksbury is a great carnation center and one would have to travel a long way to find the equal of the blooms turned out here, nothing but the best varieties being grown. At the well kept establishment of Patten & Company the large range of houses is all planted to carnations. Considering the dull weather we have had of late the plants are in excellent condition; one of the 250-foot houses planted to Lawson is simply a sea of buds. With a few days of sunshine they will have a tremendous crop. Mr. Patten has a batch of Cressbrook and another of Fairmaid but at present he is not favorably impressed by them. Cressbrook does not seem to do in Tewksbury all that it does in some other localities. Here one may see all the leading varieties, Lawson, Roosevelt, Harry Fenn, J. H. Manley, Bradt, Dorothy Whitney, Estelle, Gaiety, G. H. Crane, Morning Glory, Prosperity, Boston Market, Gov. Wolcott and Lorna. They have a new variegated seedling, not on the market, named Mrs. M. A. Patten which promises to be in the first class. A large part of the cut here is handled by Thomas Galvin in Boston. During the past summer they made extensive alterations, changing over several of the old houses, making them a bench wider. At the end of the Sprengerii house, or rather inside of it, they built a cosy office 15x24, equipped with all the modern conveniences. They have a house full of coal and more standing on a spur track nearby.

A. C. Tingley has been badly handicapped this fall, being afflicted with rheumatism, which kept him indoors for a good many weeks. A new fifty horsepower boiler has been installed. The houses are all filled and the plants look very promising. His chrysanthemums are particularly fine this year, Glory of Pacific being especially good. Ivory has been planted extensively. Two houses planted to violets, single and double, look as if they ought to give a good account of themselves the coming winter.

At A. Roper's they have been busy with steam fitting. Nothing but carnations of his own creation are seen here. Here you can see Fairmaid in all its glory, for no one can grow it better than the originator. Mr. Roper has an unnamed red seedling that he has been growing for two years, and which promises to be good. The blooms are about the size of Crane but are softer in color. It is very prolific.

Lewis Small's place is back in the woods, away from town, and there are only five houses but what quantities of superb blooms he does send to the Boston market. His stock is all looking tip top. A. M.

St. Louis.

MARKET RECOVERS SLIGHTLY FROM ITS STAGNATION.—STOCK STILL GOING TO WASTE.—NOTES OF VARIOUS DOINGS OF THE GROWERS.

The market was very dull last week but the first part of this week things moved along. Chrysanthemums are coming in quite lively, but sales are at the cost of leaving roses on hand. Some very fine roses and carnations are being sent in and the latter are selling better than the former. Violets are showing a big improvement in size and length of stem but a large number go to waste. Some very fine cosmos are received but there is not much sale for it.

The Michel Plant and Bulb Company has things in general looking fine, especially the chrysanthemums. Their Timothy Eaton are the best that I have seen in this city; the foliage is very large and healthy and the stems strong. Some very fine pot plants of Mme. Bergmann were also to be seen. One house is devoted to roses that are used for stock but some very fine flowers are being cut from them at present. They have a very fine collection of geraniums here, as I mentioned in the spring, but out of 155 varieties only fifty-five have been retained as being the best suited for this climate.

E. A. Michel has moved out to Windsor Spring, near Kirkwood, with his family. He will keep in touch with the greenhouses at the springs and at Old Orchard and Eugene Michel will have full charge of the greenhouses at Flower Grove and Magnolia avenue. Mr. Michel has just returned from Kansas City, where he attended the Grand Lodge meeting of the Masons.

The Michel Plant and Bulb Company on October 25 filed with the recorder of deeds a certificate of increase of capital from \$10,000 to \$25,000. Assets are given as \$21,691.50 and liabilities \$11,691.50. Sixty per cent of the increase is paid. R. J. M.

Denver.

BUSINESS RUNS ALONG SMOOTHLY.—CHRYSANTHEMUMS MAKE OTHER STOCK APPEAR PLENTIFUL.—VALUES STILL HOLD.—GOOD DECORATIONS.—PERSONAL AND OTHER NOTES.

There is nothing startling in the flower line, although trade runs smoothly along, with an occasional spurt due to funeral work. Large decorations are scarce and the gay season has hardly opened yet. The Park Floral Company handled quite a fine job last week Wednesday, in which the decorations called for a good use of flowers, white chrysanthemums and valley predominating. The chrysanthemums have started in and a good variety may be had now. Robinson is best at present, but will soon give way to Timothy Eaton. Col. Appleton is showing up in small numbers, but the big cut will be in the latter part of the week. Owing to the big lot of chrysanthemums now on the market other stock is rather plentiful, but so far former prices have been maintained. Violets meet with good sale and are choice. Carnations are coming in good lots, with the best selling clean, the waste coming on the smaller varieties. Roses are beginning to show the effects of the heat, for it is more like summer than fall. A few good cold days would undoubtedly help business as well as stock. Pot chrysanthemums are plentiful and the sale on them is slow.

Frank Wolfe, with the Colfax Avenue

Floral Company, has gone to Pittsburg, his former home, for a visit after an absence of several years.

J. A. Valentine, of the Park Floral Company, will attend the Kansas City flower show. B.

St. Paul.

BUSINESS ON THE IMPROVE AND STOCK GIVES SATISFACTION.—ALL ABOUT THE SUPPLY AND PRICES.—CARNATIONS GAINING IN POPULARITY.—FLOWER SHOW AN ASSURED SUCCESS.—VARIOUS NOTES.

Since my last report trade has received a very gratifying impetus. Stock has greatly improved in quantity as well as in quality and fall business promises to be the best in many years. The social season, which somehow always waits for the chrysanthemum season, has commenced with renewed activity and florists are consequently busy. Shipping trade is fairly active, though there is an apparent dropping off in funeral work, both in city and country. In roses Beauties are still the leader, the local supply not meeting the demand. Retail prices range from \$3 to \$8 per dozen, at wholesale from \$8 to \$30 per hundred. Choice Liberty roses are in good demand, retailing at from \$2 to \$3 per dozen, but so few are choice that not many are sold at that figure. Meteors, Bridesmaids, Brides and Golden Gates are also in good demand at \$5 per hundred wholesale, \$1.50 per dozen at retail. Carnations are pushing roses hard for first place, good fancy stock being eagerly sought after and selling at nearly as high prices. Enchantress has created a most favorable impression. Gov. Wolcott, a large, bold, pure white blossom, is also attracting considerable attention. Prosperity is popular also and commands the highest market price. Some recent blooms of this variety grown in a semi-shaded situation were heavily marked with red. Violets are coming in slowly, are of fair quality and sell quite readily. Princess of Wales sells in preference to the double sorts when fresh. As a shipper, however, we hardly think it suitable. Chrysanthemums are coming along very rapidly now. Yellow Monarch, Robinson and Rose Owen are the best sorts at this writing.

At a meeting of the floral committee of the flower show directors, held in the Armory building, florists were present from Minneapolis and St. Paul, and spaces were assigned to Mendenhall, the Minneapolis Floral Company, and E. Nagel, of Minneapolis, and the Wind-miller Company of Mankato; also Aug. S. Swanson, L. L. May, E. F. Lemke, Vogt Brothers, Holm & Olson, Christ. Bussjaeger, Dr. R. Schiffmann and Como Park, of St. Paul. Judges were selected as follows: Frank Berry, of Stillwater, and two ladies, one from Minneapolis and one from St. Paul, on cut flowers. O. A. Nordquist, Oakland Cemetery, St. Paul; T. Hall, of the Lakewood Greenhouses, Minneapolis, and Prof. G. S. Greene, of the horticultural department of the state agricultural school, on plants.

While everybody breathes easier over the apparent end of the coal strike, the local situation remains unchanged. The best steam coal is no longer being sold, the second best selling at \$5.65 per ton in car lots.

Holm & Olson have their new range of houses completed and are rapidly filling it up with choice stock for the holiday and winter trade.

FELIX.

San Francisco.

CHRYSANTHEMUMS PLENTIFUL AND OF GOOD QUALITY.—PRICES WELL BELOW THOSE OF PREVIOUS YEARS.—CLUB TO HAVE AN INFORMAL SHOW.—A UNION.

The chrysanthemum season is now fully on and, taking everything into consideration, they can be bought and have been bought for a good deal lower figure than in any other year. No such fancy price as \$4 per dozen has been asked since the first chrysanthemums arrived, even with quality as good and better than last year. Good indoor blooms can be had for from 50 cents up to \$1.50 and outdoor stock for almost any price. Of course carnations and roses are suffering considerably and moving very slowly. The rainy season has set in now, with a good two-days' rain accompanied by lightning, thunder and hail, something almost unheard of in this part of the country. The Chinamen are the only losers from the hail, as they have all the chrysanthemums growing outside. What is good for one is bad for the other. The violet grower is all smiles since the cooler and wet weather has started and a considerable improvement in quantity and quality can be noted already.

The Pacific Coast Horticultural Society will hold its first chrysanthemum show in its hall on Mission street November 1. Several small cash prizes are offered. It gives promise of a good attendance as these complimentary shows have been quite a success and growers and storekeepers are getting better acquainted with one another through them.

The employees in the retail stores have formed a union for their betterment, with Messrs. Cappelman and J. Buean as the leading spirits. GOLDEN GATE.

Lowell, Mass.

CHRYSANTHEMUMS OCCUPY THE CENTER OF THE STAGE.—GOOD STOCK COMING IN EARLIER THAN USUAL.—STAPLE VALUES HURT.—VARIOUS NOTES.

The weather conditions are such that the growers have been producing stock of all kinds in excellent shape. The first killing frost of the season visited us on October 22 and laid low everything outdoors. Chrysanthemums are now seen on every side. Some of the varieties that are seen are about a week earlier than last year. Just now there is a tremendous supply of yellow and white, with a noticeable shortage of pink, but this will be remedied in a few days, when Pink Ivory will be ready. Viviani-Morel is in but they do not have good color. Ivory and Robinson are holding their own for whites, the blooms of Robinson this year being the best seen for a long time. Bonaffon is gradually coming to the front again for first-class blooms of yellow, making its appearance early last week. The growers of red chrysanthemums are holding them for the Harvard-Yale football game. With so many chrysanthemums coming in the carnations have suffered greatly in price, good flowers being sold for \$1 per hundred. Bursted calyxes are very noticeable, on Lawson especially.

Many a silent prayer of thanksgiving was offered by the small growers here when it was learned that the coal strike was ended. One grower in Chelmsford was preparing to close up for the winter, but with promises of coal he has taken on new courage.

M. A. Patten, of Tewksbury, will be at the Madison Square Garden show with some of his carnations.

A. M.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines *only*.

Orders for less than one-half inch space not accepted.
Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

THE azalea shortages this year are
again greatest in such varieties as Van
der Cruyssen, Simon Mardner and Ver-
vænana.

THE railroads have made a rate of one
fare for the round trip for the Kansas
City flower show, applying within a
radius of 200 miles.

THE annual convention of the Chrysan-
themum Society of America will be held
at Chicago, November 11 to 15. All
should arrange to attend on this impor-
tant occasion.

THE mailing label on your paper shows
when your subscription expires; when
you send your renewal note that the
date changes within two weeks; it will
serve as your receipt.

WE are in receipt of Bulletin No. 97 of
the Pennsylvania Department of Agri-
culture, which is an eminently practical
treatise by Edwin Lonsdale on the man-
agement of greenhouses.

THIS is the season at which the florist
in the small city should take advantage
of the popular interest in the chrysanthe-
mum to attract a large number of visi-
tors to his greenhouses. A brief announce-
ment of a flower show, published in the
local paper, will do it.

THE advertisement will bring the cus-
tomer to the store, but the salesman has
a very important part to perform, says
Printers' Ink. He should see to it that
the customer gets just what he comes for,
and that the courtesy of his treatment
will prompt him to call again.

LAST year decorative plants packed in
cases were frozen in transit November 1,
the earliest date for many years. For
safety give plant shipping cases a double
lining of paper after this date and, in
addition, ship by express. If the plants
are shipped by freight, use refrigerator
cars.

Too Good to be Without.

ED. AM. FLORIST:—I think the AMERICAN
FLORIST too good a trade paper for any
florist to be without.
Springfield, Ill. BELLE MILLER.

Society of American Florists.

DEPARTMENT OF PLANT REGISTRATION.

Leonard J. Stankowicz, Niles, Cook
county, Ill., registers new carnation Mrs.
Phoebe Hearst, a cross between Lizzie Mc-
Gowan and Argyle; white, fragrant;
flower very large and partaking some-
what of the form of McGowan.

WM. J. STEWART, Sec'y.

Chrysanthemum Society of America.

The seedling committees of the C. S. A.
meet each Saturday until the end of
November, as follows:

Boston, Mass.—E. A. Wood, chairman,
care of Boston Flower Market, Park
street; James Wheeler, William Nichol-
son.

New York, N. Y.—Eugene Dailledouze,
chairman, care of New York Cut Flower
Company, Twenty-sixth street and Sixth
avenue; James W. Withers, William H.
Duckham.

Philadelphia, Pa.—A. B. Cartledge,
chairman, 1514 Chestnut street; William
K. Harris, John Westcott.

Chicago, Ill.—James S. Wilson, chair-
man, care of J. B. Deamud, 51 Wabash
avenue; George Stollery, E. Wienhoeber.

Cincinnati, O.—Albert Sunderbruch,
chairman, care of Cincinnati Cut Flower
Company, 437 Main street; James B.
Allan, E. G. Gillett.

Exhibits to receive attention from the
committees must in all cases be prepaid
to destination, and the entry fee of \$2
should be forwarded to the secretary not
later than Tuesday of the week preceding
examination.

Anyone having a variety in season
after dates fixed, can have the same
passed upon by specially notifying the
the chairmen of committees.

Following are the reports of the com-
mittees judging seedlings and sports:

New York, October 25.—The E. G. Hill
Company, Richmond, Ind., exhibited
Mlle. Marie Liger, an imported French
variety, light pink, Japanese incurved,
scoring 93 points commercial scale. John
N. May, Summit, N. J., had on exhibition
No. 15 M., pink, incurved Japanese on
terminal bud, which scored 74 points
commercial scale. No. 11 H., bright
clear yellow, Japanese incurved, scored
95 points commercial scale, also exhib-
ited by John N. May.

Philadelphia, October 18.—Wm. Paul
Binder, Rider, Md., exhibited No. 14,
white, incurved Japanese, which scored
84 points commercial scale. October 25.
—Ernest Schreiber, gardener to Wm. L.
Elkins, Ashbourne, Pa., exhibited Miss
Stella T. Elkins, dark red, reflexed Japane-
se, scoring 85 points commercial scale,
86 points exhibition scale. Mlle. Marie
Liger, exhibited by the E. G. Hill Com-
pany, scored 90 points commercial and
exhibition scales. No. 15 M., exhibited
by John N. May, scored 86 points com-
mercial scale. No. 11 H., by same exhib-
itor, scored 85 points commercial and
exhibition scales.

Cincinnati, October 25.—Mlle. Marie
Liger, exhibited by the E. G. Hill Com-
pany, scored 93 points commercial scale.

Chicago, October 25.—Mlle. Marie
Liger exhibited by The E. G. Hill Com-
pany, scored 87 points commercial scale.

Boston, October 25.—John N. May,
Summit, N. J., exhibited No. 15 M, sil-
very pink, which scored 86 points com-
mercial scale.

It is gratifying to note that the
imported French variety, Mlle. Marie
Liger, which was exhibited by The E. G.
Hill Company, Richmond, Ind., before
the Chicago, Cincinnati, New York and
Philadelphia committees, is the same
variety which was honored by the award
of \$25 offered by the Chrysanthemum
Society of America, competed for at the
exposition at Paris in 1900. On that
occasion it was exhibited by Monsieur
Liger-Ligneau, horticulteur, Orleans.

EDWIN LONSDALE, Sec'y.

The Chrysanthemum Season.

I love the rose that bloometh in its yellow, red or
white;
The hyacinth, whose fragrance fills the senses
with delight;
The velvet-petaled pansy and the aromatic pink;
The daisy and the dahlia, too, are fair to see, I
think.
For hollyhocks and tulips I've a special weak-
ness and
I always did consider the nasturtium was grand.
But adjectives run out, and I am simply stricken
dumb.
Confronted with the glories of the gay chrysan-
themum.

The sweetness of the william, the alyssum and
pen.
Of color irrespective quite, must still appeal to
me.

A little bunch of lilacs or a sprig of mignonette
Will send me into ecstasies; the modest violet
(A modest little dollar for a bunch they are just
now—

A luxury my means, alas, will by no means
allow)
Afford me (as I can't afford it, owing to that
sum)

A joy—but still I much prefer the the gay chrysan-
themum.

I love its drooping petals, long and slender, bright
and fair,
Of coleslaw reminiscent—or a virtuoso's hair.

In rich and flaming orange or in purple's royal
hue,
In snowy white, in crimson, or some combination
new;

Its stem erect and stately and its leaves of restful
green,
Of all the flowers blooming it's the bloomingest,
I ween.

Its smell I can't say much for, but I'm glad its
time has come,
For I am really daffy on the gay chrysanthemum.

Chicago Daily News.

Coming Exhibitions.

[Secretaries are requested to supply any omis-
sions from this list.]

BALTIMORE, MD., November 10-14, 1902.—Chrysan-
themum show Gardeners' and Florists' Club of
Baltimore. Jno. J. Perry, Sec'y, Gay and Eager
streets.

BOSTON, MASS., November 6-9, 1902.—Chrysan-
themum show Massachusetts Horticultural Soci-
ety. W. P. Rich, Sec'y, Horticultural Hall, 300
Massachusetts avenue.

CHICAGO, ILL., November 11-15, 1902.—First
annual exhibition Chrysanthemum Society of
America and twelfth annual exhibition Horti-
cultural Society of Chicago, to be held jointly. E.
A. Kanst, Assistant Secretary, 5700 Cottage Grove
avenue, Chicago.

HOUSTON, TEXAS, November 18-19, 1902.—Chrysan-
themum show Faith Home Association. M. E.
Bryan, Sec'y, 1619 LaBranch street.

KANSAS CITY, MO., November 3-8, 1902.—Flower
show, Convention Hall Directors, Kansas City, Mo.

LOUISVILLE, KY., November 12-15, 1902.—Chrysan-
themum exhibition Business Women's League.
H. Nanz, superintendent, Louisville, Ky.

MADISON, N. J., November 6-7, 1902.—Seventh
annual flower show Morris County Gardeners' and
Florists' Society. C. H. Atkins, Sec'y, Madison,
N. J.

MANCHESTER, MASS., November 11, 1902.—Chrysan-
themum show North Shore Horticultural
Society. Jas. Salter, Sec'y pro tem.

MARSHALL, TEX., November 13-14, 1902.—Annual
flower show East Texas Flower Association. W.
L. Martio, Sec'y, Marshall, Tex.

NEW HAVEN, CONN., November 11-13, 1902.—
Annual flower show New Haven Horticultural
Society. Thomas Pettit, Sec'y, 316 Orange street.

NEW YORK, N. Y., October 30-November 6, 1902.—
Annual exhibition New York Florists' Club.
John Young, Sec'y, 51 W. Twenty-eighth street.

NEW YORK, N. Y., November 12-13, 1902.—
Exhibition of American Institute. Dr. F. M.
Hexamer, Sec'y, 52 Lafayette place, New York.

PHILADELPHIA, PA., November 11-15, 1902.—
Annual autumn exhibition Pennsylvania Horti-
cultural Society. David Rust, Sec'y, Horticultural
Hall, Broad street below Locust, Philadelphia.

POUGHKEEPSIE, N. Y., November 11-13, 1902.—
Flower show, Dutchess County Horticultural
Society. N. H. Cottam, Sec'y, Wappingers Falls,
N. Y.

PROVIDENCE, R. I., November 13-14, 1902.—
Chrysanthemum exhibition Rhode Island Horti-
cultural Society. C. W. Smith, Secretary, 27-29
Exchange street, Providence.

ST. PAUL, MINN., November 10-12, 1902.—Chrysan-
themum and orchid exhibition Ladies Auxiliary
of the Northwestern Manufacturers' Association.
Mrs. A. P. Moss, Sec'y.

TARRYTOWN, N. Y., November 11-13, 1902.—
Fourth annual exhibition Tarrytown Horti-
cultural Society. Edw. W. Neubrad, Sec'y, Tarry-
town, N. Y.

WACO, TEXAS, November 12-15, 1902.—Chrysan-
themum show, Texas State Floral Society. J. W.
Barnett, Sec'y, Waco.

New York.

MARKET LACKS VITALITY. — RETAILERS NOT COMPLAINING.—STOCK CHEAP AND THEIR TRADE FAIR.—LOW GRADE MATERIAL LOST BY WHOLESALERS.—ABOUT OIL BURNERS.—NOTES.

The wholesale flower market is greatly depressed this week and much complaint is heard from growers and commission men over the situation. Considering the quantity of material coming in, however, it is not clear that business is worse than, or even as bad as, it has been at a corresponding season in other years. The retail people, while asserting that trade is quiet, are not finding fault as a rule, and as conditions favor low values they are having a pretty good time of it. Chrysanthemums improve daily, the big fellows that tell of the approach of the height of the season being in evidence on all sides. Carnations have had a very serious set-back and must be very good to command \$1 per hundred or sell at all. Quite a percentage of the inferior grade stock fails to find a buyer and goes to sleep on the wholesalers' hands. There are also many unsold violets in evidence, these, too, being of the poorer class. The prospects, so far as second quality violets are concerned, are very dubious for the coming winter.

Regarding the appliances for the burning of crude oil as a substitute for coal in greenhouses, Messrs. Lord & Burnham state that they are not handling these burners as a business. They had so many calls by telephone and otherwise from customers who were in sore straits from shortage of coal that they took up the subject of crude oil burners to help out these parties if possible. They intend to further continue their investigations and make tests to ascertain what can actually be done.

The new rose Canadian Queen from the Dale Estate attracts much favorable comment at Thomas Young's, where the blooms are on sale. It is a light pink sport from Mrs. Pierpont Morgan, of very even tint and is an unexcelled keeper.

Ithaca, N. Y.

During the summer the Lord & Burnham Company put up a new greenhouse, 22x50 feet, for the department of grounds, Cornell University. This house was rendered necessary by the increased area devoted to bedding plants on the extensive grounds of the university. The houses of this department are well managed by Albert Shore, son of Robert Shore, the able superintendent of the university's botanical department.

Another of Mr. Shore's sons, Robert J., for some time in charge of Prof. Bailey's place, has recently been engaged to take charge of the greenhouses of the Experiment Station, University of Illinois, under A. C. Beal's supervision.

Des Moines, Ia.

I. W. and Alfred G. Lozier have just moved into their new store, 216 Sixth street, in the building north of the street car waiting room. The store is fitted up with fine fixtures, of oak with marble and mirrors. Miss Mamie Dorn has charge of the new store. She was formerly with W. L. Morris for many years. The Loziers are conducting two stores and a large range of greenhouses.

C. W. S.

SAVANNAH, GA.—A. C. Oelschig is laid up with a dislocated elbow.

OBITUARY.

MRS. ALFRED TILTON.

Mary Rieley Tilton, wife of Alfred Tilton, of A. Tilton & Son, of Cleveland, died on October 28, at the family residence, 261 Walton avenue. The funeral was held privately on October 30.

GEORGE GRAHAM.

George Graham, 81 years of age, for twenty years gardener at the Institute for the Blind at Indianapolis, was burned to death while sleeping in the building at 825 Fort Wayne avenue in which he roomed. He had a son, William Graham, who is employed in the Bellevue Conservatories at Broad Ripple, Ind.

GLEN COVE, N. Y.—Hitchings & Company are erecting a range of four fine conservatories for Percy Chubb.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to THE AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—As rose grower to take charge of section. Beauties or teas. References. Chicago preferred. Address
C. A., care American Florist.

SITUATION WANTED—As foreman; grower of cut flowers and plants. Have had 20 years' experience on commercial places.
C. W. S., care American Florist.

SITUATION WANTED—By Nov. 10th, on medium size place, 9 years' experience, competent to take charge. State wages in first letter. Address
C. A. L., 309 S. Laurel St., Richmond, Va.

SITUATION WANTED—To take the management of a cut flower growing establishment; competent and trustworthy. Wages \$55.00 to \$60.00 per month. References; married. Address
MANAGER, care American Florist.

WANTED—Young, experienced, lady florist. Address
R. H., care American Florist.

WANTED. Thoroughly competent grower of cut flowers. With full particulars, address
B. K. Y., care American Florist.

WANTED—Price lists and catalogues in all lines of the trade. HOUSTON SEED AND NURSERY Co., 1006 Bagby St., Houston, Texas.

WANTED—Good practical man for general greenhouse work. Send full particulars at once. Address M. P. C., care American Florist.

WANTED—Young man to take care of section in American Beauty house at Elliott's Rose Farm, Madbury, N. H. Apply to
ROBT. MILLER, Manager.

WANTED AT ONCE—Reliable man, to grow roses, carnations and general stock. Permanent place. State wages. Address
F. P. L., care American Florist.

WANTED—At once, experienced carnation grower; single; German preferred. Address
N. ZWEIFEL,
Cor. 11th St. and Groeling Ave., Milwaukee, Wis.

WANTED—Good all-around florist; must be sober and a hustler; good grower of potted plants and ferns. Apply
GARFIELD PARK FLORAL CO.,
1688 West Madison St., Chicago.

FOR SALE OR RENT—8,000 ft. of glass, dwelling, sheds, etc. Bonanza for little cash. Be quick.
Dr. McFARLAND, White Hall, Ill.

FOR SALE—Horizontal tubular boiler 48x15 with plug hat dome and with 39 3/4-in. flues, very suitable for heating hot houses. Apply to
WISCONSIN BOX CO., Wausau, Wis.

FOR SALE—\$1,000 buys the best greenhouse and equipment in Northern Iowa. Located in city of 15,000; easy terms, but must sell quick. A big chance to make money. Address
MAHER & MAHER, Fort Dodge, Iowa.

FOR SALE—An old established greenhouse business; entire plant rebuilt; steam heat. With all the ground or part; also with or without residence. Situated in Cleveland, O. A bargain. Address
O. K., care American Florist.

FOR SALE—FLOWER STORE—Good will of business, fixtures and stock of finely located retail store on one of the most fashionable thoroughfares in the city of Chicago. A snap for energetic party. Small capital. Address
N. A. R., care American Florist, Chicago.

Situation Wanted

AS HEAD GARDENER, on private place, by a thorough, competent, reliable, all-around man of 22 years' experience on largest establishment in England, 9 years as head, last 3 years head gardener and rose grower to member of National Rose Society; age 36, married, two children. Copies of testimonials and references on request. Address
F. H., care American Florist.

Wanted FIRST-CLASS HEAD GARDENER

for large estate south. Unmarried preferred. Apply, stating age, experience, salary and address of previous employers, to

W. E. PAGE, Fernandina, Fla.

Wanted, To Rent,

for 5 or 10 years with intention of buying, on May 1st, 1903, 20,000 to 25,000 sq. feet of glass within 40 miles or less of Chicago. No stock wanted. Hot water heat. Everything must be in good condition. Good R. R. connection necessary. Send particulars to
F. P. B., care American Florist.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box. F. O. B. Grand Rapids, Mich. Will sell all or any part. Address

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

Wanted, Manager

One who is competent to grow all kinds of Fruit and Ornamental Trees, Shrubs, Roses and Herbaceous Stock. Must understand the handling of men, have push and energy and be up-to-date in the growing of all different kinds of nursery stock. Also the packing, cellophane and shipping. To the right party this is an excellent opportunity. Address with references.

E. W. R., care American Florist.

FOR SALE.

7,000 sq. feet 10x14 double thick glass.
5,000 sq. feet 16x24 double thick glass.
1,000 sq. feet 7x9 single thick glass.
1,000 sash bars; 75 hot bed sash.
7,000 feet 2-inch wrought iron pipe.
1,000 feet 1-inch wrought iron pipe.
2 Gurney, 2 Lydia, 2 coil boilers.

JAMES BURNS,
41 SECOND ST. EVERETT, MASS.

If you want to get the want you want to get, you want to get your want ad into the

AMERICAN
FLORIST

Try it now.

Every advertisement represents a genuine want. It pays to answer them.

WHEN you want Flowers, any and all kinds, order from DEAMUD. He has in quantity the following:

ORCHIDS, Valley, Violets, Beauties, Tea Roses, Carnations, Chrysanthemums.

J. B. Deamud,
51-53 Wabash Ave., Chicago.

Caldwell's Quality Kounts Brand Wild Smilax now on hand.

E. H. Hunt,
WHOLESALE....
Cut Flowers
THE "OLD RELIABLE."
76 Wabash Ave., CHICAGO.
Poehlmann Bros. Co.
Wholesale Growers of
and Dealers in **Cut Flowers**
All telegraph and telephone orders given prompt attention. 35-37
GREENHOUSES: Morton Grove, Ill. Randolph Street, CHICAGO, ILL.

The F. R. WILLIAMS CO.
WHOLESALE FLORISTS.
Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.
CLEVELAND, OHIO.
Telephone Connections.

Bassett & Washburn
76 & 78 Wabash Ave., CHICAGO.
Wholesale Dealers and Growers of **Cut Flowers**
GREENHOUSES: HINSDALE, ILL.

MCKELLAR & WINTERSON CO.

Supply Everything Used by Florists, Nurserymen, Gardeners, Seedsmen..... Cemeteries, Parks, Etc.

HEADQUARTERS on CUT FLOWERS
45-47-49 Wabash Ave.
Telephone Main 1129. **...CHICAGO**

RICE BROTHERS
WHOLESALE FLORISTS and FLORISTS' SUPPLIES.
Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.
Special attention given to shipping orders. Send for price list of supplies.
128 N. Sixth St., Minneapolis, Minn.

Holton & Hunkel Co.
Wholesale Florists,
467 Milwaukee St., MILWAUKEE, WIS.

...GEO. M. KELLOGG...
Largest Grower of... Cut Flowers In the West.
Give us an order and we will please you.
Our Greenhouses at PLEASANT HILL, MO.
Our Store, 906 Grand Ave., KANSAS CITY, MO
LONG DISTANCE 'PHONE AT EITHER PLACE.

Galax AND Leucothoes.
Selected, Bright and Brilliant. Wholesale Trade Solicited.....
J. L. BANNER & CO., Montezuma, N. C.

Wholesale Flower Markets

MILWAUKEE, Oct. 30.

Roses, Beauty, long, per doz.	2.00@2.50
" " med "	1.00@1.50
" " short "	.50@ .75
" Liberty.....	6.00@ 8.00
" Bride, Bridesmaid.....	4.00@ 5.00
" Meteor.....	4.00@ 5.00
" Golden Gate.....	4.00@ 5.00
" Perle.....	2.00@ 5.00
Carnations.....	1.00@ 3.00
Violets.....	.75@ 1.00
Chrysanthemums, 1.00@3.00 per doz.	
Adiantum.....	.75@ 1.00
Smilax.....	12.00@15.00
Asparagus.....	65.00
Common ferns.....	.25

PITTSBURG, Oct. 30.

Roses, Beauty, specials.....	25.00@30.00
" " extras.....	18.00@20.00
" " No. 1.....	10.00@15.00
" " No. 2.....	5.00@ 8.00
" Kaiserin.....	2.00@ 8.00
" Bride, Bridesmaid.....	2.00@ 6.00
" Meteor.....	2.00@ 6.00
" Liberty.....	2.00@ 8.00
Carnations.....	1.00@ 2.00
Chrysanthemums.....	6.00@20.00
Lily of the valley.....	2.00@ 4.00
Violets.....	.50@ .75
Smilax.....	6.00@15.00
Adiantum.....	.75@ 1.00
Asparagus.....	35.00@40.00
" Sprengeri.....	2.00@ 3.00

CINCINNATI, Oct. 30.

Roses, Beauty.....	5.00@25.00
" Bride.....	1.00@ 3.00
" Bridesmaid.....	1.00@ 3.00
" Meteor.....	2.00@ 4.00
" Kaiserin.....	3.00@ 4.00
Carnations.....	1.00@ 3.00
Chrysanthemums.....	4.00@20.00
Lily of the valley.....	3.00@ 4.00
Asparagus.....	50.00
Smilax.....	12.50@15.00
Adiantum.....	1.00
Common ferns.....	.15

ST. LOUIS, Oct. 30.

Roses, Beauty, medium stem.....	10.00@25.00
" Beauty, short stem.....	3.00@ 8.00
" Bride, Bridesmaid.....	2.00@ 5.00
" Golden Gate, Carnot.....	2.00@ 6.00
" Meteor.....	2.00@ 6.00
Carnations.....	1.00@ 2.50
Chrysanthemums.....	10.00@25.00
Tuberose.....	4.00@ 5.00
Lily of the valley.....	4.00
Smilax.....	12.50@15.00
Asparagus Sprengeri.....	1.50
" Plumosus.....	.75@ 1.00

The Cincinnati Cut Flower Co.,
437-439 Main St. WHOLESALE FLORISTS. CINCINNATI, O.
Consignments Solicited. Special Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.
Michigan Cut Flower Exchange.
Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around. BRONZE GALAX, \$1.00 per thousand.
26 Miami Ave., DETROIT, MICH.

H.G. BERNING
Wholesale Florist
1322 Pine St., ST. LOUIS, MO.

Frank M. Ellis,
WHOLESALE FLORIST,
1316 Pine Street, ST. LOUIS, MO.
CONSIGNMENTS SOLICITED.

C. A. KUEHN,
Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

Pittsburg Cut Flower Co. Ltd
WHOLESALE FLORISTS,
Pittsburg, Pa.
Please mention the American Florist when writing.

Large Cuts Stock Good to Choice.

PLENTY Chrysanthemums, all colors, all sizes, all prices. Send us your orders, large or small, we'll please you. Best Brides and Maids in this market. Enough for all if orders are in early. Big cut of Beauties, choice buds, all lengths of stems, but there's been a big demand this week. Cattleyas, Valley, Smilax and all Greens. Everything in season. Call on us for all your needs. "Right goods at right prices." Price list mailed to all applicants. A postal will do.

E. C. AMLING,

32-36 Randolph St.

L. Dis. Phones 1999 and 1977 Central.

Chicago, Ill.

The Largest, Best Equipped and Most Centrally Located Wholesale Cut Flower House in Chicago.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Avenue, CHICAGO.

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.

600,000 FEET OF GLASS.

Headquarters for American Beauties.

51 WABASH AVE., CHICAGO, ILL.

FRANK GARLAND,

Wholesale Grower of **Cut Flowers**

SPECIAL ATTENTION GIVEN TO HARDY CUT **FERNS**

65-57 WABASH AVENUE, CHICAGO. Telephone Central 3284.

JOHN MUNO,

Wholesale Grower and Shipper of **Cut Flowers**

Room 221, 51 Wabash Ave., CHICAGO.

TELEPHONE CENTRAL 3568. All telegraph and telephone orders given prompt attention.

Please mention the American Florist when writing.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

Benthey & Co.

F. F. BENTHEY, Manager.

Wholesale Commission Florists

Consignments solicited.

31-35 Randolph St., Chicago.

Wholesale Flower Markets

CHICAGO, Oct. 31.

Roses, Beauty, 36-inch stems	3.00
" " 30 " "	2.50
" " 24 " "	2.00
" " 20 " "	1.50
" " 15 " "	1.00
" " 12 " "	.75
" " 6 to 8 " " per 100	4.00@ 5.00
" Liberty.....	3.00@10.00
" LaFrance, Chateau.....	3.00@10.00
" Bride, Bridesmaid.....	2.00@ 5.00
" Meteor, Golden Gate.....	2.00@ 5.00
" Perle.....	2.00@ 5.00
Chrysanthemums, per doz., \$.60@3.00.	
Violets.....	.50@ 1.00
Carnations.....	1.00@ 3.00
Lily of the valley.....	4.00@ 5.00
Asparagus, per string, .50	
Adiantum.....	.75@ 1.00
Common ferns, per 1000, 1.50	.15
Smilax, per dozen, 1.25@1.50	

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO.

Send for weekly price list and special quotations on 1000 lots.

Please mention the American Florist when writing.

GEO. REINBERG,

Wholesale Grower of **Cut Flowers**

Choice American Beauties.

We will take care of your orders at reasonable prices. Prompt attention.

51 Wabash Ave., CHICAGO, ILL.

Please mention the American Florist when writing.

AMERICAN FLORIST ADS ALWAYS DO BUSINESS

Week days and every day, Sundays and holidays.

ALL OVER THE COUNTRY AT HOME AND ABROAD.

VALLEY! VALLEY!! VALLEY!!!

Get Bruns' celebrated Valley for the show; you will have the best Large quantities always on hand at Chicago market prices.

Finest cold storage Pips, \$15.00 per 1000; \$1.50 per 100.

H. N. BRUNS, 1409 W. Madison St., Chicago.

Please mention the American Florist when writing.

VALLEY SAMUEL S. PENNOCK, ORCHIDS

Wholesale Florist,
1612-18 LUDLOW ST., PHILADELPHIA, PA.
Open from 7:30 a. m. to 8.00 p. m.

GEO. A. SUTHERLAND,
34 Hawley St., BOSTON.
Telephone 1270 Main.
BEST BOSTON FLOWERS. All Supplies.
An entire floor Devoted to Stock and Manufacturing. Distributing Agent for United States for the wonderful



LETTER, unequalled for design work. Script, any color, 3/4c a letter. Block letters, 1 1/2c each. The most elaborate design work to order in a few minutes.

GENERAL AGENTS:
H. BAYERSDORFER & CO., Philadelphia.
REED & KELLER, New York City.

Orders for Cut Flowers of the New White Carnation.

Lillian Pond,

FILLED EVERY DAY. PRICE, \$5.00 per 100.

CITY HALL CUT FLOWER MARKET

WELCH BROS., PROPS.

9 CHAPMAN PLACE, Boston, Mass.
15 PROVINCE STREET,

THE NEW YORK CUT FLOWER CO.

55 and 57 West 26th St.,
WHOLESALE FLORISTS,

Daily Reports. Weekly Payments.
TELEPHONS: J. A. MILLANG,
2239 Madison Sq. 2034 Madison Sq. MANAGER.

GEORGE SALTFORD,

Wholesale Commission Florist,

46 West 29th Street, NEW YORK.
Fair dealing and prompt returns guaranteed.
Correspondence solicited.
Author of "How to Make Money Growing Violets."

ROVATZOS & MOLTZ

Buy and Sell... FLOWERS on Close Margin.
Headquarters, 56 West 26th Street,
WHITE, Opposite Cut Flower Exchange,
TELEGRAPH OR TELEPHONE. NEW YORK CITY.

N. F. MCCARTHY & CO.

Best Quality
CUT FLOWERS
and Supplies,

Tel. 734 and 64 Main. 84 Hawley St., BOSTON.

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg, 6th Ave. and W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock
Every Morning

DESIRABLE WALL SPACE TO RENT
FOR ADVERTISING.

JOHN DONALDSON, Secretary.

Hardy Ferns...

Everything and anything in Florists' Hardy Supplies at lowest prices. Estimates on large orders on application. Prompt delivery.

BOSTON FERN CO., 14 Brattle St., BOSTON, MASS.

Wholesale Flower Markets

BOSTON, Oct. 29.	
Roses, Beauty, Edgely, extra.....	10.00@25.00
" " medium.....	5.00@ 8.00
" " culls.....	.50@ 2.00
" " Bride, Bridesmaid, Meteor	2.00@ 3.00
" " extra.....	4.00@ 8.00
" " Kaiserin, Carnot.....	3.00@ 8.00
Chrysanthemums.....	6.00@12.00
Carnations.....	.75@ 1.00
Lily of the valley.....	2.00@ 4.00
Adiantum.....	.75@ 1.00
Asparagus.....	50.00
Smilax.....	12.50@18.00

PHILADELPHIA, Oct. 29.	
Roses, Tea.....	2.00@ 4.00
" " extra.....	4.00@ 8.00
" " Beauty, extra.....	15.00@ 35.00
" " firsts.....	8.00@12.00
" " Queen of Edgely, extra.....	25.00@35.00
" " firsts.....	10.00@20.00
Carnations.....	1.50@ 2.50
Chrysanthemums, per doz.,	1.50@3.00
Violets.....	.50@ 1.00
Lily of the valley.....	3.00@ 5.00
Asparagus.....	25.00@50.00
Smilax.....	12.50@15.00

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Roses, Beauty.....	15.00@30.00
" " Bride, Bridesmaid, Meteor	3.00@ 6.00
Carnations.....	1.50@ 3.00
Chrysanthemums, per doz.,	\$2.00@3.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50



HARDY Cut Dagger and Fancy Ferns. A No. 1 quality \$1 per 1000. Brilliant Bronze and Green Galax, \$1 per 1000, in 5,000 lots. Laurel Festooning, 4, 5 and 6c per yard. Orders by mail, telephone or telegraph promptly attended to. Discount on large orders. L. D. telephone 2618 Main.

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If it is grown in Florida, we supply it.

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Orders filled promptly at lowest prices consistent with choice quality.

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GROWERS and BUYERS make a note of this. It will be to your advantage.
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Open from 6 a. m. to 5. p. m.
Cut Flower Exchange, 55-57 W. 26th St. NEW YORK.
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Roses, Beauty, Edgely, best..... 15.00@25.00
" " medium..... 8.00@12.00
" " inferior..... 1.00@ 5.00
" " Bride, Bridesmaid..... 1.00@ 8.00
" " Liberty, Meteor..... 1.00@ 8.00
Carnations..... .50@ 3.00
Violets..... .25@ 1.00
Lily of the valley..... 2.00@ 5.00
Lilies..... 8.00@10.00
Chrysanthemums, medium..... 4.00@ 6.00
" " special..... 10.00@20.00
Cattleyas..... 25.0 @33.00
Dendrobium formosum..... 20.00@25.00
Smilax..... 8.00@10.00
Adiantum..... .50
Adiantum Peter Crowe..... 1.25
Asparagus..... 35.00@51.00
" Sprenger, doz. bun. 2.00@3.00

RELIABLE AT ALL SEASONS.
Best Flowers.
REASONABLE PRICES.
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CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

VISITED CHICAGO: Arthur G. Lee, of Arthur G. Lee & Bro., Fort Smith, Ark.

MARY A. RIELEY, wife of Alfred Tilton, of A. Tilton & Son, Cleveland, O., died October 28.

HOLLY groves in localities where this article has formerly been in good supply are reported to show but half an average crop of berries. The leaves are in good color.

OWING to the steady increase of business, Vaughan's Seed Store, Chicago, needs extended warehouse space and has leased three floors and a basement, 55x125 feet, at 117-119 Kinzie street.

BOUQUET green picking continues fairly good at the advanced prices, cold weather, rain and snow flurries having been the rule the past week. However, ten days more of bright weather should give the trade a fair average supply.

AMONG the first preliminary trade price-lists for 1903 is that of J. M. Thorburn & Company, dated October 24. Of cucumber seed they say, "Crop almost a failure." Of musk melon seed, "Very short crops." Water melon seed, "Crops very short." Peas, "The crop is generally a failure." Pumpkin, "Many kinds failed."

The English Seed Market.

Correspondents of the *Gardeners' Chronicle*, writing October 15, report that the most interesting feature of that week had been the considerable rise in the value of red clover seed. Scarcely any English seed can now be expected, whilst the advance Russian sales made to Germany, as well as the American sales to Europe, are being cancelled by the payment to the buyers of substantial smart money. Alsike and white hold well their own, but trefoil continues quiet. With respect to rye grasses the tendency is still upwards. Meanwhile, the rates demanded for Königsberg vetches are regarded as prohibitory. Canary seed, with light stocks everywhere, and poor crop prospects the world over, keeps very strong. Hemp seed, however, drops in price. Blue peas and haricot beans are in short supply, and must be quoted dearer.

European Seed Crops.

The following is the condition of European seed crops as reported by special correspondents by latest mail:

GERMANY.

The seed growers in the center of Germany are now very busy harvesting their crops; everyone is working hard to pluck the last flowers and vegetables in the fields, and the two or three fine days in the middle of October favored the harvest work. Almost all flowers are plucked and brought in, only the late sorts of asters, antirrhinum, zinnia, tagetes and scabiosa remain on the grounds; for the complete maturity of these, sunshine and dry weather are still needed.

The harvest of vegetables is finished as regards the greatest part; all the seed stores and magazines resound with the rattling of the cleaning machines working almost day and night to purify the immense lots of seeds. Parsley, leek and some runner beans are not in yet, and onions are still for the greatest part in the fields, but cucumbers, lettuce, beets, peas, radish and so forth are in and the cabbage varieties are cleaned and ready for sale.

In general this year has not been favorable for the growing of seeds, either for the vegetation or for the crops. Hot days were very rare; no one can remember more than a dozen. On the con-

trary we had plenty of rain, humidity, fog and frosty nights. The spring commenced with snow; even in southwestern Germany, which is famous for the mildness of its springs, the average temperature went 3° to 1° under the normal, in some districts even 5°. In Karlsruhe the meteorological observations can be traced to 1779, but a cooler May than the one of 1902 is not marked, and the observatory on the Brocken, near Quedlinburg, noted a snowfall on July 12, a phenomenon which has not been observed for many years.

Under these circumstances the vegetation did not progress sufficiently, the spring flowers opened late and the frost destroyed a great deal of the fruit tree bloom and damaged almost all early vegetables. Indeed, the crop is about three weeks behind the usual time, and I dare say that the seeds of early ripening varieties of the cabbage tribe, chervil, spinach, corn salad, turnips, pansies, summer flowers as clarkia, nigella and so forth have produced normal crops, while the later ripening varieties like peas, beans, lettuce, onions, mignonette, carnations, candytuft and so forth are under the normal, and the so-called autumn crops like carrots, leeks, parsley, asters and zinnia will yield bad crops. Cucumber is the worst of all and will surely fetch high prices, the quantities on disposal being far less than usual.

In consequence, the quotations on the early gathered seeds are cheap, but the late ripening seeds, and especially certain kinds of asters, will be far higher than last year. Beans and peas will go up considerably. Business has not commenced yet and prices will probably be issued later than ordinary, for it will be some time before the seedsmen are able to say definitely what are the exact quantities at their disposal. As there are in hand very meagre stocks, it is to be presumed that the trade will get brisk and, indeed, the inquiries for certain articles begin to come in already.

FRANCE.

The crop in France is going on under difficulties on account of excess of humidity; many seeds need artificial drying, so that in some cases the germinative power and the appearance of the seeds will probably suffer. In general the crop is satisfactory, especially in Anjou, with the exception of cucumbers, which are a failure altogether, both in the north and in the south. Lettuces are good everywhere, but prices are not too cheap, on account of the bad crop in Germany. Onions are on hand in sufficient quantities; the crop is good and prices cheaper than they have ever been, but the seed appears lighter than ordinary. Smaller plantations for next year. The growers are satisfied with cabbages; the red varieties especially gave very good quantities, the first time for several years. The plants for next year seem in good condition. Kohl rabi was ravaged a little by caterpillar, but large areas have been planted for next year.

Turnips were a good crop and cheap prices; this article will probably not be cleared. Parsley is not quite cleaned yet, but a good crop is estimated. Sufficient plants for next year. The south and Anjou announce a favorable radish crop and, as the growers near Paris seem also to have a satisfactory harvest, we may say that the general crop is good. This is the first time again

for many years. Leek is not quite plucked but promises good results. The growers in the Bretagne district pretend that they obtained insufficient crops of peas but the situation of this article is uncertain and business slow in consequence. Beans will furnish very small quantities, on account of the constant humidity which kept back the development of the plants. A great quantity of the beans are rotten and will germinate small percentage.

Carrots promise far better results than the last three years; and it is not too soon, for the growers seemed to be disgusted with this article, but the better crop in hand will surely encourage them to continue the culture of carrot seed. The crop is good in the environs of Paris, sufficient in the center districts but not so good in the south, where only fodder carrots are cultivated. Beets furnish a good crop, both in quality and in quantity. The plants for next year seem in good condition up to date and strong enough to pass the winter.

Nashville, Tenn.

WEATHER AIDS IN THE PRODUCTION OF AUTUMN FLOWERS. — FLORISTS HAVE OPENING AND GIVE BOUQUETS.

The fine fall weather of the past few weeks has served to continue in bloom all kinds of autumn flowers and there has been a profusion of dahlias and cosmos, which, while not helping the florist much in his sales, have served to keep the store windows resplendent. Roses are good. Some very fine Beauty are being cut and teas are coming in fine. Violets also are beginning to flower more freely and, as usual, meet with a general sale, there being a good demand for all that are in the market. Chrysanthemums are plentiful and fine. Geny Brothers, as well as Joy & Son, have good stock and are having good sales.

Joy & Son had an opening last week. For two days the handsomely decorated store was thronged and over 10,000 roses, carnations and chrysanthemums were given away. The schools were invited especially and long processions of school girls returned flower laden to their several seminaries. They had plenty for everybody, and that without money and without price. Joy & Son have now thirty greenhouses, three of them 400 feet long. Geny Brothers have also added largely to their greenhouse plant, and have built five new houses since last season.

M. C. DORRIS.

OVER 2,000 ACRES IN CULTIVATION.

Braslan Seed Growers Co.

Growers for the Wholesale Trade Only.

Correspondence solicited.

SAN JOSE, CAL.



Field of Danvers Half Long Carrot going to seed for crop of 1902.

THE ANNUAL Autumn Number

.....OF.....

THE AMERICAN FLORIST

.....WILL BE ISSUED.....

NOVEMBER 15th, 1902.



This splendid special issue of **THE AMERICAN FLORIST** will commemorate the first annual exhibition of the

CHRYSANTHEMUM SOCIETY OF AMERICA

While the leading feature will be the great exhibition at Chicago, this issue will fully cover the many other shows of the week and will be an invaluable record of the floricultural progress of the year. There will be many technical and timely articles, fully illustrated, and the issue will be all that the trade has learned to expect these great special issues to be.

Copies of this number will be mailed throughout the United States and Canada to every person in the trade whose business is worthy of consideration, also to leading foreign houses. Its business bringing powers will be great.

Advertisements in body pages will be taken at our ordinary rate, namely \$1.00 per inch, \$30.00 per page of thirty inches, with the usual discounts on time contracts. Advertisements on second, third and fourth **SPECIAL COVER PAGES** (printed on heavy enameled paper), \$30.00 per page net.



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THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. LOENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

J. H. LEWIS, who was a pioneer nurseryman at Bonham, Tex., and later at Council Bluffs, Ia., died recently at Buena Vista, Colo., aged 69 years.

It is said by a good authority that the planting of nursery stock in Minnesota in the past year has been far ahead of any previous year. Most of it went into new orchards.

B. F. WILSON and W. F. Cyester, of W. J. Peters & Co., Troy, O., are in the east. They say the past season has been a good one for growing purposes and stock is in excellent shape.

FRED. WELLHOUSE, the king of apple growers, has in twelve years marketed 450,000 bushels of apples at an average price of 28 cents per bushel. He says Ben Davis is the most profitable variety.

THE Missouri State Horticultural Society will hold its forty-fifth annual meeting at Springfield December 2 to 4. There will be a large display of fruit. L. A. Goodman is secretary, 4,000 Warwick boulevard, Kansas City.

Habitat of Yucca Filamentosa.

ED. AM. FLORIST:—In your issue of October 11, W. A. Peterson, in answering "C's" inquiry about Yucca filamentosa, says: "The plant is a native of the southwestern United States and Mexico." This is so great an error that it ought not to pass uncorrected. Yucca filamentosa is native nowhere west of the Mississippi river except possibly in Louisiana. Britton and Brown in their "Illustrated Flora" give its habitat as "Maryland to Florida, Tennessee and Louisiana." Among the scientific papers contained in the Thirteenth Annual Report of the Missouri Botanical Garden is one on "The Yuccae," by Prof. Wm. Trelease, in which Y. filamentosa is referred to thus: "In a generalized sense, a species usually of the coastal plain of the southeastern Atlantic region, from Tampa, Fla., to above Charleston, S. C., and extending back to northwestern Georgia, west-central North Carolina, southwestern Alabama, and the gulf coast of Mississippi."

There is also a distinct species, Y. flaccida, found native from "Asheville, N. C., to Gadsden and Anniston, Ala., in and near the mountains," forms of which have been introduced into cultivation as Y. filamentosa and are probably more widely disseminated than the true filamentosa. Prof. Trelease says: "The filiferous-leaved 'bear grasses' of the southeastern United States are not easily disposed of in an attempt to monograph the genus to which they belong, partly because they are more commonly seen in cultivation than in a state of nature, partly because of their interblending characters, and partly because of generalized earlier descriptions. * * * That two species, Y. filamentosa and Y. flaccida, are separable, appears certain, * * * but I have found it possible to fix only an approximate geographical range for either, and the garden forms are not separated as sharply as is desirable, nor so as to prevent some of them from obscuring the demarkation line between the species. It is not improbable that some of them represent hybrids between

the latter." He describes several forms or varieties of both species and raises the Louisiana variety to the dignity of a species (Y. Louisianensis) of which he says: "Apparently a western derivation of the same stock as the eastern Y. filamentosa and Y. flaccida, to both of which it bears some relationship, while apparently distinct from either."

Yucca glauca (Y. angustifolia, Pursh), which is native from Iowa and South Dakota to Wyoming, south to Missouri, Texas and Arizona, and which is the

smallest of the yuccas and the most northern of the genus in its geographical distribution, is often referred to by correspondents of the region west of the Mississippi as Y. filamentosa; and no doubt many inhabitants of that region refrain from purchasing the latter most excellent garden plant because they suppose it to be identical with the species growing wild all about them. This is regrettable because the two plants are not only entirely distinct but filamentosa is in every way superior. W. N. PIKE.

THE GLENWOOD NURSERIES

EVERGREENS.

The largest and most complete assortment of SPECIMENS, sheared and of natural form. All root pruned and carefully grown.

EVERGREEN TREES, EVERGREEN SHRUBS and VINES for window boxes and Winter decorations.

DECIDUOUS TREES.

20,000 Oriental Plane Trees, 6 to 14 feet. 25,000 Oaks, in variety, 6 to 14 feet. 100,000 Maples, in variety, 8 to 18 feet. Beech, Birch, Ash, Elms, Cinkgo, Poplars and other leading varieties.

HEDGE PLANTS.

200,000 California Privet, 1 to 4 feet. The finest grown. Osage Orange, Berberis Thunbergii, Aithaeas, etc.

SPECIAL QUOTATIONS TO LARGE BUYERS. NEW TRADE LIST NOW READY. DESCRIPTIVE ILLUSTRATED CATALOGUE ON APPLICATION.

FLOWERING SHRUBS.

15,000 Hydrangea Paniculata Grandiflora, 1 to 4 feet.

5,000 Deutzias (Gracilis and Lemoinel), for forcing.

A complete assortment of Shrubs of all sizes, including quantities of large shrubs for immediate effect plantings, as well as smaller grades.

CLIMBING VINES

5,000 Ampelopsis Veitchii, 1 and 2 years.

20,000 Hall's Japan Honeysuckle.

20,000 Clematis Paniculata.

English and Irish Ivies, Wistarias and other vines.

Crimson Rambler, Wichuraiana and other climbing and running roses.

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60 MILES FROM NEW YORK.

30 MILES FROM PHILADELPHIA.

25,000 Rudbeckia The Glow Clumps, \$3.00 per 100; \$25.00 per 1000.

25,000 Boltonia Asteroides Clumps, \$4.00 per 100, \$35.00 per 1000. and thousands of other varieties of

Hardy Herbaceous Plants. 150,000 ASPARAGUS,

Conover's Colossal, etc., and a full line of Trees, Shrubs, etc. Send for catalogue.

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3,000 CALIFORNIA Privet

12 to 18 inches, branched, strong, at \$9.00 per 1000. Cash.

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Excellent, well graded and well furnished stock in sizes from 6 inches to 3 feet, at from \$6.00 to \$25.00 per 100. Send for our Trade list.

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Gannas, Golden Glow, Irie Kaempferi. Choice varieties of DAHLIAS, all strong roots. WRITE FOR PRICES.

RIVERDALE FARM, J. B. BRIDGE, Supt. Grand Rapids, Wis.

Fine Grafted ORANGES Bearing Sizes.

Per 100 12 inch, bushy, from 4-inch pots.....\$20.00

15-18 inch, bushy, from 4-inch pots..... 30.00

10-12 in., bushy, from 4-in. pots 20.00

Kin Kans 15-18 in., bushy, from 4-in. pots 30.00

Lemons 12-15 in., bushy, from 4-in. pots.. 20.00

18-24 in., bushy, from 4-in. pots 30.00

Roses Climbing Clothilde Souper, strong field-grown. 10.00

Crimson Rambler, stg. field-grown 7.00

Clematis Apiifolia A fine variety, somewhat similar to C. Paniculata, but blooms earlier and lasts longer; strong plants from 3-inch pots.... 8.00 (Not less than 40 of a class at 100 rate.)

Citrus Trifoliata (Best defensive hedge plant.) Per 1000

Strong, 2 year old, field-grown.....\$15.00

Strong, 3 year old, field-grown..... 20.00

Amoor River Privet (Better than California Privet.)

18-24 inch, branched..... 15.00

24-36 inch, branched..... 20.00

Not less than 400 of a class at these rates.

Rubbers, Kentias, Phoenix, Latanias, Pandanus, Ornamental Trees and Shrubs in large quantities.

WRITE FOR CATALOGUE.....

P. J. BERCKMANS CO. (Inc.)

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Established 1856. AUGUSTA, GA.

PAEONIAS FOR FALL... 10 distinct, best kinds, \$10.00 per 100.

Ampelopsis Veitchi, 2 year, strong....\$1.00 per doz.

Clematis Paniculata, 2 year, strong, \$1.00 per doz.; \$7.00 per 100.

Clematis, large flowering, \$2.50 per doz.; \$18 per 100.

F. A. BALLER, Bloomington, Ill.

Dreer's Importations of Azaleas

Our importations of Azaleas have arrived and we have commenced shipments. If you have not yet placed your orders we would advise you to do so at once, in order to secure low fall prices, as well as to take advantage of low cost of transportation while shipments can still be made by freight.

We are in position to give you best qualities because our growers are among the most skilled specialists in Belgium. We can give you best values because we are not only the most extensive importers of these plants to the United States, but also because we buy for cash at best prices and give our customers the benefit of these important points.

10 to 12-inch crowns, bushy plants.....	\$4.50 per dozen	\$35.00 per 100
12 to 14-inch crowns, bushy plants.....	6.00 per dozen	45.00 per 100
14 to 16-inch crowns, bushy plants.....	7.50 per dozen	55.00 per 100
16 to 18-inch crowns, bushy plants.....	12.00 per dozen	90.00 per 100
18 to 20-inch crowns, bushy plants.....	25.00 per dozen	200.00 per 100
20 to 24-inch crowns, bushy plants.....	36.00 per dozen	300.00 per 100

We can still include in assorted lots ten per cent Mme. Van der Cruyssen, this variety being very scarce this season.

EXCEPTIONAL VALUES IN ARAUCARIA EXCELSA

The two sizes of Araucaria Excelsa offered below are the greatest values we have ever offered in this plant and you will make a mistake if you don't secure a supply for your Holiday trade:

6-inch pots, 20 to 24 inches high, 4 tiers.....	\$1.00 each
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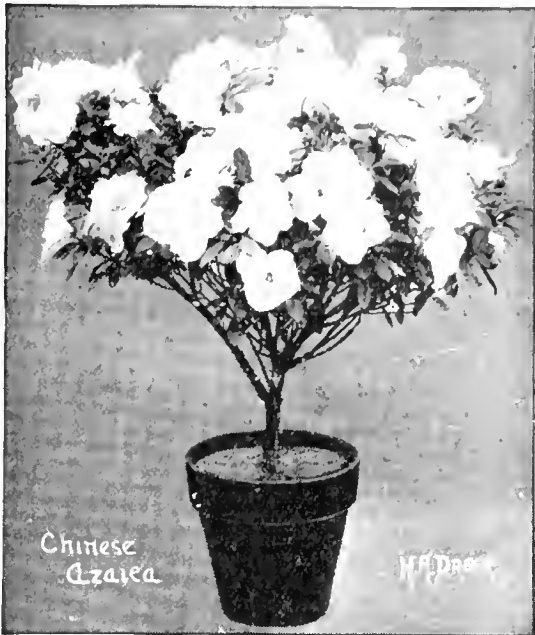
RUBBER PLANT—FICUS ELASTICA.

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For a full and most complete line of Palms, Ferns and all Decorative Plants, see our QUARTERLY WHOLESAL LIST.

Hardy Perennial Plants, Paeonias, Phloxes, etc., etc., are one of our important specialties. We are carrying an immense stock of these popular plants. Write us for anything you may require in this line.

HENRY A. DREER, PHILADELPHIA, PA.



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ONCIDIUMS and CYRTOPODIUMS

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J. E. LAYNE, Marco, Fla.

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STRONG, FINE STOCKY PLANTS,

Mixed colors, by mail, 75 cents per 100; \$3.00 per 1000; per 10,000, \$25.00. Large transplanted plants, in bud and bloom, \$1.25 per 100 \$10.00 per 1000.

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100,000 PANSIES

Highest Grade, Finest Stock. The Jennings Strain.

Mr. John Lewis Childs, of Floral Park, N. Y., says of the Jennings Strain: "The largest and finest colored flowers I have ever seen." By mail 75c per 100; by express, \$4.00 per 1000; 3,000 \$11.00; 5,000 \$18.00. Separate colors same price. Large plants ready to bloom Oct. 1st, \$1.00 per 100; \$8.00 per 1000. **SEED**, \$1.00 per pkt.; \$5.00 per oz. CASH WITH ORDER.

E. B. JENNINGS, Lock Box 254, Southerport, Conn.
Grower of the Finest Pansies.

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GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

KENTIA Belmoreana and Forsteriana, extra clean and well grown plants, 2 1/2, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

REX BEGONIA, 2 and 3-inch, \$4 and \$6 per 100.

BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.

ASPARAGUS Plumosus, 2-inch, \$5; 3-inch, \$8. Sprengeri, 2-inch, \$3; 3-inch, \$5, per 100.

DRACAENA INDIVISA, 4, 5-in., \$10, \$25 per 100

ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100.

CAMPBELL VIOLETS, 3-inch, \$4.00 per 100.

CERANIUMS, rooted cuttings, standard varieties; your choice \$1.25, my choice \$1.50 per 100.

VINCA VAR., 3-inch, \$4.00 per 100.

CINERARIA, 2-inch, \$2.00 per 100.

Chinese Primrose, 2-in., \$3; 3-inch, \$5 per 100
Cash or C. O. D.

CEO. M. EMMANS, NEWTON, N. J.

ROBT. CRAIG & SON,
Roses, Palms
and Novelties in Decorative Plants,
Market and 49th Sts., Philadelphia, Pa.
Please mention the American Florist when writing.

Pansy Plants.

MME. PERRET, the finest strain on the market, large plants that will bloom soon at 50c per 100; \$3.50 per 1000; 3,000 for \$10.00.

J. C. SCHMIDT, BRISTOL, PA.

Please mention the American Florist when writing.

BEGONIA GLOIRE DE LORRAINE, Begonia Light Pink Lorraine,

For July and Later Delivery,
\$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near Chestnut Hill, Pa.

Calif'nia

ASPARAGUS PLUMOSUS,

Extra fine 3 1/2-inch stock, \$4.00 per 100; \$35.00 per 1000. 4 1/2-inch, \$8.00 per 100.

EXPRESS PREPAID.

Pansy Seed, 1902 Giant of California.

\$4.00 per ounce, 1/4 ounce at same rate.

FIELD-GROWN CARNATIONS,

QUEEN LOUISE..... \$7.00 per 100

MERMAID..... 6.00 per 100

LOOMIS FLORAL CO., Loomis, Cal.

ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong, 2 1/2-inch, \$3.50 per 100.

SPRENGERI, strong, 2 1/2-inch, \$2.50 per 100.

BOSTON FERNS.

From bench fit for 3, 4, 5, 6, 7 and 8-in., 2 1/2c, 5c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA

Extra fine, 4 to 7-inch pots, only 12c per leaf.

25 FINE RUBBER PLANTS, 3 feet, \$1 each, or the lot for \$20.00. CASH PLEASE.

A. J. BALDWIN, NEWARK, OHIO.

H. Wrede, LUNEBURG, GERMANY
PANSY SEED.
155 First Prizes, the highest awards Chicago, Hamburg 97, Paris 1900. 1000 Seeds, finest mixed, 25c. 1 oz. \$2.25
Price List on application. Cash with order.

Pansies Worth Raising.

Strong plants, \$4.00 per 1000; \$2.50 per 500; \$1.00 per 100, f. o. b. express here. Cash with order.

CHR. SOLTAU,
199 GRANT AVENUE, JERSEY CITY, N. J.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

At New York.

The following are the scores made on the New York alleys on Monday, October 27:

Player	1st	2d	3d	4th	5th
Hansen	157	139	143	148	132
Mansfield	162	165	177	164	190
Lang	164	169	175	192	234
Siebrocht	142	151	138	200	204
Treadly	113	129	122	99	
Shaw	103	101	122		

At Chicago.

The Chicago bowlers have decided to begin the season's campaign next Tuesday evening and have selected a set of splendid alleys at 775 West Madison street. There will be weekly meetings, four teams rolling together, one representing the wholesalers, another the retailers, one McKellar & Winterson and one Vaughan's Seed Store. The alleys were inspected last Sunday. They are all that could be desired, are kept clean and the proprietors made a good offer to the prize fund; besides, they set up a nice little lunch every night.

Cleveland.

MEMBERS WIVES SUPPLY A SURPRISE FOR CLUB MEETING.—SUPPER AND BOWLING.—TRADE FAIR BUT STOCK ACCUMULATING.—A VARIETY OF PERSONAL AND OTHER NOTES.

The Florists' Club held its regular meeting on Monday night and was treated to a number not down on the programme. This was in the nature of a pleasant surprise party gotten up by a number of the members' wives. The meeting had only adjourned and bowling commenced when a lot of white robed masked figures suddenly made their appearance in the club room. Hung around the neck of the foremost figure was a large placard on which was printed the invitation, "Take your pick." The members were not slow in responding to the invitation and were conducted by their ghost-like partners to the supper hall, where a delightful repast awaited them. When all were seated the masks and ghostly apparel were discarded and a right jolly good time followed. Mrs. H. A. Hart, Mrs. A. Schmitt and Mrs. A. Graham and that prince of good fellows, Charlie Gibson, were the chief conspirators in getting up the delightful affair. The members of the club were taken entirely by surprise, for no word or sign had they of what was going to take place. President Gray, in a neat little speech, thanked the ladies for the very pleasant entertainment, and Mrs. Hart replied on behalf of the ladies. Quite a number of those present were called upon for a few remarks. After supper all repaired to the bowling alleys, which were given over to the ladies. Mrs. Fred. Aul easily carried off the honors by rolling up 101 in six frames.

Business continues good, but owing to the continued hot spell stock is piling up in such a manner as to become unwieldy and consequently prices have suffered. Chrysanthemums are to be had in any quantity and are selling at from \$6 to \$15 per hundred, only the extra fine

blooms bringing 20 cents. Roses have suffered; \$5 will buy the pick; \$1 to \$2 is the ruling price for carnations. All other flowers are in proportion. Cosmos can be had by the wagonload. A good frost would help matters greatly.

C. H. Turner was a visitor in town this week, having returned from Redondo Beach, California. He says there is a good opening for the palm-growing business on the Pacific coast, good palms bringing almost double the price obtained in the east.

The growers in and around Cleveland are thinking seriously of starting a cut flower market on similar lines to that of Boston and Philadelphia. The project is a commendable one and ought to be encouraged.

Isaac Kennedy has decided to remain in Cleveland, having purchased a tract of land at West Park, a suburb, where a range of houses will be erected as early next spring as possible. Echo.

Toledo, O.

PROSPERITY APPARENT IN ALL THE ESTABLISHMENTS.—STOCK IN GOOD SHAPE AND CUT FLOWERS IN DEMAND.—EARLY CHRYSANTHEMUMS FARED WELL.—JOTTINGS HERE AND THERE.

The early chrysanthemum, like the early bird, is having its chance, the supply here barely keeping pace with the demand. First-class blooms retail readily at \$3 and \$4 per dozen, while \$2 seems to be the standard price for the average cut. Another week will no doubt see an abundance of the midseason or tardy ones on the market. He who claims that there is no show for the carnation and rose at this season needs but visit the stores here to disprove such an assertion. Both are much in demand, despite their temporary rival, and what is equally encouraging is the fact that the stock is improving in quality from day to day. At the Scottwood Greenhouses roses are in fine condition, not a speck of mildew or a dried leaf to be seen on any of the plants. Mr. Magee, the proprietor, has a method of growing roses which brings him sure results. Begonia Gloire de Lorraine and poinsettias are also grown successfully and from all indications there will be enough of both to go the rounds.

George Bayer's model greenhouse range is complete and in working order. Two houses 20x365 each, equipped with all the modern appliances, such as tiled benches and solid beds of the most approved construction, may indeed be regarded as models. Although planted late in September, Mr. Bayer's carnations are very promising, and such varieties as Lawson, Joost, White Cloud and Crane could not possibly be improved upon. A white seedling of his own is grown in quantity and while not a "fancy" bloom it is a valuable acquisition. His chrysanthemums are equally good, Chadwick being his favorite white, with Timothy Eaton as a close second, while Appleton and Bonaffon hold sway among the yellows.

Krueger Brothers have their carnations in the pink of condition. Triumph is still a favorite here, and no wonder. With an abundance of blooms, averaging three inches at this season of the year they can afford to "let well enough alone" and grow it so long as it behaves. The Lawson, as everywhere else, does nicely and pays well. Crane is the favorite red, while White Cloud and Flora Hill are the only whites until something better takes their place.

Mrs. E. Suder, as usual, is kept busy

with decorative work of one sort or another. A glance at her general stock proved interesting. Everything about the place shows the result of good care and good, intelligent work.

Jos. Siegrist has no complaints to make. With a good stock and bright prospects for a good season, he has joined the ranks of the optimists.

George A. Heintz is recuperating at Mt. Clemens. Everything about his establishment is in splendid condition.

Mr. Magee reports business brisk and most encouraging. NOMIS.

ESTABLISHED 1802

THORBURN'S SEEDS

Send for special low prices on
DUTCH HYACINTHS
for forcing or bedding, and
LILIUM LONGIFLORUM.

J.M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

FOR THE BEST

Wild Smilax

that is shipped, write

R. A. LEE, Monroe, Ala.

for quotations. Prices LOW.

Cocos Weddelliana Seed

FRESH AND FINEST QUALITY.

From our own collector. Delivery early 1903. \$7.00 per 1000. \$6.00 per 1000 in 4,000 lots. Special prices on 10,000, 25,000 or 50,000 Seeds.

A. DIMMOCK, 60 Vesey St., N. Y. City.



RAFFIA NATURAL COLORED
VAUGHAN'S SEED STORE,
CHICAGO and NEW YORK.

Strictly New England GROWN SEEDS.

SPECIALTIES—Onion (Southport Globes), Turnip Seed and Sweet Corn, Beet, Parsnip, Carrot, Cabbage. We can answer all questions without finching as to quality and where grown.

The E. B. CLARK CO., Milford, Conn.

BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.

KENNICOTT BROS. CO.

40-42-44 Randolph St., Chicago.

Chicago, Ill., Nov. 1, 1902.—Following are the current prices: **Roses, Maids, Brides, Meteors, Perles**, first quality, 3c to 5c; second quality, 1½c to 2½c. **Liberty**, 4c to 8c. **Chrysanthemums**, 60c to \$1.00; fancy, \$1.50 to \$2.00 per doz. **Carnations**, our selection, \$1.25; Carnations, good to choice, \$1.50 to \$2.00; fancy, \$2.50. **Valley**, 5c. **Violets**, 50c to \$1.00. **American Beauties** run according to stem from 4c to 25c each.

EVERYTHING in SEASON at Chicago price day of shipment.

W. A. HAMMOND,
Richmond, Va.
Wholesale Florist.
Roses, Carnations,
Chrysanthemums, Etc.

WHOLESALE Cut Flowers

Florists' Supplies, Seeds, Etc.
Galax and Leucothoe, Wild Smilax.
Special attention given to shipping orders.
Long distance 'Phones, Main 584 and 748.

J. M. McCullough's Sons
316-318 Walnut St., Cincinnati, O.
Please mention the American Florist when writing.

WM. MURPHY
Grower and Wholesaler of Carnations.

We are now in a Position to ship cut blooms Direct from Greenhouses

Murphy's White Cut Bloom in quantity, the earliest, freest white Carnation to date. 50,000 cuttings sold for Jan. delivery; can handle orders for 50,000 more for same date. \$6 per 100; \$50 per 1000. Discounts on 5,000 to 10,000 lots. Our new address is 130 E. 3rd St., CINCINNATI, OHIO.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Heard among Chicago flower buyers: For all-around Good Clean Flowers

POEHLMANN BROS. CO.

Hold The Lead.

PRICES AND QUALITY ALWAYS RIGHT.

We desire a few more regular customers. We have the stock. Convince yourself of the quality by sending for trial order. In Beauties, Teas and 'Mums we are especially strong. Buy now when stock is plentiful and you won't be "up against it" when stock is scarce. We will take care of you then, as now. Flowers for funeral work at lowest market price.

Some varieties of Chrysanthemum stock plants now ready, only leading commercial varieties, price \$5 00 per 100, with special rate on larger amounts. Let us book your order now. We take better care of it when sold. Have 250 3 and 4-inch Sprenger for sale, \$4.50 per 100.

POEHLMANN BROS. CO.

Greenhouses, Morton Grove, TELEPHONE 35 and 37 Randolph St., Chicago.
Cook Co., Ill. Phone No. 201. Central 3573.

FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)
Write, Wire or Phone the Introducing,
Caldwell The Woodsman Co., Evergreen, Ala.
or their agents: L. J. Kreshover, New York; J. E. Deamul, Chicago; H. Bayersdorfer & Co., Philadelphia; W. E. Kasting, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.

Wild Smilax.

50 pound case.....	\$2.00
35 pound case.....	1.75
25 pound case.....	1.50
15 pound case.....	1.00

Quality the best. Cash from unknown parties.
LONG NEEDLE PINES, per dozen, \$1.00
SABAL PALM LEAVES, per 100, \$1.50.
ALABAMA WILD SMILAX CO., Monroe, Ala.

CUT 'MUMS

In any quantity from \$5 to \$25 per 100.
JOHN WOLF, SAVANNAH, GA.

GALAX LEAVES AND Leucothoe Sprays.

J. G. LOVEN, MONTEZUMA, N. C.

PLACE YOUR NAME.....
and your specialties before the purchasing florists of the entire country by advertising in
SEND ADVT. NOW. THE AMERICAN FLORIST.

Toronto.

TRADE BRISK AND STOCK MOVING SATISFACTORILY.—GOOD MATERIAL EASILY DISPOSED OF.—PERSONAL ITEMS OF VARYING INTEREST.

The excellent condition of business keeps the market from getting overstocked. There are plenty of good chrysanthemums, but roses hold up well. The few bright and mild days have made them a little more plentiful, but with the exception of second-rate stock, they are easily disposed of. Bridesmaid and Bride are in good condition, Liberty has shortened up a bit and Balduin seems to have lost a little of its color. Carnations are improving wonderfully. Some very fine Lawson and Prosperity are on the market. Morning Glory is to be had in quantities, most of the growers having planted this variety rather extensively this season, but they move well.

Jay & Son have about completed alterations. They handle a full line of flowers and there is always enough good stock on the premises to make the place look attractive.

Chas. Tidy & Son have some fine specimen plants of *Cattleya labiata* in the window, and the store is well filled with chrysanthemums.

J. Simmons has been brightening up the exterior of his place. He has a very cosy store and takes a personal pride in having things neat.

Louis I. Vair, of Barrie, has been sending in some very good violets, both single and double, being the best I have seen so far this season.

There seems to be a scarcity of small ferns for dishes. Although there are many seedlings, they are still too small to be of use.

Geo. Hollis has been cutting some good blooms of his unnamed pink seedling chrysanthemum. H. G. D.

UTICA, N. Y.—Peter Crowe has given his own name to the fine adiantum which has hitherto been known as Bardin.

DEFIANCE, O.—Christ Winterich has just completed a large water tank on a forty-foot tower. A hot air pump furnishes power.

CHARLESTON, ILL.—The Pierson-Sefton Company, Jersey City, N. J., has been awarded the contract for the conservatory at the normal school. The cost will be about \$4,000.

BUCKLEY'S October Special

Geraniums Extra strong, rooted cuttings, well-rooted and correctly labeled. Varieties: Jean Viaud, \$2.00 per 100; S. A. Nutt, Alphonse Ricard, Beate Poitevine, E. G. Hill, Frances Perkins, Mue, Jaulin, Mue, Bruant, Meehan, Morton, Gaar, La Favorite, Dutchess of Orleans, \$1.50 per 100; \$12.50 per 1000, in variety.

Verbenas Our 20th Century Collection, 25 new mammoth varieties, all labeled, strong plants from 2 1/4-inch, \$1.50 per 100; \$12.50 per 1000.

Smilax Extra strong, 2 1/4-inch, equal to most 2 1/2-inch, \$1.00 per 100; \$8.00 per 1000.

Asp. Sprengeri Strong, 2 1/2-inch, \$2.00 per 100; 2-inch, \$1.25 per 100; \$10.00 per 1000.

Petunias Ten novelties from Dreer's latest sets, strong R. C. \$1.25 per 100.

Feverfew LITTLE GEM, rooted cuttings, 75 cents per 100.

Marguerites CHRYSANTHEMUM FRUTESCENS, both white and yellow, \$1.00 per 100.

Salvia Two best: St. Louis and Bonfire, 75 cents per 100.

The W. T. Buckley Plant Co., Springfield, Ill.

500,000 VERBENAS THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 50c per 100; \$5 per 1000; \$45 per 10,000. NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR. We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, BLOOMSBURG, PA.

B. & A. SPECIALTIES

AZALEAS, all sizes and varieties. DUTCH, FRENCH, CHINESE and JAPANESE KENTIAS, 2-inch pots to 10 ft. specimens. BULBS in all varieties and at reasonable prices.

ASK FOR FALL CATALOGUE.

BOBBINK & ATKINS, Rutherford, N. J.

50,000 DAHLIA Roots Undivided. For want of storage I will sell at \$4 per 100. Florence Vaughan Canna, \$10 per 1000. 1,000,000 CABBAGE PLANTS ready to plant out or prick in cold frame, only \$2.00 for Nov. or Dec. MARK T. THOMPSON, Rio Vista, Va. Fine Tobacco Dust, \$1.00 per 100; \$15.00 per ton.

Stock 'Mums.

THREE BEST EARLIES:

MONROVIA, Yellow.

Glory of Pacific Pink.

White POLLY ROSE

Also all other commercial varieties at \$5.00 per 100. Cash please.

Carl Hagenburger, W. Mentor, Ohio.

CARNATIONS Rooted Cuttings

Crocker, Dorothy, Nelson and Cressbrook, in pink. Queen Louise, Alba, Lorna and Her Majesty, in white.

Apollo, Estelle and Adonis, in scarlet. Morning Glory and Higinbotham, in light pink. Gaiety and Prosperity, in fancy. Roosevelt, in dark crimson.

I will be very glad to estimate on your orders large or small.

Bone Meal, just the high grade you need for Carnations at \$3.50 per 200 lb. bag or \$32.50 per ton.

ALBERT M. HERR, LANCASTER, PA.

CARNATION PLANTS.

JOOST, strong, field-grown, No. 1 \$3.00; No. 2, \$2.00. HILL, No. 2 \$2.00.

VINCA VAR., strong, field-grown, \$3.00 per 100.

BEGONIA Rex, 4-in., 8c; 3-in., 5c. Cash or C.O.D. Whittet & Co., Lowell, Mass., write: "Thanks for first-class plants shipped promptly."

H. DANN & SON, Westfield, N. Y.

CARNATIONS Field-Grown Plants

NORWAY, extra fine, \$7.00 per 100; \$60 per 1000. GENEVIEVE LORD, 6.00 per 100; 50 per 1000

H. WEBER & SONS, OAKLAND, MD.

Stock Plants of

'MUMS,

Early varieties, ready to send out.

GEO. A. KUHL, PEKIN, ILL.

JOSEPH HEACOCK,

WYNCOTE, PA.

GROWER ARECA LUTESCENS,

...OF... KENTIA BELMOREANA,

COCOS WEDDELIANA.

Surplus Stock.

We have a small surplus stock of Holland Bulbs. We quote prices that are below cost to move them quickly. Send your orders at once, making remittance with order; if we are unable to fill will refund money. Make second choice if possible.

	100	1000
7,000 Tulips, extra superfine mixed	\$.40	\$3.50
3,000 Hyacinths, Dutch Romans	.75	7.00
500 Hyacinths, Czar Peter	2.50	
500 Hyacinths, Baroness Van Thuyll	2.50	
500 Hyacinths, Norma	2.50	
500 Hyacinths, Grand Maitre	2.50	
400 Hyacinths, Gertrude	2.50	
4,000 Hyacinths, finest single mixed	2.00	17.50
5,000 Crocuses, finest mixed	.75	
3,000 Crocuses, yellow	1.00	
4,000 Crocuses, white	1.00	
3,000 Crocuses, blue and purple	1.00	
2,500 Crocuses, mammoth yellow	.30	2.50
500 Dbl. Narcissus, Orange Phoenix	.60	5.00
300 Dbl. Narcissus, Incomparable	.35	
400 Sgl. Narcissus, Bicolor Empress	1.00	9.00
300 Sgl. Narcissus, Princes	.35	
450 Sgl. Narcissus, Bicolor Horsfieldi	1.00	9.00
300 Sgl. Narcissus, Trumpet Major	.70	
200 Sgl. Narcissus, Stella	.35	
Sgl. Narcissus, finest mixed	.60	5.50
3,000 Oxalis, finest mixed	.30	2.50
2,000 Star Drops	.50	4.00
3,000 Star of Bethlehem	.25	2.00
2,000 Grape Hyacinths	.30	2.50
500 Primus	.40	3.50
2,000 Ixias	.20	1.25
3,000 Spanish Iris	.20	1.00
900 Single Jonquils, sweet scented	.25	2.00
1,000 Glory of the Snow	.40	3.50

THE PAGE SEED CO. Greene, N. Y.

Please mention the American Florist when writing.

We have the largest stock of

ARAUCARIA EXCELSA

in the country, May importation, raised from top cuttings only.

5-inch pots, 3 tiers, 10 inches and above... \$.50
5 1/2-inch pots, 12 to 14 inches... .60 to .75
6-inch pots, 15 to 18 inches... .75 to 1.00
Specimen... 1.25

KENTIA FORSTERIANA and BELMOREANA, 5 1/2 to 6-in. pots, 25 to 30 inches high... .75

FICUS ELASTICA, 5 1/2 to 6-in., 18 to 24 inches high, from \$4.00 to \$5.00 per doz.

BOSTON FERNS, 6-inch pots... .40
Cash with order please. To save express mention if pots to be taken off.

GODFREY ASCHMANN,

WHOLESALE GROWER AND IMPORTER OF POT PLANTS,

1012 Ontario Street, PHILADELPHIA, PA.

Please mention the American Florist when writing.

Auction! Auction!

BY ORDER OF THE UNITED STATES DISTRICT COURT WE WILL ON

Wednesday, Nov. 5, 1902, at 10 O'clock A. M.

AT 2045 TO 2049 CLARENDON AVENUE,

Sell at public auction all assets belonging to the estate of **WALTER RETZER**, wholesale grower and importer of tropical and decorative plants, invoicing over \$50,000, comprising over 125,000 plants, consisting of

PALMS—Over 25,000 Kentia, Latania, Areca Lutescens, from 3 to 12-inch.

FERNS—Over 15,000 Bostons, Asparagus Plumosus, Asparagus Sprengeri, Adiantum, 50,000 2-inch Ferns for pans. **1,500 AZALEAS.**

RUBBER Plants, over 5,000. Dracaena Indivisa, Terminalis; Pandanus, Cycas.

CROTONS, Rhododendrons, Araucarias, Begonias, Vincas, Callas, etc.

ROSES—Over 15,000 Roses in American Beauties, Brides, Maids, Meteors, Golden Gate, Liberty and about 50,000 Assorted Plants, all good salable stock, suitable for growing purposes.

All of the above stock will be sold in lots to the highest bidder for cash. A deposit of 25 per cent will be required from each purchaser. No checks, unless certified, will be accepted. The above stock is in first-class condition and will be offered in small lots to suit purchasers, offering special opportunities for the florists and small growers to obtain desired quantities at public sale. Horses, wagons, cash registers and fixtures.

Stock will be on exhibition and can be inspected Sunday, Monday, Tuesday and Wednesday, the day of sale.

HENRY L. WILSON, Receiver in Bankruptcy,
614 FIRST NATIONAL BANK BLDG., CHICAGO.

SAMUEL L. WINTERNITZ & CO., Auctioneers.



JUST ARRIVED, SPECIAL IMPORTATION AZALEAS.

All the best sorts, such as Bernard Andrea Alba, Deutsche Perle, Vervaeana, Simon Mardner, Mme. Van der Cruyssen, Virginiana, Empress of India, and many others.

PRICE IN ASSORTED LOTS, FOR EARLY ORDERS:

10 to 12-inch crowns, bushy plants.....	\$40.00 per 100
12 to 14-inch crowns, bushy plants.....	50.00 per 100
14 to 16-inch crowns, bushy plants.....	60.00 per 100
16 to 18-inch crowns, bushy plants.....	\$12.00 per doz.
18 to 20-inch crowns, bushy plants.....	25.00 per doz.
20 to 22-inch crowns, bushy plants.....	30.00 per doz.
22 to 24-inch crowns, bushy plants.....	36.00 per doz.

We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

BOSTON FERNS.

Extra choice lot of compact, bushy, pot-grown plants.

2½-inch pots.....	\$5.00 per 100	5-inch pans.....	\$40.00 per 100
3-inch pots.....	10.00 per 100	6-inch pans.....	9.00 per doz.
4-inch pots.....	25.00 per 100	7-inch pans.....	12.00 per doz.

VAUGHAN'S SEED STORE, 14 Barclay Street, New York.
84-86 Randolph St., Chicago.
GREENHOUSES, WESTERN SPRINGS, ILL.

Orchids!

Arrived in fine condition: **CATTLEYA TRIANÆ.** The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

American Florists Always do business,
Week days and every day
Sundays and holidays,
All over the country,
At home and abroad.

CYCLAMEN

PERSICUM SPLENDENS GIGANTEUM.

Finest strain in the world, ready for immediate shipment, a splendid stock of plants, well budded, from 3-inch pots, \$6.00 per 100; \$50.00 per 1000; from 3½-inch pots, in bud and bloom, \$10.00 per 100; \$90.00 per 1000.

PAUL MADER, East Stroudsburg, Pa.

ASPARAGUS PLUMOSUS NANUS.

Strong and Bushy, 3-in. pots, per 100, \$5.
TOBACCO STEMS, Fresh and Strong
Bale of 300 pounds, \$1.50.

W. C. BECKERT, Allegheny, Pa.

OUR DIRECTORY FOR 1902 WILL BE MAILED TO YOU PROMPTLY UPON APPLICATION. PRICE TWO DOLLARS.

Albany.

SEASON OPENS WITH GOOD TRADE BUT EFFECT OF CAMPAIGN NOW APPARENT.—WEDDING DECORATIONS.—PERSONAL.

The season opened briskly, with numerous orders for weddings and social functions. The approach of the fall election is, however, quite noticeable and a falling off in business is reported for this week. H. G. Eyres had charge of the decorations last week for the Parker-Hun wedding. The ceremony took place in St. Peter's church. The church was decorated with autumn foliage, white and yellow chrysanthemms and palms. The home of the bride, where a reception was held after the ceremony, was beautifully decorated in white and green, the material used being white and pink chrysanthemms and Asparagus plumosus.

H. G. Eyres is one of the judges of exhibits for the New York flower show now in progress in Madison Square Garden. Mr. Eyres will leave for New York on November 3.

Samuel Goldring, who retired from business in Albany about two years ago, has lately established himself at 11 S. Pearl street, where he expects to build up a good trade.

W. C. King & Company have renovated their store on North Pearl street throughout. The largest plate glass window of any florist in town is now theirs.

Whittle Brothers have stocked four new houses, each 150 feet in length, with Sunrise, Pres. Carnot, Bride and Bridesmaid roses. D.

Houston, Tex.

W. W. Westgate has returned from Seattle, where he has been since the great September storm which damaged his place so severely. He has bought an interest in the Houston Nursery Company and the name has been changed to the Houston Seed and Nursery Company. S. T. Middleton continues as secretary and treasurer while Mr. Westgate becomes president and general manager. They will do a general plant, seed and nursery business and may add cut flowers later. Mr. Westgate's mother was in the retail flower business here for many years. She died about a year ago. Word reached here last week that L. D. False, who was also in the business here some time ago, died suddenly of heart disease while walking on the street at Raywood, Tex.

Mushroom Spawn



Frequent importations from England. Always fresh and lively.

CARNATIONS

Strong, healthy plants, grown on high land.

Portia	100	1000	Eldorado	100	1000
Scott	4.00	35.00	Daybreak	4.00	35.00

J. J. Styer, Concordville, Pa.

Roses and Carnations

3,000 strong 3-in. Brides, Meteors and Golden Gates, \$4 per 100; \$30 per 1000. 2-inch Brides and Maids, \$2 per 100; \$18 per 1000. Fine healthy plants.

500 Wm. Scott, extra fine, 12 to 15 shoots, protected from frost in frames, \$4.00 per 100.

4-in. Asparagus Plumosus, \$15 per 100. Some good 4-in. hot water pipe at \$8 per 100.

W. H. GULLETT & SONS, LINCOLN, ILL.

CARNATIONS!

FINE, LARGE, HEALTHY FIELD-GROWN PLANTS.

	Per 100	Per 1000		Per 100	Per 1000
White Cloud	\$6.00	\$50.00	Marquis	\$5.00	\$40.00
Norway	6.00	50.00	Guardian Angel	5.00	45.00
			Prosperity	5.00	40.00

WIETOR BROS., 51 Wabash Ave., Chicago.

Unrooted CARNATION CUTTINGS or Pips

These are healthy, short jointed, A No. 1 side cuttings.

	Per 100	Per 1000		Per 100	Per 1000
QUEEN LOUISE, white	\$1.00	\$7.50	ARGYLE, pink	.60	\$5.00
MERMAID, a fine salmon pink	1.00	7.50	JOOST, pink	.60	5.00
GENEVIEVE LORD, light pink	.60	5.00	ELDORADO, yellow	.60	5.00
EVANSTON, red	.60	5.00	GEN. MACEO, crimson	.60	5.00
TIDAL WAVE, dark pink	.60	5.00	EGYPT, maroon	.60	5.00

Express prepaid by us at above figures.

CALIFORNIA CARNATION CO., LOOMIS, CAL.

CARNATIONS

Field-Grown Plants.

	Per 100	Per 1000
PROSPERITY	\$3.00	\$25.00
MARQUIS	3.00	25.00
EVANSTON	3.00	25.00
JOOST	3.00	25.00

Strong, Healthy Plants.

GEO. REINBERG, 51 Wabash Ave. CHICAGO.

Unrooted Carnation

PIPS READY. Per 100 Per 1000

Gov. Wolcott, white, 1902	\$2.00	\$18.00
Alba, white, 1902	2.00	18.00
Golden Beauty, yellow, 1902	2.25	20.00
Viola, variegated, 1902	5.00	40.00
Dorothy, pink	1.50	13.00
Gov. Roosevelt, crimson	1.25	10.00
Norway, white	1.00	8.00
Eldorado, yellow	.50	5.00
Gen. Maceo, maroon	.50	5.00

Asparagus Sprengeri from flats, \$1.50 per 100; \$7.50 per 1000. 25 at 100 rates, 250 at 1000 rates. Cash. Express prepaid.

WESTERN CARNATION CO. E. N. FANCHER, Mgr. LOOMIS, CAL.

Please mention the American Florist when writing.

CARNATIONS

\$25.00 per 1000 to close these large healthy Carnations—The Marquis, G. Lord and Frances Joost. Order quick if wanted.

Albert H. Brown Co., Westboro, Mass.

ASPARAGUS PLUMOSUS

4-inch, \$10.00 per 100; 3-inch, \$6.00 per 100.

H. HILLS, Elkhart, Ind.

Please mention the American Florist when writing.

LILLIAN POND

The Largest and Best White.

A pure white flower averaging 3 1/2 inches on long stiff stems. A continuous, free and early variety with a flower perfectly formed and very fragrant.

A Money Maker for You All.

Orders filled strictly in rotation, delivery commences January 1st, 1903.

PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00.

S. J. REUTER, WESTERLY, R. I.

Miss Louise

Faber

The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink shade, similar to a well colored Bridesmaid rose and average 3 to 3 1/2 INCHES. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for FEBRUARY delivery from now on.

FICK & FABER, SAN MATEO, CAL.

HERRON...

Carnation Grower,

OLEAN, N. Y.

Please mention the American Florist when writing.

FIELD GROWN Carnations

150 The Marquis, 200 Gen. Gomez, 200 Ethel Crocker, 200 Daybreak, 400 Frances Joost, 100 White Cloud, 100 Bon Ton, \$5 per 100.

FARQUHAR VIOLETS, 2 1/2-in. pots, \$3.00 per 100.

Cash with order.

CHAS. H. GREEN, Spencer, Mass.

ASPARAGUS SPRENGERI

Field-Grown. These plants have short tops and extra strong root; are cheaper and give quicker returns than pot-grown stock; \$1.00, \$6.00 and \$8.00 per 100, according to size.

ADIANTUM CAPILLUS VENERIS—One of the best for fern dishes and other decorative work, 2½-inch pots. \$3.00

ADIANTUM CAPILLUS VENERIS IMBRICATUM—Excellent for filling fern dishes. Wide pinnae like Farleyense, 2½-inch pots. 5.00

ANEMONES—Japanese Alba. 6.00
Elegantissima, a new variety of exceptional merit. 10.00

Lady Ardilaun. 8.00
Queen Charlotte. 8.00
Rosa Superba. 12.00

BEGONIA INCARNATA—The most useful Begonia for winter flowering, 3-inch pots. 8.00

CAREX JAP VARIEGATA—A useful decorative grass, 2½-inch pots. 2.50

CINERARIA STELLATA—From 2 to 4 feet high. The plant makes a most effective display, either as a specimen or in groups, 3-in. pots 5.00

CYPERUS ALTERNIFOLIUS—Bushy outdoor-grown plants, in 3-inch pots, extra strong, ready for a shift. 4.00

NEPHROLEPIS OAVALLIOIDES FURCANS—We consider this to be the handsomest fern in cultivation. Has no equal as a Christmas plant. Have a fine lot in 5 and 6-in. pans, \$5.00 and \$6.00 per dozen.

PHALARIS ARUNDOINACEA VARIEGATA—Of the variety which retains its bright variegations of white and green throughout the season. Can highly recommend it as an effective border plant. Large field-grown clumps. 6.00

PRIMROSES—(Chinese) separate colors, white, light pink, scarlet and blue. From the finest imported seed, 3-inch pots. 5.00

PTERIS CRETICA ALBO-LINEATA—Variegated; very useful and pretty, 2½-inch pots. 3.00

PYRETHRUM (Hybridum)—Gives the best of satisfaction both as to variety of color and freedom of bloom; the colors range from pure white to deep blue; field-grown. 8.00

TRITOMA UVARIA GRANDIFLORA—An old standby; strong divisions. 5.00

VALERIANA OFFICINALIS (Garden Heliotrope)—Strong divisions. 5.00

VINCA MAJOR VARIEGATA—Large, field-grown clumps with 12 to 20 runners; a good seller during the winter. 8.00

VIOLETS, California—Field-grown, 2nd size. 3.00

NATHAN SMITH & SON, Adrian, Mich.

Violets and Hardy Pinks

STRONG FIELD CLUMPS.
California and Single Russian. \$3.00 per 100
Admiral Avelon and La France. 5.00 per 100
Comet, Souv. de Sale, May, Gertrude, Earl of Carlisle. 6.00 per 100

The Conard & Jones Co., West Grove Pa.

Cyclamens

Finest strain, strong, bushy plants, well set with buds, in 4 and 4½-inch pots, ready now for a shift, \$25.00 per 100.

Boston Ferns Beautiful specimens in 7-inch pans, three plants to each. These are money makers. \$9.00 per doz. Cash or C. O. D.

Jno. A. Keller, Florist, Lexington, Ky.

100,000 PANSIES.

Giant International, grown from the most expensive collections of seed from home and abroad, transplanted, fine, bushy, most in bud and bloom, by express, \$1.00 per 100; \$8.00 per 1000. From seedbed, \$5.00 per 1000. **Giant Pansies**, from finest American-grown seed, field-grown seedlings, 50c per 100, by mail; \$3.00 per 1000, by express. Also **Daisies** and rooted cuttings of bedding plants. **LUDWIG MOSBAEK, 8500 ANTHONY AVE., SOUTH CHICAGO, ILL.**

MUST BE SOLD.

Per 100
5000 CALIFORNIA VIOLET CLUMPS, fine. \$3.00
5000 SPIRAEA ANTHONY WATERER, 2 feet, 2 year, old, for Easter forcing. 7.00

VINCA MAJOR VAR and TRITOMA UVARIA, strong, field plants. 5.00

BOSTON FERN, from bench, fit for 5-in. pots, 12¢ SEND FOR LIST. Cash please.

BENJAMIN CONNELL, West Grove, Pa.

CYCLAMENS.

Well set with buds, 4-inch, \$12.00; 5-inch, \$18.00 and \$25.00.

CINERARIA, 3-inch strong, frame grown, \$5.00.
PRIMROSES, 4-inch, \$8.00.
Field-grown ASPARAGUS SPRENGERI, \$3.00, \$5.00, \$7.00 per 100.

Christ, Winterich, Defiance, Ohio

PALMS, FICUS, AZALEAS, Etc.

PALMS.

KENTIA BELMOREANA, 2½-in. pots, \$6.00 per 100; \$50.00 per 1000.

KENTIA BELMOREANA, 3-in. pots, \$12.00 per 100; \$100.00 per 1000.

KENTIA BELMOREANA, 24 to 28 inches, fine bushy plants, \$1.25 each; \$15.00 per doz.

KENTIA BELMOREANA, 30 to 32 inches, perfect condition, \$1.75 each; \$20 per doz.

CYCAS REVOLUTA, 60c, \$1.00, \$1.25 \$1.50 and \$2.00 each.

AZALEAS, 10 to 12-in. crowns, \$35 per 100.
" 12 to 14-in. crowns, \$45 per 100.
" 14 to 15-in. crowns, \$55 per 100.

FICUS, TRUE BELGIAN VARIETY.

4-in. pots, heavy strong stock, \$25 per 100.
4-in. pots, lighter plants, \$15 per 100.

BOSTON FERNS, 2½-in. pot, \$4.00 per 100.

PRIMULA CHINENSIS, 2½-in. pots, \$2.50 per 100.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.



ARECA LUTESCENS, per doz.—2½-inch, 75c; 3, \$1; 3½, \$2; 4, \$3.
KENTIA BELMOREANA, per doz.—2½-inch, \$1.50; 3-inch, \$2; 3½-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20; 6-inch, \$18.
KENTIA FORSTERIANA, per doz.—2½-inch, \$1.50; 3-inch, \$2.00; 3½-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20.
LATANIA BORBONICA, per doz.—2½-in., 60c; 3, \$1; 6, \$7.20; 7, \$10.
PANDANUS VEITCHII, per doz.—5-in., \$12; 6 in., \$18; 8-in., \$42.
PANDANUS UTILIS, 4-in., \$3 per doz.
NEPHROLEPIS BOSTONIENSIS, per doz.—5-in., \$3; 6-in., \$6; 7-in., \$9; 8-in., \$12; 9-in., \$18; 10-in., \$24.
ASPARAGUS PLUMOSUS NANUS, per 100—2-in., \$4; 3-in., \$8; 4, \$12.
ASPARAGUS SPRENGERI, per 100—4-inch, \$12.
PHOENIX CANARIENSIS, 6-inch, \$6 per doz.
SEAFORTHIA ELEGANS, 6-inch, \$5 per doz.
DRAECAENA INDIVISA, 4-in., \$2; 5-in., \$3; 6, \$5; strong, \$6 per doz.
ADIANIUM, 2 in., \$4; 3-in., \$8 per 100. Small ferns for dishes \$3 per 100; \$25 per 1000.
FERN BALLS, well furnished with leaves, \$3 to \$5 per doz.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

Cut Gladiolus Spikes

Write for prices and particulars, stating your requirements.

ARTHUR COWEE, "Meadowdale Farm," Long Dist. 'Phone, BERLIN, N. Y.
U. S. Representative and Grower of GROFF'S HYBRIDS.

Watch this space for bulb advertisement later.

The COTTAGE GARDENS, QUEENS, L. I.

SEND FOR PRICE LIST OF
Paeonias, Herbaceous Plants, Phlox, Azaleas, Specimen Trees and Shrubs.

Pelargoniums

Rooted Cuttings, \$2.25 per 100, prepaid.
All good named varieties. Write

S. D. BRANT, Clay Center, Kan.

VIOLETS Lady Campbell and Swanley White, 3-in. pots, \$30.00 per 1000.

Chrysanthemum stock J. S. Kalb, Bonafant, Ivory. White and Yellow Robinson and Col Appleton, at \$6.00 per 100.

Carnations sold except Daybreak. White Daybreak, Mine, Chapman and Guardian Angel.

CRABB & HUNTER, GRAND RAPIDS, MICH.
Please mention the American Florist when writing.

Ericas, Palms

Flowering Plants and Bay Trees.
Cut blooms of **LILY OF THE VALLEY** at all seasons, \$3 and \$4.00 per 100.
Write for my Wholesale Catalogue.

ANTON SCHULTHEIS, College Point, N. Y.

Orders booked now—delivery in September—for my Nephrolepis Fern

"ANNA FOSTER"

Small plants, \$25.00 per 100; larger plants prices on application.
BOSTON FERN now ready at \$25 and \$50 per 100.

L. H. FOSTER, 45 King St., Dorchester, Mass.

Chicago Carnation Co.

Joliet, Illinois.

Cincinnati.

ROSES A GREAT GLUT.—THREE-FOURTHS RECEIPTS IMMOVABLE.—GOOD CHRYSANTHEMUMS FROM INDIANA.

Such a glut of roses as we experienced the past week has never been known in this market. With bright, warm weather, not much business and roses coming in by the thousands, it is pretty hard to move one-fourth of the stock received. To add to the misery some of the Fourth street retailers are said to have received boxes of roses from Chicago free of all charges, which is not at all encouraging for the local wholesalers. The weather, however, changed yesterday and it is dark and gloomy and growing cooler. We all hope that it will continue so for several days, to shorten the supply.

The E. G. Hill Company is shipping some very good chrysanthemums to this market. They sell well but at about twenty per cent decrease in price from last year; \$2.50 per dozen is about the limit this season. This firm also had a fine chrysanthemum before the committee last Saturday, called Mlle. Marie Liger. It is an immense pink on a good stem and will do for either commercial or exhibition purposes.

D.

Minneapolis.

STOCK NOW EQUAL TO ALL DEMANDS.—TEA ROSES MOVE SLOWLY.—WHITE CARNATIONS WANTED.—VARIOUS TRADE NOTES.

The weather has been somewhat unfavorable for social functions and so trade has continued along at the usual pace. Flowers are sufficient to meet demands. Roses, especially, have been very plentiful, although Meteor and Liberty are still limited. Beauties of good quality can be secured at all times. White carnations are much called for and the price is a little higher than for colors. Violets appear on the market in goodly numbers. Major Bonnaffon and white and pink Ivory are the chrysanthemums most frequently seen. Last week there was a shortage, but the cut is increasing so that supply will soon be heavy. The Ivory rose is observed in market.

John Monson, of the Minneapolis Floral Company, is cutting large quantities of Meteor and Liberty with short stems, which find ready sale on the Greeks' stands.

A. S. Rice has returned from Chicago and is on the sick list for a few days.

Jas. Lynes, of the New Store, reports trade to be improving steadily.

C. F. R.

Primroses

CHINESE, single, mixed, 2 1/4-in. pots.....\$1.50
 ASP. PLUMOSUS, 2 1/4-inch pots..... 3.00
 GERANIUMS, 10 varieties, 2-inch pots..... 2.50
 PANSY PLANTS..... .60

CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

Please mention the American Florist when writing.

GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs....

\$2.00 Per Year. Sample Copies Free.

Liberal terms to florists who take subscriptions.

THE GARDENING CO., Chicago, Ill., U.S.A.

Herbaceous PÆONIAS.

Kelway's Choice Double Varieties,

All strong roots, two and three eyes each, strictly true to name and unmixed.

\$10.00 per 100, except as noted.

- ABEL DE PUJOL, lilac rose.
- AMBROSE VERSCHAFFELT, rose.
- BEAUTE DE VILLECANTE, purplish-rose, pink center.
- BRIDESMAID, light pink.
- BUYCKII, flesh-rose, 12c.
- CHAS. DE BELLEVEY, purple, shaded deeper violet.
- DARK CRIMSON, the popular old crimson variety, 8c.
- DON JUAN, purple.
- ECLAIR, light pink, 12c.
- EUBOLES, pale rose, 12c.
- HESPERIDES, white, flesh guard petals.
- HUMEL, rosy-pink, very large and full, extra fine; late.
- LUCY MALLARD, rosy-carmine, full.

- MME. CALOT, pure white, tinted rose, 12c.
- MAXENTIUS, crimson.
- MEDUSA, rosy-lilac.
- MILLE VILLANT, blush, yellow center, with red tips, 12c.
- MODESTE, rosy-purple, crimson center.
- PRINCE IMPERIAL, purple.
- PRINCE PROSPER, deep crimson.
- PSYCHE, flesh.
- PURITAIN, light pink.
- SOUV. DE L'EXPOSITION UNIVERSELLE, pink.
- THISBE, delicate flesh-pink, 12c.
- VESTICUS, pink.
- VICTOIRE TRICOLOR, rose, rose and white center.
- VIOLACEA PLENA, purple, short petals.

- 25 Other Choice Kelway Varieties of Double Paeonias..... \$10.00 per 100
- Kelway's Double Paeonias, mixed..... 6.00 per 100
- Kelway's Choice Single Paeonias, named..... 15.00 per 100

J. T. Lovett, Little Silver, N.J.

\$2.50 PER 1000.

This offer good 2 weeks only; to make room for driveway; bargain.

GIANT PANSIES, fine stocky plants, in variety equal to any.

FORGET-ME-NOTS, in mixture.

DOUBLE DAISIES—Snowball, Giant, Long-fellow.

Satisfaction guaranteed. CASH.

BYER BROS, Chambersburg, Pa.

GERANIUMS ROOTED CUTTINGS.

S. A. Nutt, Heteranthe and Buchner, at \$1.25 per 100; \$10.00 per 1000.
 Perkins, Poitevine, Landry and Riccard, at \$2.00 per 100; \$15.00 per 1000.
 Viaud, the best pink bedder, and Castellane, the best red bedder, at \$2.50 per 100; \$20.00 per 1000.
 I have the above in any quantity and will sell 25¢ at 1000 rates and quote special prices on lots of 10,000 or over.
 Bonnot, Castris, Acteon, Harrison, Jaulin, La Favorite and La Pilot, by the 100 only at \$1.50 per 100.

I have a high grade bone meal for Florists' use at \$3.50 per 200 lb. bag or \$32.50 per ton.

ALBERT M. HERR, LANCASTER, PA.

ASPARAGUS Plumosus Nanus

Extra fine 2 1/4-inch, better than some 3-inch, \$3.50 per 100; \$30 per 1000. Extra fine 3-inch, \$5.00 per 100. Sample of either size, 10 cents free by mail. CASH PLEASE.

H. TONG, Wholesale Grower, Ashtabula, O.

Cannas.

FALL DELIVERY—Italia, Austria, A. Bouvier, Alsace, Burbank, \$1.50 per 100; \$12.00 per 1000. Sample bulbs sent prepaid for 25c. Write us.

MANGELSDORF BROS. CO, Atchison, Kan.

WE NOW OFFER

"Chemicals"

for making LIQUID COMPOST. Dry powders all soluble in water. Composts cost less than 1/20 per gal. Correspondence invited.

EASTERN CHEMICAL COMPANY, 620 Atlantic Ave., Boston.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Ficus Elastica

Latania Borbonica and Kentias 3 and 4 in. pots

I have a fine stock of the above which is offered to the trade at a bargain. If you have room a large profit can be made on these plants in a short time. Write for prices; they are too low to quote here.

W. W. COLES, KOKOMO, IND.

FERNS.

2 1/2-inch Mixed Ferns..... \$3.00 per 100
 2 1/2-inch Dracena Indivisa..... 3.00 per 100
 25 Mixed Ferns, prepaid..... 1.00

WM. A. CLARK & SON 44 Boyd Street, Watertown, N. Y.

Please mention the American Florist when writing.

ASPARAGUS SPRENGERI.

3-inch pots, nice plants, \$4.50 per hundred.

J. B. HEISS, THE EXOTIC NURSERIES, DAYTON, OHIO.

SPECIALTIES

ROSES, from 3-inch pots. In Best
 CARNATIONS, for all delivery, Varieties
 CHRYSANTHEMUMS,
 SMILAX, VIOLETS.

Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.

S. S. SKIDELSKY,

708 North 16th St., Philadelphia, Pa.

Please mention the American Florist when writing.

PURE BONE MEAL

For Florists' and Seedsmen's Use.

We guarantee this Bone Meal to be Unacidulated and free from Adulterations. Prices and terms quoted on application.

You can make money and at the same time you can do your customers a favor by offering

Walker's Excelsior PLANT FOOD

Put up in neat packages for retail trade, in 15c and 25c packages. This allows you a handsome profit. Leading Florists use it in their soil and we furnish it in bulk for florists' use. We also manufacture the JAPANESE PALM FOOD for Palms, Rubber Plants and Ferns.

FLOWER CITY PLANT FOOD CO.
ROCHESTER, N. Y.

TO KILL ALL Greenhouse Bugs USE "NICOTICIDE"

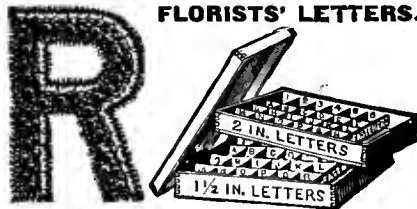
Clean and harmless as Fumigant or Spr., Ask your seedsman for it or write to

The Tobacco Warehousing and Trading Co.,

1000 Magnolia Ave., Louisville, Ky

Boston Florist Letter Co.

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box neatly stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.
Script Letters, 1/4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hawley St., BOSTON, MASS.

NOTICE.

Mr. H. Schwartz, Florist, Galveston, Tex., writes:

"I have used Bollene; it killed all insects in my hothouse and garden. I found it the safest and best remedy for scale insects, cut worms, lice, spiders, caterpillars, ants, grasshoppers, etc., and can highly recommend it. It does not injure the flowers or plants."

Bollene is a concentrated insecticide. One quart will make 50 quarts of spraying solution.

PRICE: Per quart, \$1.00; per gallon, \$2.25; in 5 gallon lots or over, \$2.00 per gallon.

THE BOLLENE MFG. CO., Galveston, Texas.

CHRISTMAS BELLS



ILL soon be ringing, whether we get coal or not. Buy your stock of scarlet immortal bells now.

They are beautiful, uniform and perfect. There's money in handling them at present prices.

We have a new line of Straw Baskets made especially for our American Trade.

Wax Roses and other Continental Novelties. A very attractive stock selected by our Mr. H. B., while in Europe.

New Immortelles are on the way and first shipment due to arrive now.

H. Bayersdorfer & Co.

50-56 NORTH FOURTH STREET,
PHILADELPHIA, PA.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25. Manufactured by
W. J. COWEE, BERLIN, N. Y.
Sample Free. For sale by dealers.

LEADING Florists' Supply House M. RICE & CO.

Importers and Manufacturers,
918 Filbert Street, PHILADELPHIA, PA.
Catalogue for the asking.

Please mention the American Florist when writing

HEADQUARTERS FOR HORTICULTURAL SUPPLIES Of Every Description.

When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

DUNNE & CO., 54 W. 30th St., New York.
Telephone Call, 1700 Madison Square.

.....If you.....

Business Methods

are right you can make a profit on an advertisement here.

HORTICULTURAL ENGRAVING & PRINTING

To Increase

our supply of up-to-date stock cuts we will make engravings of any subject desired and sell you electrotypes for thirty-five cents per square inch. This work will be our finest grade of wood engraving, giving the same quality that characterizes our work. Send us photographs, or sketches of your needs or the objects and we will make the engravings direct from them. We can supply at short notice and at list price any

Stock Electrotypes

sold by any house if you will send us the number, print or description.

For the Seedsman

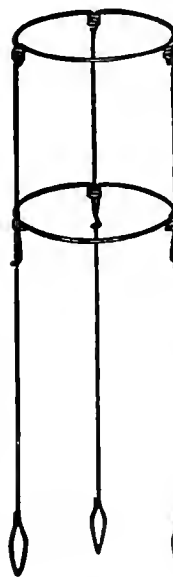
who desires exclusive engravings we desire to say that we shall still adhere to our principle of protection and shall give his work the same careful attention as in former years. We make every style of engraving and do printing of every description to help the horticulturist to place his products before the buying public in an attractive manner.

JAS. M. BRYANT.
706 CHESTNUT STREET
PHILADELPHIA PA.

NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn, N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

The Model Extension Carnation Support.



Flushing, Long Island, Dec. 11th, 1901.

MR. THERON N. PARKER, Brooklyn, N. Y.

Dear Sir:—I have used your Wire Carnation Support the last two years, in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.

Very truly,
A. L. THORNE,
La Fayette, Ind.,
July 8th, 1902.

MR. THERON N. PARKER,
Harrison, N. J.

Dear Sir:—After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season.

We were much pleased with the simplicity, strength and neat appearance of the support.

Yours truly
F. DORNER & SONS Co.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.

Please mention the American Florist when writing

Richmond, Ind.

CLUB NOW MEETS AT VARIOUS GREENHOUSE ESTABLISHMENTS.—INTEREST FOSTERED.—SHOWS PLANNED.—NOTES OF DOINGS OF THE GROWERS.—PERSONAL AND TRADE MATTERS.

The Richmond Florists' Club met in regular session October 19, every floral establishment in the city being represented. The meeting was at the greenhouses of Chessman & Schepman, the club having decided that the future meetings shall be at some one of the greenhouses, and if this meeting was a criterion, it was an excellent move. The club contemplates holding a carnation show locally some time this season and also the holding of a chrysanthemum show one year from now. Committees were appointed. Adjournment was taken to the greenhouses of the E. G. Hill Company, on the evening of November 21, when the election of officers will take place. After adjournment cigars and pipes and several decks of cards were forthcoming and the boys enjoyed themselves in a social way till a late hour, all agreeing that it was a decided improvement in the manner of holding the meetings.

At Fulle Brothers' the boys are excavating a pit in which to place the new boiler, which they found it necessary to put in. This and other repairs have kept them so constantly employed that they have not given their stock as much time as they would have liked, but from now on they will be able to bring it up to its usual good form.

On Wednesday, October 8, Benj. H. Schroeder and Miss Irene Smithmeyer were married at St. Andrews Church, which had been beautifully decorated. The groom is a very successful grower and is foreman for Chessman & Schepman.

G. R. Gause & Company have some fine Beauty and Liberty and a bench of Ethel Crocker carnation that were certainly fine enough for anyone.

Chessman & Schepman, have the old Beach place in good shape. There is a marked improvement in the quality as well as the quantity grown.

E. G. Hill & Company have a novelty in a pink chrysanthemum, Mlle. Marie Liger, that we can all take our hats off to.

At the Gift Floral Company's the visitor finds a well kept place and stock in good condition.

E. T. Grave has some Eaton that would be hard to excel, and their Appleton is immense. H. C. C.

GRAND RAPIDS, MICH.—Crabb & Hunter are preparing to build three Beauty houses 30x300 on their newly acquired property.

LAFAYETTE, IND.—H. Roth now has a range of seven houses and is planning to erect three more in the spring. He grows a general stock for retail trade.

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Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples.....

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American Florist Co.,

CHICAGO.

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WATERPROOF. Corner Lock Style.
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DON'T USE OLD STORE BOXES.

If you have any doubt, send for samples, which speak for themselves.

Size No. 1.	3x4½x16.	\$1.75 per 100;	\$15.00 per 1000
" No. 2.	3x6x18.	2.00	18.00
" No. 3.	4x8x18.	2.40	22.00
" No. 4.	3x6x20.	2.75	25.00
" No. 5.	4x8x22.	3.00	28.00
" No. 6.	4x8x28.	3.75	35.00

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M. A. Glentzer, Florist, Massillon, O.

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TWO SIZES. No. 1. 11¼x12½ and 11 inches high. No. 2. 15x16½ and 15¼ inches high. Are folded up in compact package of about one cubic foot; weight about 18 pounds.

SMALL OR No. 1 SIZE.	LARGE OR No. 2 SIZE.
1 house..... \$ 4.50	1 house..... \$ 6.50
2 houses..... 8.50	2 houses..... 12.50
4 houses..... 16.50	4 houses..... 24.00
6 houses..... 24.00	6 houses..... 34.50

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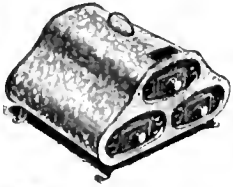
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Two sizes, $\frac{3}{8}$ and $\frac{1}{2}$, 40c a lb.; by mail, 16c extra. 7 lbs. for \$2.50; 15 lbs. for \$5.00, by express.

Over 6,000 lbs. now in use. For sale by seedsmen or CHAS. T. SIEBERT, Sta. B, Pittsburg, Pa.

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In connection with the dismantling of the Pan-American Exposition, we have for sale:

20,000,000 FEET of fine seasoned lumber, practically new, consisting of all sizes of joists, timbers, dressed and matched boards and flooring; also sash and doors.

50,000 FEET of roofing glass,

PIPE.

We are headquarters for pipe. We offer you:

100,000 FEET of 2 to 4-inch wrought iron, lap welded casing. We can furnish this material in three ways: Either with sleeve or jacket couplings, screwed ends and threaded couplings or with expanded cast iron flanges with bolts and nuts.

1,000 000 FEET of standard black wrought iron pipe, size $\frac{3}{8}$ to 12-inch. It is second-hand but has new threads and couplings and is in first-class condition.

1,000 TONS of galvanized wire 9, 10, 11, 12, 13, 14 and 15 gauge.

50,000 FEET of 2, 3 and 4-inch cast-iron soil pipe and fittings.

100,000 FEET of garden hose, $\frac{3}{4}$ and 1-in. 75,000 FEET of cotton rubber-lined fire-hose, (rubber-lined in and outside), ranging in sizes 1 to 2 $\frac{1}{2}$ -inch.

VALVES and fittings of every kind.

BOX COILS for heating purposes.

RADIATORS, new and second-hand.

We also offer the following bargains in

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50 CAST-IRON sectional heaters, capacity from 450 to 5,000 feet.

1 NO. 2 Standard Kroeschell hot water heating boiler.

FOUR 36x10 Horizontal Tubular.

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SIX 48x14 Horizontal Tubular.

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We carry a complete stock of hardware and farm implements, besides plumbing material of every kind.

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New Bedford, Mass.

FROSTS CUT DOWN OUTDOOR STOCK.—FLO-
RISTS ARE GAINERS.—MUCH FUNERAL
WORK.—DEPARTMENT STORES DO PLANT
BUSINESS.

We have had several sharp frosts the
past week and all vegetation is now
brown or black. People who have been
getting along with dahlias, cosmos and
zinnias will now pay the flower stores
and greenhouses a visit in search of some-
thing else in the flower line. Business in
funeral flowers has been booming the
past ten days and the stores have been
crowded with orders. The sale of chrys-
anthemums has also been extra good.
Three of the four stores buy all their
flowers and they have had to send out of
town for a large part of their supply
lately.

The department stores sell more rose
bushes, rubber plants and ferns than all
the florists together. They sell good rose
bushes for 10 cents each.

The coal situation is improving. Hard
coal is \$10, soft coal \$7, with a prospect
of further decline. A. B. H.

Newport, R. I.

NO CHRYSANTHEMUM SHOW HERE THIS
FALL.—COTTAGERS AWAY.—VARIOUS
NOTES OF INTEREST.

The Newport Horticultural Society
will not hold a chrysanthemum exhibi-
tion this fall. The gardeners at the cot-
tages, whose productions have in the
past reached the highest standard, have
not grown chrysanthemums to any
extent because their employers are not
here for the exhibitions; besides chrysan-
themums are not so much sought after
here nowadays as formerly. In fact, it is
doubtful whether this society will again
hold another such show.

There has been a controversy in our
newspaper as to the originator of the
Katharine Duer dahlia. The late Wm.
Allan, for thirty years gardener for W. R.
Travers, was the original owner, grower
and namer of this dahlia, and his son, W.
Allan, is still gardener on the same
grounds.

Hard coal is offered at \$12 per ton but
not much of it. C. J. M.

ATCO, N. J.—The dahlia season came
practically to an end on the night of
October 21, when frost cut down the
stock. The Peacock place turned out not
far from 25,000 blooms a day for the
week or ten days before the frost.



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MANUFACTURERS OF
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Before buying write for prices.
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FULL SIZE AND WIDE BOTTOMS.
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MANUFACTURERS OF HOT BED SASH, AIR DRIED GULF CYPRESS SASH BARS
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BUILDERS of DURABLE and PRACTICAL Greenhouses at a LOW COST.
Our descriptive circular contains valuable information for every florist. Send for it.

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Travelling Representative, U. CUTLER RYERSON, 108 Third Ave., Newark, N. J.



STANDARD FLOWER POTS!

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in., in crate,	\$4.88	120 7-in., in crate,	\$4.20
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1500 2½ " "	6.00	HAND MADE.	
1000 3 " "	5.00	48 9-in., in crate,	\$3.60
800 3½ " "	5.80	48 10 " "	4.80
500 4 " "	4.50	24 11 " "	3.60
320 5 " "	4.51	24 12 " "	4.80
144 6 " "	3.16	6 16 " "	4.50

Seed pans, same price as pots. Send for price
list of Cylinders for Cut Flowers, Hanging Baskets,
Lawn Vases, etc. Ten per cent off for cash with
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color, equal to the best on the market; are 16
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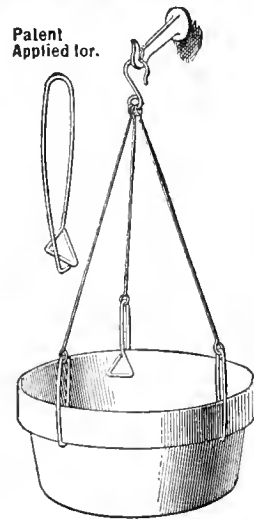
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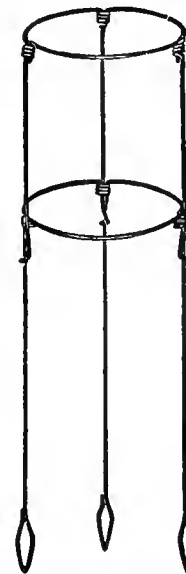
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three circles. En-
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Leading Carnation
growers as the best
support on the mar-
ket.

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SASH,**

NOW READY.

Delivered price anywhere on lots of one dozen or more. Guaranteed in every way.

THREE SIZES.

3 ft. x 6 ft.....3 rows 10-in. glass
3 ft. 3-in. x 6 ft....4 rows 8-in. glass
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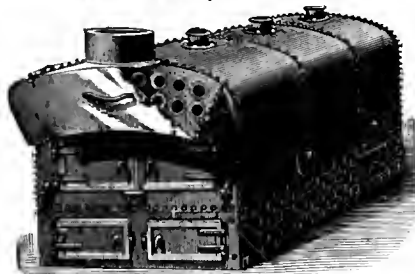
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Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

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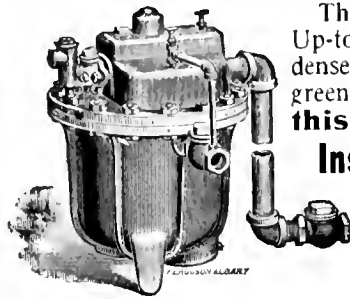
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Insures an Even Temperature.

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Albany Steam Trap Co.

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Estimates furnished for Erecting.

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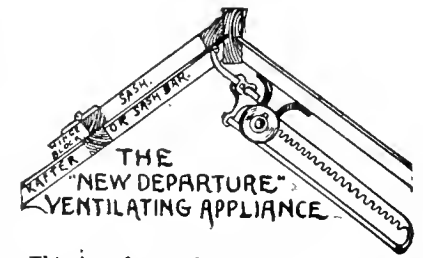
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Always mention the American Florist when writing to advertisers.

Advertisement for 'CROP INSURANCE' and 'GURNEY HEATERS'. Includes an illustration of a heater and text: 'Life insurance is valuable because it guarantees the outcome.', 'GURNEY HEATER MFG. CO.', '74 FRANKLIN STREET, BOSTON. 111 FIFTH AVE., NEW YORK CITY.', 'Western Selling Agents, JAMES B. CLOW & SONS, Franklin and Harrison Street, Chicago, Ill.'

Advertisement for 'GEO. M. GARLAND, IRON GUTTERS AND POSTS'. Includes an illustration of a gutter and text: 'Testimonials from leading growers. Send for Catalogue. GEO. M. GARLAND, Des Plaines, Ill.', 'JOHN C. MONINGER CO., CHICAGO, SELLING AGENTS.'

Large advertisement for 'PIERSON BOILERS'. Includes an illustration of a boiler and text: 'WATER AND STEAM. The Most Complete and Perfect line of Horticultural Boilers OVER 100 SIZES AND STYLES.', 'Iron Frame Conservatories, Palm Houses and Greenhouses, Red Gulf Cypress Greenhouse Material, Ventilating Apparatus, Plans, Specifications and Estimates. Prompt Shipments.', 'THE PIERSON-SEFTON CO. Designers, Manufacturers and Builders of Horticultural Structures. West Side Ave., South, Jersey City, N. J.'

Advertisement for 'Invalid Appliance Co., MANUFACTURERS OF COLUMBIA PLANT TUBS'. Includes an illustration of a plant tub and text: 'The kind that never fall apart.', 'If your seedman doesn't handle them, order of us direct.', 'FACTORY AND OFFICE: 100-102 VEDDER ST., CHICAGO, TELEPHONE NORTH 831.'

THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XIX.

CHICAGO AND NEW YORK, NOVEMBER 8, 1902.

No. 753.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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OFFICERS-ELECT—JOHN BURTON, president; C. C. FOLLWORTH, vice-president; secretary and treasurer as before. Nineteenth annual meeting at Milwaukee, Wis., August, 1903.

THE AMERICAN CARNATION SOCIETY.

Annual convention at Brooklyn, N. Y., February, 1903. ALBERT M. HERR, Lancaster, Pa., secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual convention at Chicago, Ill., November 11-15, 1902. EDWIN LONSDALE, Chestnut Hill, Pa., secretary.

AMERICAN ROSE SOCIETY.

Annual meeting at call of executive committee, LEONARD BARRON, 136 Liberty St., New York, secretary.

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THE EXHIBITIONS.

Kansas City, Mo.

The second annual flower show was ushered in with a blaze of flowers, flags and festoons. Convention Hall is a thing of beauty once seen never to be forgotten. Upon entering the hall one is confronted with two large pyramids of *Salvia splendens*, gorgeous in all their glory of brilliant scarlet flowers. These pyramids are twenty-five feet high by sixteen feet wide. At the base of each huge bank of chrysanthemums add a majestic and imposing appearance. On the top of each pyramid is clustered a large ball of incandescent lights, while tiny electric globes by the thousands are cunningly interwoven among the foliage and flowers. One can easily imagine the brilliant effect these produce.

The ceiling is all festooned with garlands of southern smilax and ropes of electric lights. Two large American flags, 20x40 feet, composed of 800 incandescent lights in each, are fastened horizontally to the rafters. Six flags 18x40 feet are stretched fan shape against the walls, while 400 small flags 6x10 gracefully festoon the balcony rail; 1700 yards of bunting is also used in the decorations. It required 140 cases of smilax and two carloads of evergreens to do this work.

Passing between the pyramids one's attention is attracted, at the far end of the hall, by an exact reproduction on canvas of Mount Vernon, the home of George Washington. This canvas is forty wide by 100 feet long. In front of this and on either side of the stage are two handsome booths or summerhouses. On the main floor directly underneath these and occupying about one-third of the entire floor space is a counterpart of the famous flower garden of Mount Vernon, hedge and all included. The hedge and the borders around the beds are made of pine branches. The beds are all filled with pot chrysanthemums and other plants.

To heighten the effect and to carry out the historic idea a large number of palms and other plants were contributed by the White House conservatories. This idea was capitally carried out. It is wonderful the amount of work accomplished by Mr. Taggart and Mr. Thorpe. The people of Kansas City may well be proud of their display.

The competition for the premium of \$400 for American Beauties did not bring out the entries it deserved. Only four parties exhibited. The first prize of \$150 went to Peter Reinberg, Chicago; second went to Bentley & Company, Chicago and New Castle; third went to the South Park Floral Company, New Castle, and fourth was awarded to Reinberg & Weiland, New Castle. The vases of bloom were magnificent.

The competition for the best vase of 100 chrysanthemums was close, there being four splendid entries. The E. G. Hill Company, Richmond, Ind., won first prize of \$75 for a vase of Mlle. Marie Liger. H. W. Buckbee, Rockford, Ill., was second with Col. Appleton, while third prize went to W. J. & M. S. Vesey, Fort Wayne, Ind., also for Col. D. Appleton.

The whole display of cut blooms is exceedingly fine. The plant display, while not large, is very select. Some well grown decorative plants were also exhibited. Pierson's exhibit of *Nephrolepis* Piersoni and Dreer's display of *Pandanus Sanderi* came in for a large amount of admiration. Among the trade visitors Vaughan's *Acalypha bicolor compacta* was thought to be a decided acquisition. The judging of cut flowers fell largely upon the shoulders of E. A. Kanst, of Chicago, and too much credit cannot be given him for the impartial manner in which this duty was performed. The plants were judged by Mr. Kanst, Elmer D. Smith and James Hartshorne. It was midnight on the opening day before this duty was completed.

The display of carnations the second day was very good but not quite up to the standard of last year. The J. D. Thompson Carnation Co., Joliet, Ill., captured the principal prizes. Their vase of *Enchantress* was the most beautiful exhibit in the carnation line in the hall. The Chicago Carnation Company and W. J. & M. S. Vesey contributed largely to the exhibit of these charming flowers. The judges on the second day's exhibits were E. A. Kanst and Isaac Kennedy. The chrysanthemum contests in special classes A, B, C, D and I were very close; some magnificent flowers were exhibited.

The rose display was of remarkable

quality although not so many entries materialized as had been anticipated. Peter Reinberg's Liberty were fine. The most striking feature of the day was the display for the big special prize for collections of roses, not less than twelve varieties, the South Park Floral Company winning over the Rock Heite Company. Samuel Murray's display for the special prize for Kansas City Star chrysanthemum plants and flowers was laid out in the form of a star and was very effective. It was composed of potted plants.

One of the leading features of Thursday's exhibition was a vase of the new rose, Franz Deegen, exhibited by the South Park Floral Company. This new rose will be disseminated in 1903. It is a beautiful golden yellow, shading to orange in the center. The bud is long and pointed, with strong stiff stem and fine foliage.

On Thursday evening a banquet was tendered John Thorpe, at the Coates House, when that venerable and popular manager was presented with a gold watch, F. J. Taggart making the speech and H. W. Buckbee serving as toastmaster. Among those who responded were Elmer D. Smith, Herbert Heller and Fred. Lemon.

The competition on Friday was keen on seedling chrysanthemums and the judging late.

Gold medals were awarded to H. A. Dreer, for *Pandanus Sanderi*; to F. R. Pierson Co., for *Nephrolepis Piersoni*; to Vaughan's Seed Store, for *Acalypha bicolor compacta*; to South Park Floral Co., for *Rose Franz Deegen*.

The attendance early in the week was somewhat disappointing to a sanguine

management, but by the middle of the week the crowds were enormous, fully up to last year.

Following are the awards:

CHRYSANTHEMUM PLANTS.

One bush plant, white, first, Samuel Murray, Kansas City, with Ivory; second, H. W. Buckbee, Rockford, Ill.; third, Rock Heite Co., Kansas City.

One bush plant, yellow, first, Rock Heite Co., with Golden Trophy; second, Samuel Murray; third, H. W. Buckbee.

One bush plant, pink, first, Rock Heite Co., with Louis Boehmer; second, H. W. Buckbee; third, Samuel Murray.

One bush plant, red, first, Samuel Murray, with Geo. W. Childs; second, H. W. Buckbee; third, Vaughan's Seed Store, Chicago.

One bush plant "any other color," first, H. W. Buckbee, with T. Carrington; second, Samuel Murray.

One standard, white, not less than 18-inch stem, first, Vaughan's Seed Store, with Miss May Foster; second, Samuel Murray; third, H. W. Buckbee.

One standard, yellow, first, Vaughan's Seed Store, with Mrs. T. L. Park; second, Rock Heite Co.; third, Samuel Murray.

One standard, pink, first, H. W. Buckbee, with S. T. Murdock; second, Vaughan's Seed Store.

One standard, red, first, Vaughan's Seed Store, with G. W. Childs.

One standard, "any other color," first, H. W. Buckbee, with Mrs. Geo. Magee.

Six bush plants, six varieties, first, Samuel Murray; second, H. W. Buckbee.

Grafted plant, first, Vaughan's Seed Store; second, Robt. Mueller, Chicago; third, Rock Heite Co.

Group to occupy fifty square feet, first,

Samuel Murray; second, Vaughan's Seed Store; third, Rock Heite Co.

Group of pompons, first, Samuel Murray; second, Vaughan's Seed Store.

Group of single and anemone-flowered, first, Samuel Murray; second, Vaughan's Seed Store.

Two plants with twined stems, first, Vaughan's Seed Store; second, W. L. Rock, Kansas City.

Largest plant with smallest flowers, first, Vaughan's Seed Store.

Single flowered variety, one plant, first, Vaughan's Seed Store.

Thirty plants, single-stemmed, white, first, H. W. Buckbee; second, Vaughan's Seed Store.

Thirty plants, yellow, single-stemmed, first, Vaughan's Seed Store; second, Samuel Murray.

Thirty plants, single-stemmed, four colors or more, first, Vaughan's Seed Store.

MISCELLANEOUS PLANTS.

Fifteen carnation plants in pots, white, first, Samuel Murray.

Six distinct species in flower, first, Samuel Murray.

Twenty-five plants *Begonia Gloire de Lorraine*, first, Vaughan's Seed Store.

Ten plants scarlet *salvia*, first, Samuel Murray.

Ten zonal geraniums, first, Samuel Murray.

Six cosmos, no first or second; third, Samuel Murray.

Group of crotons, first, W. L. Rock.

Six *araucarias*, first, Samuel Murray; second, W. L. Rock.

Six *kentias*, first, W. L. Rock.

Six Boston ferns, first, Samuel Murray; second, W. L. Rock; third, A. F. Barbe, Kansas City.

Twenty-five ferns of one species, first, A. F. Barbe.

Two *Asparagus Sprengeri*, first, W. L. Rock.

Two plants grafted, first, Robert Mueller.

Group of begonias, first, Samuel Murray.

Group of palms to occupy 100 square feet, first, W. L. Rock; second, Samuel Murray; third, A. F. Barbe.

Group of decorative plants, 100 square feet, other than palms, first, Samuel Murray; second, W. L. Rock.

CHRYSANTHEMUM BLOOMS.

Twenty-five blooms, one variety, white, first, E. T. Grave, Richmond, Ind.; with Timothy Eaton; second, Nathan Smith & Son, Adrian, Mich., with Mrs. F. A. Constable; third, Samuel Murray. Six entries.

Twenty-five blooms, yellow, first, W. J. & M. S. Vesey, Fort Wayne, Ind., with Col. Appleton; second, H. W. Buckbee; third, E. G. Hill Co., Richmond, Ind. Twelve entries.

Twenty-five blooms pink, first, Chicago Carnation Co., Joliet, Ill., with Vivian-Morel; second, H. Weber & Sons, Oakland, Md.; third, H. W. Buckbee. Six entries.

Twenty-five blooms, red, first, Nathan Smith & Son, with Geo. W. Childs; second, H. W. Buckbee; third, E. G. Hill Co. Six entries.

Twenty-five blooms, "any other color," first, H. W. Buckbee, with T. Carrington; second, Nathan Smith & Son; third, E. G. Hill Co. Four entries.

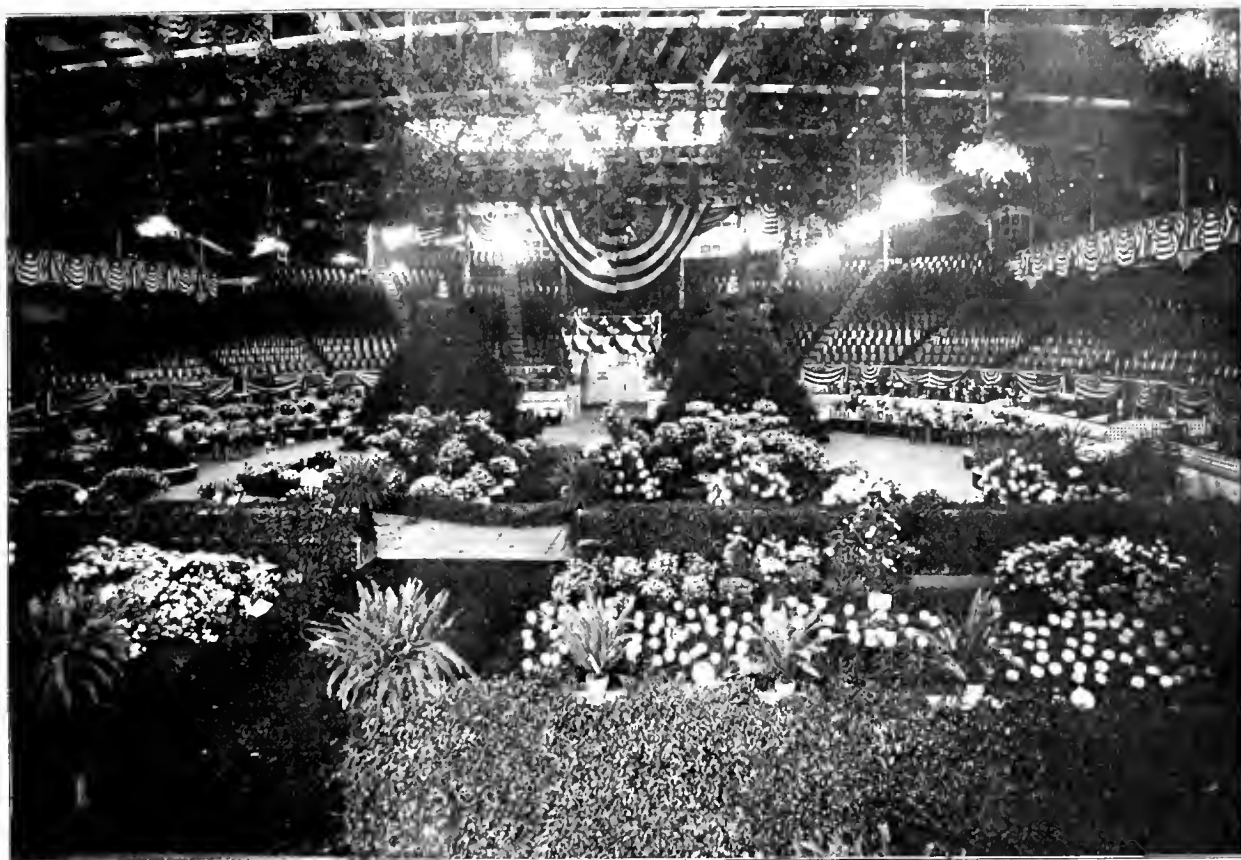
Twenty-five blooms, one variety, reflexed, first, E. G. Hill Co., with Yanariva; second, Chicago Carnation Co.; third, H. W. Buckbee. Four entries.

Twenty-five blooms, one variety, incurved, first, Nathan Smith & Son, with Pennsylvania; second, Gunnar Teil-



CHRYSANTHEMUM MLE. MARIE LIGER.

(Prize vase of 100 blooms exhibited at Kansas City by the E. G. Hill Co., Richmond, Ind.)



A VIEW TOWARD THE ENTRANCE AT THE KANSAS CITY FLOWER SHOW, NOVEMBER 3-8, 1902.

Photo by Davidson.

marn, Marion, Ind.; third, H. W. Buckbee. Four entries.

Six blooms, one variety, white, first, Nathan Smith & Son, with Alice Byron; second, Samuel Murray; third, E. T. Grave. Eight entries.

Six blooms yellow, first, E. G. Hill Co., with Col. Appleton; second, H. W. Buckbee; third, W. J. & M. S. Vesey. Nine entries.

Six blooms, pink, first, E. G. Hill Co., with Mrs. Chamberlain; second, Nathan Smith & Son; third, H. W. Buckbee. Nine entries.

Six blooms red, first, E. G. Hill Co., with G. W. Childs; second, Chicago Carnation Co.; third, H. W. Buckbee. Five entries.

Six blooms, "any other color," first, H. W. Buckbee, with Kate Broomhead; second, A. P. Barbe; third, Nathan Smith & Son. Six entries.

Six blooms, one variety, reflexed, first, H. W. Buckbee, with Mrs. Coombs; second, Vaughan's Seed Store; third, Nathan Smith & Son. Six entries.

Six blooms incurved, first, E. G. Hill Co., with Col. Appleton; second, Nathan Smith & Son; third, Vaughan's Seed Store. Seven entries.

Collection pompons, not less than ten varieties, first, Nathan Smith & Son; second, Vaughan's Seed Store.

Twelve anemones, first, Nathan Smith & Son.

One hundred blooms any one variety, first, E. G. Hill Co., with Mlle. Marie Liger; second, H. W. Buckbee, with Col. Appleton; third, W. J. & M. S. Vesey with Col. Appleton. Four entries.

Ninety-six varieties shown on mossed boards, first, Nathan Smith & Son; second, E. G. Hill Co.; third, H. W. Buckbee.

Seventy-two varieties on mossed boards, first, E. G. Hill Co., second, Nathan Smith & Son; third, H. W. Buckbee.

Forty-eight varieties on mossed boards, first, Nathan Smith & Son; second, H. W. Buckbee; third, Gunnar Teilmann, Marion, Ind.

Thirty-six varieties shown on boards, first, Nathan Smith & Son; second, E. G. Hill Co.; third, Gunnar Teilmann.

Twenty-four varieties shown on boards, first, H. Weber & Sons; second, Samuel Murray.

Twenty-four varieties, reflexed, shown on boards, first, Nathan Smith & Son; second, E. G. Hill Co.

Twelve varieties, reflexed, shown on boards, first, Nathan Smith & Son; second, E. G. Hill Co.; third, H. W. Buckbee; fourth, Samuel Murray.

Twenty-four varieties, incurved, shown on boards, first, E. G. Hill Co.; second, Nathan Smith & Son; third, H. W. Buckbee.

Twelve varieties, incurved, first, E. G. Hill Co.; second, Nathan Smith & Son; third, H. Weber & Sons; fourth, H. W. Buckbee.

Eighteen flowers, Boehmer type, first, H. W. Buckbee; second, Nathan Smith & Son.

Twelve flowers, Boehmer type, first, Nathan Smith & Son; second, H. W. Buckbee.

CARNATIONS.

Fifty blooms Flora Hill, first, Peter Reinberg, Chicago; second, H. W. Buckbee.

Fifty blooms White Cloud, first W. J. & M. S. Vesey; second, H. W. Buckbee; third, Peter Reinberg.

Fifty blooms Lorna, first, J. D. Thompson Carnation Co., Joliet, Ill.

Fifty blooms Norway, first, H. Weber & Sons; second, Chicago Carnation Co., third, Peter Reinberg.

Fifty blooms "any other white," first, J. D. Thompson Carnation Co.; second, H. Weber & Sons; third, W. J. & M. S. Vesey.

Fifty blooms America, first, H. W. Buckbee; second, Peter Reinberg.

Fifty blooms Crane, first, W. J. & M. S. Vesey; second, J. D. Thompson Carnation Co.; third, Gunnar Teilmann.

Fifty blooms "any other red," first, J. D. Thompson Carnation Co.; second, Chicago Carnation Co.; third, Peter Reinberg.

Fifty blooms Roosevelt, first, J. D. Thompson Carnation Co.; second, W. J. & M. S. Vesey.

Fifty blooms any other crimson, first, J. D. Thompson Carnation Co.; second, W. J. & M. S. Vesey.

Fifty blooms Marquis, first, J. D. Thompson Carnation Co.; second, Peter Reinberg; third, W. J. & M. S. Vesey.

Fifty blooms Lawson, first, J. D. Thompson Carnation Co.; second, H. W. Buckbee; third, W. J. & M. S. Vesey.

Fifty blooms Dorothy, first, E. T. Grave, Richmond, Ind.; second, W. J. & M. S. Vesey; third, Peter Reinberg.

Fifty blooms Morning Glory, first, J. D. Thompson Carnation Co.; second, Peter Reinberg; third, W. J. & M. S. Vesey.

Fifty blooms dark pink, first, J. D. Thompson Carnation Co.; second, Peter Reinberg; third, W. J. & M. S. Vesey.

Fifty blooms light pink, first, Chicago Carnation Co.; second, Peter Reinberg.

Fifty blooms Mrs. Bradt, first, W. J. & M. S. Vesey.

Fifty blooms Prosperity, first, J. D. Thompson Carnation Co.; second, Chi-

icago Carnation Co.; third, Peter Reinberg.

Fifty blooms "any other variegated," first, J. D. Thompson Carnation Co.; second, W. J. & M. S. Vesey.

Fifty blooms yellow, first, J. D. Thompson Carnation Co.

Twenty-five blooms white of 1902, first, H. W. Buckbee; second, J. D. Thompson Carnation Co.; third, W. J. & M. S. Vesey.

Twenty-five blooms dark pink of 1902, first, W. J. & M. S. Vesey.

Twenty-five blooms flesh color, first, Chicago Carnation Co.

Twenty-five blooms of light pink of 1902, first, Chicago Carnation Co.; second, H. W. Buckbee; third, E. T. Grave.

Twenty-five blooms red of 1902, first, Chicago Carnation Co.; second, J. D. Thompson Carnation Co.; third, H. W. Buckbee.

Twenty-five blooms any color of 1902, first, W. J. & M. S. Vesey; second, H. W. Buckbee.

ROSES.

One hundred Beauties, first, Peter Reinberg, Chicago; second, Benthey & Co.; third, South Park Floral Co.; fourth, Reinberg & Weiland.

Twenty-five Beauties, first, Peter Reinberg; second, Benthey & Co.; third, Reinberg & Weiland.

Forty Kaiserin, first, Peter Reinberg.

Forty Bride, first, Benthey & Co.; second, Reinberg & Weiland; third, W. J. & M. S. Vesey.

Forty Bridesmaid, first, Benthey & Co.; second, Peter Reinberg; third, Reinberg & Weiland.

Forty Meteor, first, W. J. & M. S. Vesey.

Forty Perle, first, Peter Reinberg; second, H. W. Buckbee.

Forty Golden Gate, first, H. W. Buck-

twelve varieties, first, South Park Floral Co., New Castle.

MISCELLANEOUS AWARDS.

The dinner table decorations were for two days, Thursday and Saturday. The first day the premiums were awarded in the following order: First, Samuel Murray; second, Rock Heite Co.; third, John Mangel, Chicago; fourth, L. P. Walz, Chicago.

Yellow flowers, ten vases, first, Samuel Murray.

Yellow chrysanthemums, not less than fifty, first, E. G. Hill Co.

Yellow roses, variety not heretofore exhibited, first premium to South Park Floral Co., for Rose Franz Deegan.

Yellow carnations, not less than fifty, first, J. D. Thompson Carnation Co.

Yellow roses, not less than fifty, first, Peter Reinberg.

VISITORS.

Among the trade visitors present were E. A. Kanst, Leonard Kill, Arnold Ringier, J. S. Wilson, C. W. Scott, W. N. Rudd, L. Coatsworth, Lee Walz and Philip Foley, Chicago; John Bertermann, Indianapolis; Herbert Heller, New Castle, Ind.; Mr. and Mrs. J. M. Gasser and Isaac Kennedy, Cleveland; J. D. Thompson, J. E. Jensen and James Hartshorne, Joliet, Ill.; H. Weber, Oakland, Md.; Mr. and Mrs. Fred. Lemon and E. T. Grave, Richmond, Ind.; Elmer D. Smith, Adrian, Mich.; Gunnar Teilmann, Marion, Ind.; J. R. Fotheringham, Tarrytown, N. Y.; F. W. Creighton, Philadelphia; Mrs. Richard Morrison, Decatur, Ind.; Miss Meinhardt, St. Louis, Mo.; George Swoboda, Omaha; Mr. and Mrs. H. W. Buckbee and C. W. Johnson, Rockford, Ill.; M. Stauch, Council Bluffs, Ia.; Christian Jensen, Topeka, Kan.; C. W. Stiles, Oklahoma City, Okla.; Mrs. M. S. Vesey,

New York.

The close of the Madison Square Garden exhibition came on Thursday night, November 6. The great exhibition was still in presentable shape, notwithstanding its long continuance, the cut flower exhibits having been renewed and added to daily so that, the impression of freshness remained until the end and the plants holding up well as a rule, under the trying conditions of the unaccustomed atmosphere. It is to be expected, though, that many of the stove plants will show the effect of their exposure for many months and it is a question if it would not be much wiser and more fair to exhibitors of such things to limit the continuance of a show to four days, at the outside.

While adding greatly to the effectiveness and finish of the affair, it appears that the statuary annex did not bring to the show the expected support, which is a disappointment to all concerned. The officials for the New York Florists' Club and the Garden management did faithful work from beginning to end. The veteran press agent, Mr. Chamberlain, did everything that could be done in the face of an exciting political campaign and election that occupied most of the space in the daily papers, as well as most of the attention of the public, and the programme designed by Manager Bunyard was a work of art throughout, for which the little Japanese saleswomen found many appreciative buyers.

The prize schedule was a long one and the report on awards will undoubtedly be considered more readable if condensed somewhat. In the classes for decorative foliage plants the exhibits were grand, comprising many stately specimens. For big group covering 400 square feet Julius Roehrs was first and Siebrecht & Son second. Roehrs was also first on small table of foliage plants, on six palms, pair of tree ferns, basket of Lorraine begonias, pair of pyramid bays, and second on specimen kentia, areca, nephrolepis and phoenix. Siebrecht was first on specimen kentia. A. Schultheis was first on group covering 200 square feet and second on small group. J. H. Troy was first on group of bamboos and second on latania specimen, David Clarke's Sons first on rhaps, D. O'Mara on ficus, F. Wienberg on group of cacti and Wm. Brenneke on group of geraniums, and this about covered the participation of the commercial men in the plant premiums, the private gardeners getting the balance. D. Willis James, Wm. Duckham, gardener, won four firsts with superb groups. S. Untermeyer, W. H. Waite, gardener, won four firsts and seven seconds, Mrs. Cnas. Pratt, Otto Manda, gardener, one each first and second and E. D. Adams, G. H. Hale, gardener, three firsts.

The orchid classes brought out exceedingly fine groups, Roehrs being first for group of orchids and foliage plants covering 150 square feet, and Siebrecht second. Lager & Hurrell were first and Siebrecht second for largest and most varied display and Siebrecht first on *Cattleya labiata* and *Oncidium varicosum* Rogersii. The display of specimen conifers and broadleaved evergreens from Bobbink & Atkins was one of the most comprehensive and effective ever shown in this country and added materially to the general effectiveness of the entire exhibition. They took six first prizes in this class. Chrysanthemums in pots were limited to a few specimens from J. Crosby Brown, Peter Duff, gardener, and Wm. Rockefeller, George Middleton, gardener.



PETER REINBERG'S \$150 PREMIUM VASE OF AM. BEAUTIES AT KANSAS CITY.

Photo by Davidson.

bee; second, Peter Reinberg; third, W. J. & M. S. Vesey.

Twenty-five Ivory, first, Peter Reinberg; second, H. W. Buckbee.

Twenty-five Liberty, first, Peter Reinberg.

Twenty-five "any other variety," first, Peter Reinberg.

A vase of Sunrise shown by Peter Reinberg received honorable mention, not entered for competition.

Best display of roses, not less than

Fort Wayne, Ind.; J. P. Coen, Lexington, Mo.; S. Humfield, Muncie, Ind.; F. M. Ellis, St. Louis; Fred. E. Dorner, Lafayette, Ind.

MORRIS, ILL.—A. B. Hull has sold the property of the Morris Floral Company to Nels P. Colberg, of Ottawa, Ill., for \$6,000. Mr. Colberg took charge at once. He is an old hand at the business, having been engaged in it for nearly twenty-five years at Princeton, Ill.

A silver medal was given to H. A. Dreer for a grand group of *Pandanus Sanderi* and one to J. H. Troy for Japanese plants. The S. A. F. silver medal went to F. R. Pierson for *Nephrolepis exaltata* Pierson and the S. A. F. bronze medal to the Dale Estate for the new light pink sport from rose Mrs. Pierpont Morgan, named Canadian Queen.

Certificates of merit were given to Wadley & Smythe for *Rhapis humilis*, pair of *Ficus elastica* and pair of *Ficus Indica*, to Chas. Zeller & Son for orange trees, to J. H. Troy for collection of Japanese plants and collection of ivies, to Bobbink & Atkins for clipped boxes, to L. H. Foster for *Nephrolepis exaltata* Anna Foster, to Perry Belmont for gardenias, the Dale Estate for rose Canadian Queen, and A. Schultheis for lily of the valley. E. Jenkins received honorable mention for nymphæas.

The cut flower classes were in many cases meagerly filled. This was especially the case with the roses and seems unaccountable, as the premiums were generous and there is no scarcity of roses in the market; \$100 for 100 Beauties seems liberal, but it did not bring out a single entry. Righter & Barton won first on twenty-five Beauty, J. H. Taylor on fifty Bridesmaid and the classes of twelve each were competed for by the private gardeners only, Messrs. Jenkins, Dieterich, Stow, Rockefeller and Adams being represented as winners by their respective gardeners. The American Rose Company's prize of \$100 for fifty blooms of Ivory went to E. G. Asmus. On Wednesday Jacob Becker's La France sport, Ideal, was shown in good form and attracted much attention.

In the chrysanthemum cut blooms the display was disappointingly small but this was atoned for in the quality of the blooms shown, which was superlative in the highest degree. Nothing finer can be imagined than the specimens of such sorts as Mrs. Weeks, Timothy Eaton, Golden Wedding, Col. Appleton, Mrs. Perrin, Mrs. Robinson and Mrs. Coombs. E. J. Taylor, Rowayton Greenhouses, Weber & Sons, J. Condon and A. Schultheis were the only commercial men represented in this section and they only in limited number. H. McK. Twombly, A. Herrington, gardener, was winner of first prizes in eight classes of twelve and twenty-five each. D. Willis James, Wm. Duckham, gardener, won two firsts, also first for sixty blooms in six varieties. C. F. Dieterich, W. C. Russell, gardener, won four firsts, also first for thirty-six blooms in six varieties. Other contributors were Messrs. Rockefeller, P. A. B. Widener, Wm. Kleinheinz, gardener; E. D. Adams and M. C. D. Borden, Wm. Turner, gardener.

The carnation classes were creditably filled and the display of splendid blooms, well arranged, attracted much attention. The greatest interest centered on the J. D. Thompson Company's Enchantress, Peter Fisher's famous beauty, which won on all its entries, and S. J. Reuter's Lillian Pond. In the open classes S. J. Reuter was first with fifty Lawson and 100 white. J. Reimels was first with fifty Scott, Morning Glory, Genevieve Lord, crimson, Flora Hill, and second with fifty dark pink, light pink, Crane, and yellow. C. W. Ward was first for best general display, for fifty blooms arranged for effect, fifty dark pink and second for Lawson and Prosperity. Dailedouze Brothers were first for fifty light pink (Miss Alice Roosevelt), Gov. Roosevelt, Harry Penn, white, fifty yellow and 100 yellow. E. V. D. Snyder



THE VASE OF CARNATION ENCHANTRESS EXHIBITED AT KANSAS CITY.

was first for fifty Crane, J. H. Taylor for fifty Prosperity. The J. D. Thompson Carnation Company was first for 100 blooms of a seedling variety, Weber & Sons for fifty dark pink and fifty white and second for fifty light pink. Patten & Company were first for crimson and scarlet, and second for white and Peter Fisher first for fifty light pink and for variegated. W. L. Stow, C. F. Bertanzel, gardener, won second in the "any variety" class.

The carnation classes limited to private gardeners also brought out Messrs. Waite, Kleinheinz, Middleton, Turner, Bertanzel and Duckham with most creditable displays. David Clarke's Sons and George M. Stumpp each contributed a fine basket of chrysanthemums artistically arranged with ferns, autumn foliage, etc., but not for competition. Lehnig & Winnifield showed a group of excellent cyclamens. A set of twenty flowers, distinct varieties, of chrysanthemums from W. W. Wells, Earleswood, Surrey, England, attracted much attention on account of the fine condition in which they arrived after their voyage on the Etruria, as well as for their quality.

Lenox, Mass.

The second annual chrysanthemum show held under the auspices of the Lenox Horticultural Society took place in the new town hall October 23 and 24. It proved to be by far the most successful and beautiful exhibition ever held by that society or any other in the county. The competition in all classes was very keen, as may be judged from the fact that it took the three judges, all of whom are experts, nearly eight hours to award the prizes. The five large groups occupying the main part of the floor were all particularly attractive, flanked as they were on one side by tables containing a grand display of orchids and on the other with cut blooms of chrysanthemums which seemed to be the acme of perfection in size, color and finish. The principal exhibitors were Girard Foster, Ed. Jenkins, gardener; John Sloane, A. J. Loveless, gardener; Charles Lanier, A. H. Wingett, gardener; G. H. Morgan, John Dallas, gardener; W. D. Sloane, G. T. Phileox, gardener; G. G. Haven, R. A. Schmidt, gardener; John E. Parsons, E. Edwards, gardener; Mrs. K. Winthrop, S. Carlquist, gardener; Anson P. Stokes, E.

Lundberg, gardener. There were other exhibitors but these were the principal ones in about the order named.

The class calling for groups of chrysanthemums, arranged with other foliage plants for effect, brought out four groups, the first prize going to John Sloane, second to Wm. D. Sloane and third to Chas. Lanier. A very pretty and artistic group shown by Mr. Foster was disqualified for occupying more space than the schedule called for. The fifth was from G. H. Morgan and was not for competition. This was awarded a first-class certificate.

For three specimen chrysanthemums G. Foster was first with good plants of Mrs. Coombs, Sunderbruch and Constable, Geo. H. Morgan being second and J. E. Parsons third. For one specimen J. B. Parsons was first, with Robinson, G. H. Morgan second and G. Foster third. On specimen stove plant G. Foster was first with a tremendous Dieffenbachia magnifica, about seven feet through, W. D. Sloane second and C. Lanier third. For specimen ferns, Chas. Lanier was first with six fine plants, and G. Foster second. For pompon chrysanthemums and six grown to single stem and bloom G. Foster was first. John Sloane was first for twelve single stems. G. G. Haven was first for six bush plants.

For group of twelve flowering plants other than chrysanthemums, Chas. Lanier was first. Shown in this group was a magnificent cosmos, which attracted much attention, and which the judges were pleased to honor with a certificate of merit. The display of orchids was exceptionally fine and the original and

filled and the competition exceedingly close. G. Foster and J. Sloane were the principal exhibitors and both staged a grand lot of flowers, most of them seeming to be done to perfection. Particularly noticeable were the Peter Kay and Mrs. Bruant from J. Sloane, while Mrs. Robinson, Rustique, Mme. Carnot, Carrington and others from G. Foster were simply grand. H. J. Jones was shown by all exhibitors who showed reds and most of them were very fine and seemed to prove that this variety has no rival in its color. Col. Appleton was shown by several but not in quite such good form as we have seen it. It seemed to have too many petals, which marred the center of the blooms to some extent. The exhibitors of cut flowers were G. Foster, J. Sloane, G. G. Haven, A. P. Stokes and C. Lanier, who took prizes in the order named.

Though early in the season, a fine lot of roses were shown in their classes, the vases of Beauties, Carnots and Kaiserins being particularly striking. Excellent Brides were also shown by J. Sloane. The new Baldwin did not show up strongly in comparison with some of the older varieties but we will hope it will do better later, for it is a handsome rose. The exhibitors in the rose classes were J. Sloane, G. Foster, Chas. Lanier and W. D. Sloane. Carnations were shown plentifully and of very good quality for this season of the year. Lawson showed up well, also Crane, Roosevelt, Manley and others. Prize winners in these classes were the same as those showing in the rose classes, with the addition of

G. G. Haven, Mrs. R. Winthrop and A. P. Stokes.

J. E. Parsons, G. H. Morgan, Mrs. Winthrop, Eden Hill Farm, G. Foster, and W. D. Sloane staged a fine display of violets, dividing the honors between them. The varieties shown were Marie Louise, Campbell and Princess of Wales.

The vegetable and fruit classes occupied the gallery and proved very attractive to the general public, who seemed to appreciate those things that appeal to the "inner man" as much as they did the gorgeous flowers that delighted the eye in the hall below. First for collection of vegetables was awarded to C. Lanier, second to Mrs. R. Winthrop and third to A. P. Stokes. Other prize winners in the other vegetable classes, besides the above were G. Foster, J. Sloane, M. K. Jessup, and J. E. Parsons. J. Sloane was first for collection of apples and first for pears, while Mrs. Winthrop was first for two bunches of grapes, with Muscat of Alexandria, and P. J. Donahue second. P. J. Donahue was first for outdoor grapes.

A grand display of water lilies from G. Foster attracted much notice and a beautiful deep pink seedling, raised by Mr. Jenkins and named Bellefontaine, was awarded a certificate of merit. The same exhibitor also showed a flower of Victoria regia. The new carnation Enchantress was shown by Peter Fisher, Ellis, Mass., and was accorded a vote of thanks.

The judges were Messrs. A. Herrington and Wm. Duckham, of Madison, N. J., and Wm. Anderson, South Lancaster, Mass., who spared neither time nor patience to do their part very thoroughly.

Madison, N. J.

The seventh annual exhibition of the Morris County Gardeners' and Florists' Society, which opened Thursday, November 6, at Madison, N. J., was as heretofore notable for the superlative quality of the chrysanthemum cut bloom and decorative plant exhibits and for good management throughout. Among the largest contributors were such chrysanthemum growers of wide repute as A. Herrington, Wm. Duckham and Peter Duff, also nearly a score of the most skillful commercial rose producers for the New York market. In the most important competitive class, for thirty-six chrysanthemum blooms in six varieties, Mr. Duckham led with a superb set, including Mrs. Weeks, T. Carrington, Merza, H. J. Jones, Lord Salisbury, a bronzy yellow, and Mme. Thirkall, yellow, the last two named being new vari-



THE STAND OF ROSES AT THE NEW YORK EXHIBITION.

effective arrangement of the display from W. D. Sloane, which took first, attracted everyone's attention and reflected great credit upon Mr. Herreman, who arranged it. This display consisted chiefly of Cattleya labiata, Oncidium varicosum Rogersii and Odontoglossum grande. J. Sloane was awarded second for a beautifully staged group of cattleyas, oncidiums, odontoglossums and some cypripediums. Conspicuous in this collection was a plant of Cattleya Dowiana, Phalenopsis amabilis and Dendrobium Phalenopsis and D. formosum. W. D. Sloane was also first for twelve Cattleya labiata and G. Foster, second. H. P. Wookey took the honors for twelve Oncidium varicosum Rogersii with an exceptionally finely flowered lot of plants, some of the spikes being four to five feet long, carrying from 100 to 200 flowers. W. D. Sloane was second. John Sloane was first for twelve cypripediums.

The cut flower classes were all well



CHRYSANTHEMUM CUT BLOOMS AT THE NEW YORK EXHIBITION

(E. G. Hill and his exhibits in the foreground.)



GENERAL VIEW OF THE COMBINED SCULPTURE AND FLOWER SHOW AT MADISON SQUARE GARDEN, NEW YORK.

eties imported last May and which belong in the first class. Mr. Herrington was a very close second in this class and in the class for eighteen blooms in three varieties he defeated Mr. Duff but by an equally close margin, with Appleton, Barclay and Eaton.

In the remaining chrysanthemum classes Mr. Herrington had four firsts and one second, Mr. Duckham one first and two seconds, Mr. Duff four firsts and Mrs. J. Catlin and G. E. Kissell one each first and second, Frank Burnett and Geo. Bird, Jr., each two seconds. Among the new varieties the most striking was Mr. Duckham's Mabel Morgan, a fine yellow Japanese. L. V. Thenband, Edw. Regan, gardener, showed an elegant arrangement of blooms with autumn leaves and C. H. Atkins took a special prize for the largest flower in the show, with Mathew Smith, thirty inches in circumference. Splendid groups of chrysanthemums and decorative foliage plants were arranged by G. E. Kissell, H. L. Hand, gardener, Wm. Duckham and A. Herrington. Peter Duff had the best specimen plants.

For eighteen American Beauty roses L. A. Noe was first and Henry Hentz, Jr., second, and for twelve Beauty the same exhibitors won in reverse order. In the Bride and Bridesmaid classes there were many competitors, prizes going to Henry Hentz, Jr., the Chatham Rose Co., W. A. Ryan, D. Shannon, C. E. Holm, J. L. Quearney and L. A. Noe. In carnations Mr. Duckham won first and C. W. Ward second. In the general classes Lyons, Strickland, W. S. Herzog, G. E. Kissell and C. H. Blair, John Fraser, gardener, were winners. The Moore, Hentz &

Nash silver medals to employes growing the leading prize-winning exhibits went to S. Redstone for chrysanthemums, J. F. Ruzicka for Beauty, M. McGowan for Bridesmaid, and J. Milton for Bride.

Certificates were awarded to Mr. Duckham for a set of fifty named chrysanthemum blooms of remarkable finish and uniformity, for a pair of large *Kentia Sanderiana*, for specimen *Calamus Jamesi*; to Peter Duff for a set of perfect single-stemmed plants of *Merza*; to A. Herrington for specimen *Cocos flexuosa*, to J. N. May for seedling chrysanthemums; to F. R. Pierson for *Nephrolepis Piersoni* and Mr. Herrington for *Gerbera Jamesoni*. Lager & Hurrell made a nice exhibition of orchids and a number of other miscellaneous but meritorious exhibits came from several contributors who were given honorable mention. There was good music and a fair attendance. The school children attended in a body Thursday afternoon.

Exhibitions of Trade Value.

Again we have come to the time of year when the fall flower show is about to enter into the general run of business and on every hand I am asked the question, "What is the value of the flower show to the trade?" I believe it is the very best thing for the trade, and I am only sorry our western growers cannot be made to look at it in the same light. I also regret that as yet the western cities find it next to impossible to have a spring show, for it is the very cheapest advertising our producer can get. Look at the thousands of lines written in our

daily papers each season, when we are about to have a flower show, also see the many pictures and great head lines that stimulate the interest in flowers and keep them before the people. Each grower could afford to grow something for a show, even though there was no premium list.

Has the grower, the wholesale dealer, or the retail man ever thought why New York, Philadelphia and Boston do so much more business than is done in any city of the west, remembering that the greater part of the flowers grown around Chicago are sent out on shipping orders? Why is this? Simply because every retail man thinks, when he is asked to enter, that he personally has been picked out as a "sucker," as he terms it. The grower also has his "kick coming," for the defeated one seems to always think things were fixed for the other fellow to win the prize. Then the wholesaler files his little objection, for one reason or another, instead of all factions joining hands to make a show, and make one that would not only be an honest advertisement, but a credit to the trade at large.

I, for one, would say that if it could be so managed that every time a glut came on the market, or at a fixed time each thirty days during the season, a free flower show would be the cheapest and best thing that could be done for the future of our business.

In order to create interest in our shows I think that all growers and wholesalers could well afford to donate to the advertising committee, for the thirty days before a flower show, enough stock to

keep every editor, manager and high official connected with a daily paper, and other influential parties, reminded of the fact that we want their aid. This could be done in a nice way and the grower would not miss a cent, for any incidental small loss of sales would surely be made up by the success of the show helping everyone connected with the trade.

CONTRIBUTOR.

In the Plant Houses.

There are only about six weeks more in which to make preparations for Christmas. Many things are to be thought of and many preparations to be made. Tender stock in general is all under cover now, or should be, and to those who may not have brought in the Easter crop of lilies from the frame in which they have been making a start, it may be said that the sooner this is done the better, for while *Lilium longiflorum* will stand a touch of frost, it is not wise to get the tips of the leaves spoiled at this time, for this disfigurement is likely to appear soon enough in most cases.

It is at Christmas that berried plants of various kinds are most in demand, and bright red and green are the colors that seem best adapted to that season. Consequently we find that ardisias, oranges and solanums attract more attention at that festal time than at any other, this being simply another illustration of the association of ideas, by means of which the mention of Christmas brings to mind at once the bright red berries of the holly. But the question of berried plants also reminds us that there may be little sunshine during November, and unless all our crops are in a forward condition we must make the best use of the limited time that is before us, for the plants must have bright-colored, ripe fruit in order to realize the best prices.

people that it reminds very much of the birds' eye pepper of their youth.

The dwarf oranges still have many friends and admirers, but as these plants cannot be grown in a few months it naturally keeps the price up fairly well, and makes these plants better adapted for a select trade. These also are much more satisfactory to the purchaser when kept in a cool house for some weeks before being sold, both foliage and fruit lasting much better, but to keep the fruit in good condition in a low temperature it is best not to water overhead to any great extent, and especially so during cloudy weather.

From present appearances there will be a great quantity of *Begonia Gloire de Lorraine* in the market this season, and of very good quality. At this critical time of year much depends upon careful watering, this begonia being one that is easily satisfied with water, and particularly as the flowers appear, when a careless dashing of water overhead may do great injury.

Some azaleas are sold at Christmas, but it is rather early for many of the varieties, and there should also be some selection of the individual plants, for some specimens may be more forward in bud than others of the same variety. Bright colors are decidedly the most salable at this season, but even these are liable to come somewhat washy in color if forced too hard. A night temperature of 60° to 65° is usually quite high enough to bring azaleas into flower, and this should be reduced as soon as the flowers begin to open.

The making up of combination pans or pots of plants for the holiday trade should soon be looked after, for though it is not necessary to do this work a great while before the plants are sold, yet it is not well to postpone it too long. Poinsettias that are to be grouped together may be left until the bracts are

may be mingled with *Dracæna Sanderiana* with good effect.

Cyclamen persicum is now coming into bloom and the improved strains that are offered by the leading growers provide some charming effects in both foliage and flowers. The precautionary measure of keeping some fresh tobacco stems among the pots of cyclamens should be continued right along, it being much better to avoid attacks of green aphids by this means than to wait until the insects appear, and then attempt fumigating. The same precaution should be taken with *Lilium longiflorum*, primulas and cinerarias and neither of these plants require much water overhead during the short days.

Cold storage is a modern process that has proved quite useful to most florists who can have access to this convenience, and cold storage lily of the valley is decidedly the most satisfactory in quality for early forcing, and gives a more even crop and a better showing of leaves than may be had from pips of the new crop, but the extra expense of cold storage stock must also be considered, for the margin of profit is not large to the grower. *Lilium longiflorum* of last year's crop that have been retarded by the same means are now in flower and are quite useful for cutting, but as pot plants they are not attractive, the growth and foliage being in most cases below par, though the flowers are of fair size. This seems to be another proof of the assertion so often made that members of the lily family soon lose more or less of their vitality when the bulbs are kept out of the earth.

When the glass trust turns out only perfect material, or when all the poor growers can afford to use plate glass on the roofs of their greenhouses, then it will be safe to do without shading over the foliage plants from October 1 throughout the winter but under present conditions we often find plants with scorched leaves in houses from which the shading has disappeared and then proceed to form some good resolutions for the prevention of such occurrences in the future.

Some of the large retail dealers do not care to handle small-sized and cheap plants, arguing that in many instances it takes just as long to sell a 50-cent plant as one at \$5 and that in consequence their profits are reduced, but the small grower and retailer cannot afford to draw the lines so closely and he therefore must have some cheap plants also, and a few English primroses, violets in pots or pans and in fact a variety of comparatively low priced and easily grown plants must be provided.

As the bulbs arrive that have been ordered for forcing or for spring use do not delay the potting or boxing of them; the sooner they are in the soil the better.

W. H. TAPLIN.



DREER'S EXHIBIT OF PANDANUS SANDERI AT THE NEW YORK EXHIBITION.

Plenty of light is therefore needed for stock of this character, and also free ventilation.

If ardisias are in a forward condition it is best to keep them cool, the berries hanging on much better in a night temperature of 55°, and the low temperature also discourages the spread of scale insects, if any such are present. *Capsicum annuum* is one of the easiest plants to manage, and is really pretty, but it is whispered that this plant is just a little common, and that there are so many

fairly well developed, as they can then be grouped in just the form one desires.

An attractive combination plant may be made from nicely colored *Dracæna terminalis* of various sizes grouped together in a 9-inch or 10-inch pot, and some Boston ferns from 3-inch or 4-inch pots planted around them. The contrasting foliage of these two species makes a very pleasing arrangement. *Asparagus Sprengeri* may also be used as a filler in such combinations, while some small plants of *Asparagus plumosus*

Chrysanthemum Society of America.

Following are the reports of the committees judging seedlings, sports and new importations:

Boston, October 27.—The E. G. Hill Company, Richmond, Ind., exhibited Mlle. Marie Liger, an imported French variety, light pink, incurved Japanese, which scored 98 points, commercial scale, November 1.—Grove P. Rawson, Elmira, N. Y., exhibited Snow White, white, Japanese, which scored 80 points, commercial scale, 83 points exhibition scale. Nathan Smith & Son, Adrian, Mich., exhibited Globosa Alba, white, incurved, which scored 87 points, commercial scale,

86 points exhibition scale. No. 15-8-01, by the same exhibitors, a red, reverse chamois, Japanese reflexed, scored 80 points commercial scale, 78 points exhibition scale.

Cincinnati, November 1.—Nathan Smith & Son exhibited Ethelyn, beautiful shade of pink on the order of Daybreak carnation, only a little deeper in center, Japanese reflexed, which scored 85 points commercial scale.

Philadelphia, November 1.—John N. May, Summit, N. J., exhibited No. 231, pink, Japanese incurved, which scored 84 points commercial scale, 83 points exhibition scale. No. 86, by the same exhibitor, amber red, Japanese reflexed, scored 82 points exhibition scale. Nathan Smith & Son exhibited Sephia, bright yellow, Japanese incurved, which scored 87 points commercial scale, 86 points exhibition scale.

New York, November 1.—Nathan Smith & Son exhibited Algoma, light rose, silvery reverse, which scored 83 points commercial scale. John N. May exhibited No. 28, mahogany, gold reverse, gold tipped, Japanese reflexed, which scored 67 points commercial scale. No. 86, by the same exhibitor, scored 73 points commercial scale. Mirabeau, by the same exhibitor, bright clear yellow, Japanese, scored 77 points commercial scale. Amorita, also exhibited by Mr. May, rosy pink, lighter reverse, Japanese incurved, scored 84 points commercial scale.

VARIETIES CERTIFICATED.

Having had inquiries for a list of varieties of chrysanthemums which have been awarded the necessary number of points entitling them to a certificate by the Chrysanthemum Society of America since and including 1898, and thinking perhaps there may be others desiring same information, I herewith append said list. The Horticultural Society of Chicago, under the auspices of the Chrysanthemum Society of America, offers premiums for the varieties under consideration, a premium list of which may be had by applying either to Edwin A. Kanst, assistant secretary, 5700 Cottage Grove avenue, Chicago, or the undersigned.

Willowbrook,	Robt. Halliday,
Soliel d' Octobre,	Mrs. Trevor L. Park,
A Iula,	Polly Rose,
Mrs. F. A. Constable,	Captain Gridley,
Kuno,	Ida van,
Stellata,	Primo,
Nesota,	White Bonnaillon,
Walter Molatsch,	Admiral Schley,
Eulalie,	Chestnut Hill,
Iolantha,	Mrs. Ritson,
Yanariva,	Zampa,
Joseph W. Cook,	Golden Fame,
Harry A. Fee,	Polar Queen,
John K. Weir,	Bentley,
Sirius,	Harry A. Parr,
Adele,	Meta,
Silver Wedding,	Pride,
G. J. Warren,	Phenomenal,
White Maud Dean,	Shilowa,
Nagoya,	Superba,
Monrovia,	Pluma,
Intensity,	Marguerite,
Winona,	Col. D. Appleton,
Margaret Euright,	Omega,
Malcolm Lamond,	Mrs. W. B. Chamberlain,
Brutus,	Nellie,
Opah,	Oresco,
C. Holst,	Pride of Elstowe,
Providence,	Mrs. Wm. Fraser,
Lady Harriett,	J. K. Shaw,
Mavourneen,	Mrs. N. Molyneux,
Eclipse '98,	Mlle. Lucie Faure,
Admiral Dewey,	J. M. Keller,
Zoraida,	Xeno,
Queen of Plumes,	Orizaba,
Goldmine,	Lavender Queen,
Mrs. Geo. C. Jenkins,	Bonita,
Souci,	Florence E. De-nzer,
Mrs. Elmer D. Smith,	Mary Hill,
Prosperity,	Timothy Eaton,
Adrian,	Mrs. F. J. Taggart,
Cremo,	Honesty,
Henry A. Gane,	Miss Jane Morgan,

All information for publication respecting exhibits of seedling chrysanthemums,



SCULPTURE ENHANCED THE GENERAL EFFECT AT THE NEW YORK FLOWER SHOW.

sports or new importations, according to the rules adopted by the C. S. A., can only be made public through the secretary.

EDWIN LONSDALE, Sec'y.

A Visit to Waban.

An annually recurring event, overflowing with a good-cheer peculiarly its own and deeply suggestive of the higher attainments and best ambitions of New England horticulture, took place on Tuesday, November 4. It was the time-honored visit of the Bostonians to Waban Conservatories, at Natick, an occasion which the florists of this section and many others from afar have come to recognize as an instructive and altogether delightful institution, unsurpassed by any other social event of the year. This year it had been questioned whether, in the absence forever of one who in the generosity of his heart had instituted these annual reunions and who had in the past entered into the spirit of the day with so keen an enjoyment, it might not be best to discontinue the time-honored custom, but the unquestionably wise decision of Mr. Montgomery and his colleagues was that they would more fully carry out what would have been Mr. Wood's wish and best honor his memory by sending out the usual invitations and making arrangements just as in the past.

In the party of forty gentlemen who went out from Boston were included W. R. Smith, A. Gude and W. F. Gude, of Washington; Henry Dailedouze, Flatbush, N. Y.; E. O. Orpet, South Lancaster; J. Fuller, Leominster, and H. F. A. Lange, Worcester. The tour of inspection through the long ranges of greenhouses disclosed no additions or anything special in the line of novelty, but rather a stride upward toward the ideal of perfection in commercial flower-growing, for, impressive as this place has

always been in this respect, yet, taken as a whole and in every detail, it is to-day finer than ever before. Bride, Bridesmaid and Liberty in large array and Bon Silene, Mrs. Morgan, Mrs. Ames, Golden Gate, Ivory, Mme. de Watteville and Balduin in lesser numbers are all equally an object lesson and an incentive delight to the eye of the rose-grower and rose-lover, while in the long ranks of chrysanthemums is seen the highest possible attainment under skillful culture, with Col. Appleton, Mirza, Mrs. Jerome Jones, Mrs. Coombs, Timothy Eaton, Golden Wedding, Mrs. T. L. Park, Maud Dean and other accepted favorites of the exhibition hall. None of this year's novelties in chrysanthemums are being grown.

Mr. Montgomery points with pride to two magnificent houses of grafted Liberty roses, luxuriant of growth and bristling with buds, showing not the remotest suspicion of black spot or other blemish and attributes the earlier trouble with this variety to the impaired vitality resulting from over-propagation. Bon Silene he looks upon as one of the most profitable roses, the local fancy for this prime old favorite being very pronounced. Several of the older rosehouses have been planted to asparagus, the output from which is now heavy.

A three-mile drive to South Natick was enjoyed by the visitors, who found on their arrival at Bailey's Hotel a substantial dinner awaiting them. Alexander Montgomery filled the place as host, so many times occupied by Mr. Wood, and in his brief words of welcome spoke feelingly and eloquently of him who had been to him more than an employer—a loved friend and companion. Ed. Hatch officiated in his customary dignified and graceful manner as chairman and called severally upon the long-distance visitors as well as many of the local lights for remarks. Although naturally reminiscent

to a degree, the tone of the affair, as reflected in the speeches, was cheerful and buoyant and so the Waban visit of 1902 passes into history, like its predecessors, a happy remembrance to all who participated.

English Plant Notes.

Early in the year it was anticipated that florists would have a very busy and prosperous season, but things have not gone quite so well as we could have wished; yet I think trade might have been worse. Cut flower trade suffered a good deal more than plant business. One grower told me that he cleared out the largest quantity of Crimson Rambler roses he had ever grown, and at best prices, some plants making as much as \$5 each. I have been expecting to see the market over-stocked with this useful rose, but there are not yet many growers who succeed well with it. The main point is to avoid growing it too vigorously and to fully expose the plants and keep them dry, so as to well ripen the wood in the autumn. More depends on preparing them in the autumn than on the spring treatment. Several other climbing varieties have been brought forward but they have not been great successes.

A new tea rose that has been shown in good form is named Peace. It comes from G. W. Piper, the raiser of Sunrise, which, though not a large rose, is now one of the leading market varieties. At the autumn auction sales, market growers bid high for Lady Battersea. It is certainly worth the attention of all rose growers. Liberty also sold well, but many growers already had this in stock.

Zonal geraniums are much more used by florists than formerly and any good, bright-colored varieties are looked after. I think King of Denmark has been the most prominent in the market. It makes

varieties are early this season and quite a grand lot were exhibited in October. Two very large flowered Japanese sorts were certificated, namely Sir W. Acland and Lady Acland.

Begonia Turnford Hall is doing well this season. It makes quite as good a plant as Gloire de Lorraine. I think we shall hear very little more of Caledonia.

Bamboos are now favorite plants for decorations, the best being *B. aurea* and *B. arundinaria*, or *Arundinaria falcata*. They are very accommodating; any temperature suits them, and they last well indoors. II.

WITH THE GROWERS.

STORRS & HARRISON CO., PAINESVILLE, O.

A visit to the Storrs & Harrison Company, of Painesville, O., is at all times a pleasure to the majority of florists, and more especially to the Cleveland florist, who regards it as the Mecca of all the trade pilgrims of his state. The writer, in company with a number of the craft, paid the annual fall visit last week. To mention all the good things we saw would fill several columns; therefore I will have to condense matters and try and give the meat in a nutshell. The ever genial Robert George and his equally genial son took the visitors in charge and explained the "why and wherefore" of everything of note.

The first range visited was filled entirely with begonias, moonflowers, allamandas and such-like stock. Sixty varieties of begonias are grown, including the flowering and Rex varieties. Allamandas and moonflowers are produced by the thousands for catalogue trade. In this range 6,000 pieces were in prime condition, ranging from cuttings to 6-inch pots. The next range is given over to tea roses in 2½-inch pots, of which 200,000 are grown annually. An equal number of

with a good-sized truss, carried well above the foliage. It is called Julia Marlowe and is claimed to be one of the best single scarlets for bedding, not being affected by wet weather, like most of the single varieties. Several houses of palms are grown. A lot of 30,000 young kentias were looking remarkably well. One house is given to *Cycas revoluta*, mostly in 5-inch and 6-inch pots. The demand for this stock has been rather slow this past season. The demand for Boston ferns has exceeded that of other years and consequently a shortage is in sight.

Several houses of azaleas arrived in fine condition. The demand for commercial varieties is increasing every year. There is a decided shortage in varieties like Mme. Van der Cruyssen, *Vervæneana* and Simon Mardner. The trade doesn't seem to "get onto" the fact that there are other kinds just as good and which would sell equally as well. Two more houses were filled with hardy outdoor-grown roses potted up for wood for cuttings later on. Carnations for cuttings occupy another section. All the leading varieties are grown, for cuttings only.

Their entire range of glass comprises over 125,000 square feet. The outdoor stock takes up 1,200 acres. This season forty-five acres were planted to roses, all of which are sold, and 100,000 more could have been disposed of, so great is the demand. Fruit trees occupy 350 acres while 200 acres more are given over to ornamental shrubbery. Cannas occupy five acres and almost an acre is given to anemone culture, and these were a sight to behold. The entire patch was one mass of bloom. A variety which attracted a great deal of attention is Queen Charlotte. The flowers measure three and one-half to four inches in diameter, color a beautiful soft pink. This variety would no doubt be an excellent kind for cutting. It blooms from September until frost.

The immense potting sheds on this place cover over 25,000 square feet of floor surface. A fumigating plant has been attached to their cold storage houses, where all incoming tree stock is subjected to fumigating by hydrocyanic acid gas, thereby eliminating all dangers from San Jose scale. ECHO.

To Rid Chrysanthemums of Rust.

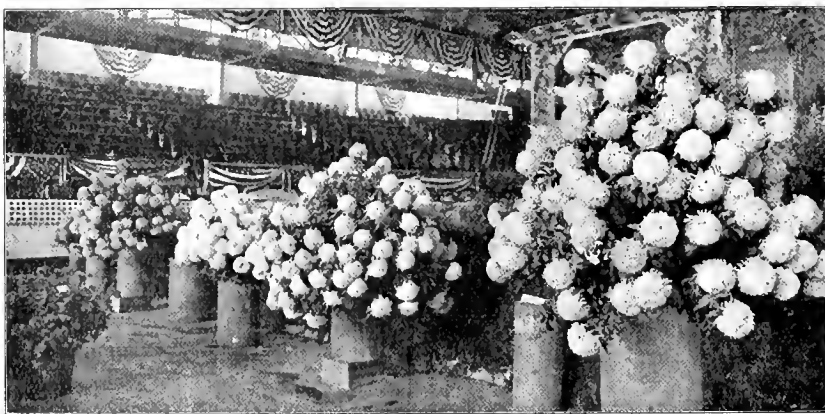
ED. AM. FLORIST:—Will you please outline the best course to pursue to rid chrysanthemums of rust or to prevent its recurrence another season if once established. C. J. P.

The chrysanthemum rust is likely to be most severe the first season or two after its introduction into a new locality. It is not a disease, however, that should cause alarm. Watchfulness and perseverance will generally master it rather speedily and in time exterminate it from an establishment.

If taken in the early stages, removing the affected leaves and destroying them, together with the fungus in them, by burning or hot water, taking care not to scatter the spores, will be sufficient to hold the disease in check. Spraying with Bordeaux mixture at the same time will greatly assist in keeping healthy leaves free from contagion.

If plants are badly rusted before aggressive measures are begun, it would be best to wholly destroy them, being careful, of course, not to scatter the spores.

The next season only sterilized soil or soil from an uncontaminated source should be used for the houses. Every



THE EXHIBITS OF 100 CHRYSANTHEMUM BLOOMS AT KANSAS CITY.

(The second vase from the right was awarded \$75 first premium.)

Photo by Davidson.

a grand plant and the soft salmon shade is most distinct and pleasing.

While talking about market plants, early flowering chrysanthemums are worthy of mention. We have some grand improvements in these. One grower secured three first-class certificates at the October meeting of the National Chrysanthemum Society and his exhibit included several other good new things. I noted Black Prince, Nellie Blake, Murillo, and Miss B. Miller as among the best. Myclett Glory is a grand market variety for pots. Large flowering Japanese

hybrids are raised from hardwood cuttings. *Asparagus plumosus* and *A. Sprengeri* occupy several small houses. One entire house is given over to *Begonia Gloire de Lorraine* and its several sports, all looking healthy, raised mostly from leaf cuttings.

Zonal and ivy-leaved geraniums occupy a number of houses. All the new varieties are given a thorough trial and only the very best retained. A single scarlet among the lot attracted the visitors' attention, which no doubt will be heard from later. It is a very free bloomer,



A FIRST PRIZE DINNER TABLE DECORATION BY OSTERTAG BROTHERS, ST. LOUIS.

means should be employed to grow strong, healthy plants. They should receive ample ventilation, should not be suddenly chilled, and should only be sprayed on days when the foliage will dry off readily. The last precaution is especially important. There need be no lack of moisture. Thorough syringing of the plants is a good thing, but it must only be done on bright days or when the ventilators can be opened, so that the surface of the foliage will be dry in a short time. To have the plants damp over night with stray spores floating about might undo all that had been gained by a whole year's precaution and labor.

If the fungus can be kept in check for a time, so that new crops of spores cannot be produced, the spores in the soil will gradually lose their vitality, and the disease finally wholly disappear, a quite feasible thing to accomplish in any establishment.

J. C. ARTHUR.

CARNATIONS.

MORE FACTS ABOUT STEM ROT.

I have been greatly interested in the recent articles on stem rot and its treatment. I believe the dry rot, caused by the fungus fusarium, is the most dangerous disease the grower has to combat, and I am convinced there is no cure for it. As surely as with leprosy in human beings, once in the system it will eventually prove fatal. To illustrate:

In September, 1901, we were short of G. H. Crane and bought 1,000 from each of two growers. When the plants came they were well-grown, vigorous stock, apparently free from disease. We had 1,000 Crane of our own growing but not such large, vigorous plants as those we bought. They were all planted in the same house, in exactly the same compost and received exactly the same attention. About a month after the house was planted dry rot developed in the plants we bought. The plants died, a branch at a time, until by April over fifty per

cent of them were gone, while we lost none of our own growing. Whether this disease was caused by the check the plants received from shipping and transplanting, or whether the taint was in the sap, I do not know.

Without changing any of the compost on the benches we replanted these Crane with Crocker, and did not lose any plants from dry rot, but did lose a few with rhizoctonia stem rot. So from my experience I drew the conclusion that the fungus fusarium is not transmitted through the agency of the soil, though I may be mistaken.

We have never had the dry rot in any varieties other than Crane and Jubilee. In a field of 60,000 carnations grown here the past summer, dry rot did not develop at all, but plants of Crane propagated from apparently vigorous, healthy plants in the 2,000-lot have developed dry rot badly since housing, while the plants propagated from the 1,000 that had no dry rot in them last year are nearly free from it now. From my experience I am convinced that the only way to combat this disease is by careful, intelligent methods of growing.

If a variety develops dry rot we do not want to propagate from a batch that has any affected plants in it, no matter how healthy some of the plants may be. If the taint is in the blood of that batch of plants, it will develop in the next generation. If a pet seedling is subject to it, the originator does not want to do himself and the trade the injury of disseminating it. We do not want to breed from a variety that is susceptible to it, for this weakness will be transmitted to the seedling. We do want to make health and vigor of constitution equal in desirability to every other consideration in the coming varieties if the carnation is to continue a profit and a pleasure to the grower.

W. S. DAVIS.

LYNN, MASS.—S. A. Davenport has two houses of chrysanthemums which make a fine display and serve to attract many visitors.

Chicago.

WEEK STARTS IN SATISFACTORILY BUT BAD WEATHER CUTS OFF CITY TRADE.—LOW GRADES PILE UP ON WHOLESALERS' HANDS.—ALL LINES SHARE IN THE DEPRESSION.—BEST STOCK STILL GOING OUT ON NUMEROUS SHIPPING ORDERS.—FLOWER SHOW MATTERS.—A VARIETY OF LOCAL TRADE JOTTINGS.

The week opened with the market somewhere near its normal condition. Monday found good supplies of stock and a brisk demand, both locally and out of town, but Tuesday began a spell of exceedingly unfavorable weather for the local flower trade, and since then the market has been largely dependent upon orders from outside sources. There is some little social activity locally, but this serves to make an outlet for only the higher grade material, of which there is seldom any great surplus. The congestion comes in the lower grades, which are usually handled by street salesmen and those who cater to a purely transient trade. With three days of very bad weather the market became badly overstocked in all lines. The one item which continued to move with something like its accustomed briskness was the Beauty, and even here there was a tendency toward weakening prices. The stock of all growers is very good in this item and it is noteworthy that all the prize winners at Kansas City were those whose stock finds its outlet in this market. But in general the buds are not now up to the usual standard in color. There has been little doing in tea roses since the beginning of the week, and carnations, too, have accumulated badly. Good fresh stock is still held up to quoted prices, but clean-upsales of day-old material are at very low rates, not infrequently as little as 5 cents per bunch. The violet has suffered in common with other lines, the production being remarkably heavy and sales slow. Qualities are very good and the retailers who cater to high class trade are willing to pay fair prices for the comparatively small quan-

titles selected out for their use, but what to do with ninety per cent of the receipts has been a problem so long as the inclement weather kept people off the streets. If anything, chrysanthemums have made a better showing than other items this week, but that does not imply anything more than a very low average. One source of disappointment will be the returns on Appleton. Everybody is growing it this year, and while much of the stock is very good, well grown Bonaffon has sold in preference in many cases. Ivory, white and pink, has been held fairly stiff in price because few are growing it this season. E. C. Amling has been receiving from the E. G. Hill Company some good stock of the new pink, Mlle. Marie Liger, which finds a warm welcome. Mr. Amling gives it as his opinion that, quality for quality, the chrysanthemum is averaging as good returns to the grower this year as last, although such was not the case at the opening of the season, and a good many wholesalers are not able to see it in that light even now. The flower show next week promises to make a demand for good stock, particularly in the line of novelties in roses.

N. J. Rupp, of the John C. Moninger Company, returned a few days ago from Louisiana, where he went to close a deal for something like a half million feet of high grade cypress of which the trust had not yet secured control. He bought it in the log and it will not be delivered for nearly a year and a half. Incidentally it is worthy of note that the Chicago price of 1½-inch clear cypress is \$48 a thousand feet, an advance of \$14 in the past three seasons.

At the executive committee meeting of the Horticultural Society of Chicago, held October 31, the poster committee reported progress and announced that the posters were being displayed all through the city. The committee on examination of exhibits was named as follows: Plants, C. J. Reardon and F. F. Bentley; cut flowers, Geo. W. Wienhoeber and John P. Risch; exhibits, W. N. Rudd, P. J. Hauswith and Ernst Wienhoeber.

Miss Florence Emmett, cashier at Deanud's, while returning to her home Wednesday evening, during the heavy rain, was passing over the Wabash Railroad tracks at Thirty-ninth street and, looking both ways to see if a train was coming, stumbled over an object which was afterwards found to be the headless trunk of a man who had been run over. The fright was so great that on reaching home she fainted.

A. Lang will have the flower booth at the show again this year. He says that a large part of the profit from the booth comes in gaining the acquaintance and confidence of out of town people, for he is building up a good business on mail orders for delivery here in Chicago and also for shipment.

Otto Wittbold and his stock are waxing fat and healthy in the clear, pure air at Edgebrook. Mr. Wittbold comes to town once a week to keep in touch with the requirements of the firm but puts in the rest of his time in the management of the new range of houses.

Kennicott Bros. Company is now getting the very best of results from the new cool room built last summer. The temperature is maintained naturally at 54° without the slightest variation and as a consequence stock stands at its best there.

Although Bassett & Washburn sent nothing to Kansas City they will make their usual showing at our own show next week.

C. M. Dickinson, manager at E. H. Hunt's, says the Dutch bulbs cleaned up in good shape this fall. He is now giving his attention to green and holly as the next seasonable item.

Anthony Warnemont, gardener to the C. B. & Q. railroad, at Aurora, was a visitor last Saturday and left us a fine bunch of Burlington, his white seedling chrysanthemum.

The sale of the Retzer stock was begun in the downpour on Wednesday, but there was a good crowd present and fair values were realized, considering all conditions.

Lee Walz has been at Kansas City this week putting up work in the show there for John Mangel, who is catering to an out of town business.

Gunnar Teilmann, of Marion, Ind., was in town for a few hours Wednesday enroute home from a brief visit to Kansas City.

O. P. Bassett was at Aurora Tuesday, looking at a factory site to which he is thinking of removing his printing plant.

Daniel Branch is building two small iron frame greenhouses on the roof of his store at Fortieth and Indiana avenue.

Bentley & Company are having a fine cut of the prize winners. They will exhibit at the Art Institute next week.

John Schoepfle & Company have a neat place at 1431 Belmont avenue, with store and three greenhouses well stocked.

A. L. Randall says the horse show did not help the violet market anywhere near equal to his expectations.

Poehlmann Brothers are more than pleased with results in their new Beauty houses this dark weather.

Frank Garland has boxed up the usual incomprehensible number of bulbs for spring.

McKellar & Winterson are handling some good bouvardia, pink and white.

The Washington Floral Company has a neat store at 27 State street.

Weiland & Risch are getting Mrs. Lawson in mid-winter form.

George Reinberg's cut is remarkably steady this season.

C. L. Washburn begins to feel more like himself again.

Wietor Brothers are cutting extra La France and Ivory.

Mrs. C. A. Fiske has bought out I. C. Silliman.

J. A. Budlong is cutting some choice Meteors.

Philadelphia.

OPENING OF THE NEW WHOLESALE MARKET.—RECEPTION ATTENDED BY SEVERAL HUNDRED INTERESTED PEOPLE.—RETAILERS WISH THE MARKET WELL.—THE PRESIDENT SPEAKS.—BUSINESS FAIR BUT STOCK PILES UP.—VARIOUS NOTES.

The introductory reception of the Philadelphia Wholesale Flower Market, held Thursday evening, October 30, was a success in every sense of the word. The number of ladies and gentlemen present was estimated to be at least 500. The room was handsomely decorated, H. C. Geiger, of the Floral Exchange, being the artist. R. Craig & Son, Julius Wolf, Jr., H. H. Battles and Westcott Brothers contributed plants and flowers. Messrs. Jos. Heacock, H. A. Dreer and W. K. Harris arranged each a large group of plants for exhibition. The entertainment pleasure was enjoyable. The A. D. T., "all day tired" messenger boy, was very realistic. Horace Dumont sang his solos in fine style; his voice is certainly a treasure. Albert G. Campbell also sang well. Pres-

ident Jos. Heacock read his address, which was as follows:

It gives me great pleasure to welcome you here to-night in the name of the Philadelphia Wholesale Flower Market. We are glad to see you take so much interest in an enterprise, the beginning of which I believe to be the mark of a new era to the Philadelphia florist, be he grower or retailer, and the advance of which will be as great as that of fifteen or twenty years ago, when the steam boiler and steam pipes superseded brick flues. We are told by those older in the business than I am, of the good old time when all one had to do was to grow the flowers and at sunrise he found the retailers at his gate begging for a chance to buy them. We all know how things have changed since then, until now the grower goes around seeking the man who wants to buy, and how often he misses him. You have doubtless all had the experience, after having hunted for someone in a crowd, and having at last given it up in despair and stood still, of having the one whom you sought all at once find you. This is just our case. While we have been hunting someone to buy our flowers, and have found him with more or less success, we have frequently missed him, much to the loss of both parties, and now we propose to have the product of our greenhouses in this beautiful, well lighted room at 7:30 next Saturday morning, and on every morning thereafter, Sundays excepted.

We have all felt the need of just such a market—a central place where buyer and seller could find each other and do far more business in an hour than could heretofore be accomplished in a forenoon, and do it far more satisfactorily to both parties. New York has two and Boston one such market. Philadelphia, proverbially slow, is at last awake and has the experience of her sister cities by which to profit. Philadelphia, with her million inhabitants, is going to support such a market. There is no question about that, and any grower who is not here at the start will be ashamed to let his descendants know it.

Our enterprise is of a healthy growth. Little did we think of such a company as this three months ago, chartered by the state of Pennsylvania, with a capital of \$20,000. Our plans were humble. We said if we could only get half a dozen growers to bring their flowers to a central place, the market would be a success. Whomever we talked with about it seemed to be in favor of it. We then decided to have some capital, and thought \$5,000 would be ample, and then it developed into \$10,000, and finally stopped at the present figure. It seemed the larger we made it the more determined the growers were to have some of the stock, until now there are but a few shares left, and all the shares sold are held by those actually in the business of growing flowers, or growing or dealing in plants, trees, shrubs, seeds, bulbs and other merchandise of the general flower business for purposes of commerce, and our by-laws are so drawn that no other person can ever hold shares of stock in the company.

I feel that I would not be just to whom honor is due if I did not speak of the valuable work done by Samuel S. Penock at the beginning of this project. Indeed, if it had not been for his earnest co-operation and services this market would not be started at this time. It seems like the irony of fate that Mr. Penock should be excluded from any part in the company, after having done so much for it, and all because he is a dreaded commission man! David Rust also rendered us most valuable assistance at a time when it was very difficult to get.

In conclusion, allow me to congratulate all interested in this market on our having procured the valued services of Charles Meehan as manager. Mr. Meehan is well known to all of you, and his character, ability and impartiality means success to the enterprise.

Robert Craig was the orator of the evening and reviewed the business from his coming into it until the present and predicted great success for the market. Robert Kift spoke for the retailers. He said that while he felt the market was sure to come, yet he had hardly hoped to live long enough to see it. As an evidence of what other retailers thought of the movement he presented a number of baskets and bouquets with cards bearing appropriate remarks and best wishes, some fifteen in all. The reception wound up with refreshments, dancing and all present voted that it was the finest gathering of the trade ever held in this city.

The November meeting of the Florists' Club came near being a two-day affair, but was finally pulled off about 11 p. m. The feature was the address of Samuel C. Moon, whose subject, "The Importance of Hardy Plants to the Florists' Trade," was handled in a very interesting manner. Mr. Moon is a very magnetic speaker and held his audience until

the end, when he received rounds of applause. His remarks were mainly on the planting that should be done for the future and not so much just for the present. He said that oak trees in a series of years would catch up and pass those of apparent quicker growth, such as poplars and sugar maples. He also spoke of how necessary it is for the retail florist to know something about the evergreen trees that enter so largely into the decoration of city houses during winter. He closed by inviting the club to take an outing and visit his nursery at Morrisville next June.

While there is quite a little business doing, on account of the great stock of flowers now coming in, it seems dull, as the flowers will pile up. Carnations are hard to move and are sold at very low prices, from \$1 to \$1.50. Beauties still hold up; \$1 to \$4 is the price. Teas range from \$4 to \$5 per hundred. Chrysanthemums move fairly well at from \$6 to \$16 per hundred.

Wm. C. Smith, of Sixteenth and Market streets, met with a serious loss by fire on Sunday morning, November 2, his dwelling house being thoroughly gutted, although most of the furniture was saved. His wife was giving their two children a bath in the second story and had barely time to escape. The loss is covered by insurance.

The Market opened November 1 at 7:30 with eighteen growers in attendance and all sold out in a short time. Each day shows an addition to the growers' ranks and also brings more buyers, and when flowers get a little scarcer there will certainly be some hustling about Thirteenth and Cherry streets.

Secretary Rust says the show is going to be a record breaker and that it will be worth coming miles to see. There is to be a smoker on Wednesday, November 12, free to members of the club and visiting craftsmen.

Herbert Steinmetz, of Jos. Kift & Sons, was married October 5. Barney Goldriek, George Anderson's hustler, has also entered into wedded bliss.

S. A. Baur, of Erie, Pa., was a visitor to the market last Saturday. K.

New York.

MARKET CONTINUES BADLY DEMORALIZED.—LITTLE STABILITY TO VALUES.—A CHILDREN'S EXHIBITION.—MANY VISITORS.—VARIOUS NOTES.

The unfortunate stagnation noted in last week's report of the cut flower market in this city continues in an aggravated degree and wholesalers who handle any large quantity of stock are exceedingly despondent over the prevailing conditions. The trouble is due to a number of causes and will, it is hoped, be remedied as soon as election excitements, chrysanthemum surplus and beautiful balmy weather are things of the past. In the meantime prices are completely demoralized on everything, regardless of quality, and the retailers are able to make perfect dreams of beauty of their windows at a trifling cost.

In addition to the list of visitors at the exhibition, as given last week, were the following: E. Lundberg, A. H. Wingett and E. J. Norman, Lenox, Mass.; Chas. Scrim, Ottawa, Ont.; John Chambers, Toronto, Ont.; Phil. Breitmeyer, Detroit; J. F. Huss and Theo. Wirth, Hartford, Conn.; and S. Alfred Baur, Erie, Pa.

A very successful exhibition of plants grown by children was made last Friday afternoon at the Berkeley Lyceum. Out of 4,000 plants distributed last spring by

the Plant, Flower and Fruit Guild, several hundreds were returned for exhibition and prizes consisting of buttons and badges were lavishly awarded to the little gardeners.

A man who has been stealing flowers from J. Donaldson and other Long Island growers has been arrested and held for the grand jury.

Henry Weber, of Oakland, Md., had the misfortune to have his overcoat stolen at the Madison Square Garden exhibition.

George Valliano, who has been conducting a flower business at 2391 Broadway, has gone into bankruptcy.

Next week the American Institute chrysanthemum show will be on at the Berkeley Lyceum building.

Boston.

MARKET BADLY DEMORALIZED.—FEW ITEMS MAKE ANY SORT OF ADEQUATE RETURN.—CARNATIONS SUFFER MOST OF ALL.—FINE FALL WEATHER MAKES PARKS ATTRACTIVE.—VARIOUS NOTES OF VARIED INTEREST.—PERSONAL AND OTHER JOTTINGS.

Boston is undergoing a deluge of flowers this week such as rarely comes, even at this, the full-tide of chrysanthemum time. The queen of autumn has smashed the market completely for every flower, including itself, but if any one specialty can be named as suffering a worse relapse than all the others it is the carnation. It is not possible to find a market for the cut at present and the stock sold is disposed of at a figure that will bring little comfort to the grower. In roses the same conditions prevail, except in the case of Bride, which manages to do a little better than the others. Dealers make an effort to maintain nominal prices on fresh goods of the first grade and a few are sold accordingly but a large percentage of the stock is held over for one or two days before being unloaded and then it has to go at rubbish values. Although there is no question but that a change to appropriately cold and cheerless November weather would bring a little life to the business, yet it is generally accepted that but little real improvement can be looked for until the rampant chrysanthemums are out of the way, so a few weeks of patience must be exercised.

The salubrious weather we have been enjoying has been bringing forth quite a showing of precocious spring flowers. Forsythias at the Arboretum are blooming to some extent and wild strawberries, blueberries and other spring bloomers of like character are frequently found. The fruiting shrubs are well covered with fruit this fall. Barberries, euonymuses, celastruses and hawthorns are remarkably fine along the parkways.

The Floral Emblem Society of Massachusetts met at Faneuil Hall last Friday and discussed their favorite theme in the old-fashioned Boston way, with speeches, music and recitations. It transpired that the popular candidate for state flower at present is the mountain laurel.

It is announced that Wellesley College, ever-progressive, contemplates the establishment of a department of gardening for young women. Certainly no other institution of its kind in America has better facilities for the successful conduct of such a work.

It is pleasant to learn that Lillian Pond, the sterling white carnation of this market, came out on top at the New York exhibition. This carnation is manifestly worthy of all the confidence reposed in it last year, being even finer this year than last.

On Sunday morning, November 2, a storage shed and contents belonging to E. D. Kaulback was burned. The loss is partially covered by insurance.

The chrysanthemum show of the Massachusetts Horticultural Society opens on Thursday of this week. Particulars next week.

David Robinson, an old-time gardener, died at his home in Everett on October 30, aged 81 years.

Visitors: S. J. Reuter, Westerly, R. I.; Wm. R. Smith, W. F. Gude and A. Gude, Washington, D. C.; Henry Hurrell, Summit, N. J.; H. Dailedouze, Flatbush, N. Y.

Pittsburg.

BUSINESS FAIR AND MANY ORDERS BOOKED AHEAD.—STOCK PLENTIFUL IN ALL LINES.—A VARIETY OF PERSONAL AND TRADE NOTES.

October was a good month for us, as there were many occasions that required elaborate decorations. November will be a record breaker, as many wedding orders have been booked and transient business is good. There are liberal quantities of all kinds of stock to be had and the prices are generally right. The home growers are doing nobly, for in many respects they have the upper hand on the shippers, particularly as to rose qualities. Chrysanthemums are plentiful, including all the best varieties. Carnations are larger and the stems longer. Paper White narcissi are beginning to appear. Greens of different kinds are plentiful but a little higher in price.

Carl Klinke, chief bookkeeper for the Pittsburg Cut Flower Company, is confined in the Mercy Hospital with typhoid pneumonia.

Randolph & McClements have received from Europe a number of Kentia Belmoreana ranging in height from eight to twelve feet.

Florists will profit by a visit to H. C. Frick's houses, which will be open to the public for a month or so.

Frank Wolfe, of Denver, a former employe of P. S. Randolph, is visiting friends in Pittsburg.

It is claimed that 30,000 people visited the show in Schenley Park last Sunday.

Blind Brothers are in with an early lot of fine Gloire de Lorraine begonias.

Charley Hoffmeyer's chrysanthemums are of the prize-winner class.

Arthur Hall, of A. W. Smith's, is down with typhoid fever. E. L. M.

Grand Island, Neb.

Brewster & Williams have just completed an addition to their range, a house 18x116 for vegetables. In the four years this firm has been in business they have increased their glass from 2,000 feet to 10,000 square feet. They are now cutting some fine single-stemmed chrysanthemums, of which they grow 1,500 and 900 for pot plants. They are getting ready to put up horse radish, for which there is a good demand. Trade has been fair. Funeral work has kept stock cleaned up.

BINGHAMTON, N. Y.—Augustus Osier has opened a flower store at 72 Court street.

NORWALK, CONN.—John W. Curnow has closed up his greenhouse on Fair street and gone out of business.

EVANSVILLE, IND.—Wm. Blackman has been in the flower business for thirty years. He has a range of eleven greenhouses, containing 40,000 feet of glass.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements on all except cover pages,
10 Cents a Line, Adage; \$1.00 per inch.
Cash with C. order.

No Special Position Guaranteed.

Discounts are allowed, only on consecutive inser-
tions, as follows—6 times, 5 per cent; 13 times,
10 per cent; 26 times, 20 per cent;
52 times, 30 per cent.

Cover space sold only on yearly contract at
\$1.00 per inch, net, in the case of the two
front pages, regular discounts apply-
ing only to the back pages.

The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines only.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday
to secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

THE daily press seems determined that
there shall be a trust in the cut flower
business.

EVERY florist, wholesale or retail,
should seek to build up a business beyond
the limits of his own city. A shipping
trade is among the most valuable assets
of any firm.

The mailing label on your paper shows
when your subscription expires; when
you send your renewal note that the
date changes within two weeks; it will
serve as your receipt.

WHILE it may be true that the chrys-
anthemum takes a part of its value
out of other flowers in the market, and
not a little of it out of the American
Beauty, were it not for breaks in the
monotony would not the public tire of
the staples?

THE new yellow rose Franz Deegen
exhibited at Kansas City November 6, by
the South Park Floral Company, and at
Boston November 7, by E. G. Asmus,
won a gold medal for the former and a
silver medal for the latter. It is to be
next season's candidate for public favor.

Greenhouse Building.

Chicago, Ill.—Daniel Branch, two plant
houses.

Grand Rapids, Mich.—Crabb & Hun-
ter, three houses 30x300.

Niles, Mich.—Michigan Central R. R.,
range of houses.

Greenfield, Mass.—C. Hazelton, con-
servatory.

South Sudbury, Mass.—Frank W.
Goodnow, eucumbur house.

Fairhaven, Mass.—H. H. Rogers, con-
servatory.

Solid Soil for Roses.

ED. AM. FLORIST:—Would it be advis-
able to tramp down the soil on our rose
benches? It does not seem to get solid
enough for roses and the grub worms
are working into it, but it is also loose
where there are no grubs. If this should
be tramped down would it be best to wet
it a little first to make it more solid, or
would it harm the rose roots or bushes?
B.

The soil in rose beds should be made
firm by either tramping with the feet or
pounding it with a brick or block of wood,
whichever may be most convenient. Roses
require a good, firm soil for their roots
and when the whole is made fairly solid,
which should be when the soil is slightly
on the dry side, the surface should be
lightly raked over with a blunt, short-

toothed rake, just enough to make the
surface even, after which a good soaking
of water might be given to start the
roots into active work.

JOHN N. MAY.

Hail Losses in October.

The Florists' Hail Association has
adjusted and paid during the month of
October, 1902, the following losses:

D. Grimes, Denver, Colorado.....	\$ 75.04
Wm. M. D. Eggling, St. Louis, Mo.....	560.10
Mrs. Margaret Ballard, Perry, Iowa.....	5.95
C. Hutchinson, Des Moines, Iowa.....	22.90
Wm. Mackle, St. Louis, Mo.....	10.26
Henry Johann, Collinsville, Ill.....	82.20
Michel Plant and Bulb Co., St. Louis, Mo.....	155.70
Chas. A. Juengel, St. Louis, Mo.....	25.50
Henry Eggert, E. St. Louis, Ill.....	27.58
Missouri Botanical Garden.....	122.64
Fred. Huke, St. Louis, Mo.....	17.80
J. R. Deighton, St. Louis, Mo.....	31.43

JOHN G. ESLEK, Sec'y.

Coming Exhibitions.

[Secretaries are requested to supply any omis-
sions from this list.]

BALTIMORE, MD., November 10-14, 1902.—Chrys-
anthemum show Gardeners' and Florists' Club of
Baltimore. Jno. J. Perry, Sec'y, Gay and Eager
streets.

CHICAGO, ILL., November 11-15, 1902.—First
annual exhibition Chrysanthemum Society of
America and twelfth annual exhibition Horti-
cultural Society of Chicago, to be held jointly. E.
A. Kanst, Assistant Secretary, 5700 Cottage Grove
avenue, Chicago.

ELMIRA, N. Y., November 11-12, 1902.—Chrys-
anthemum exhibition Elmira Horticultural Society.
Flora Swift, Sec'y.

HOUSTON, TEXAS, November 18-19, 1902.—Chrys-
anthemum show Faith Home Association. M. E.
Bryan, Sec'y, 1619 LaBranch street.

LOUISVILLE, KY., November 12-15, 1902.—Chrys-
anthemum exhibition Business Women's League.
H. Nanz, superintendent, Louisville, Ky.

MANCHESTER, MASS., November 11, 1902.—Chrys-
anthemum show North Shore Horticultural
Society. Jas. Salter, Sec'y pro tem.

MARSHALL, TEX., November 13-14, 1902.—Annual
flower show East Texas Floral Association. W.
L. Martin, Sec'y, Marshall, Tex.

NEW HAVEN, CONN., November 11-13, 1902.—
Annual flower show New Haven Horticultural
Society. Thomas Pettit, Sec'y, 316 Orange street.

NEW YORK, N. Y., November 12-13, 1902.—
Exhibition of American Institute. Dr. F. M.
Hexamer, Sec'y, 52 Lafayette place, New York.

PHILADELPHIA, PA., November 11-15, 1902.—
Annual autumn exhibition Pennsylvania Horti-
cultural Society. David Rust, Sec'y, Horticultural
Hall, Broad street below Locust, Philadelphia.

POTOMAC, N. Y., November 11-13, 1902.—
Flower show Dutchess County Horticultural
Society. N. H. Cottam, Sec'y, Wappingers Falls,
N. Y.

PROVIDENCE, R. I., November 13-14, 1902.—
Chrysanthemum exhibition Rhode Island Horti-
cultural Society. C. W. Smith, Secretary, 27-29
Exchange street, Providence.

ST. PAUL, MINN., November 10-12, 1902.—Chrys-
anthemum and orchid exhibition Ladies Auxiliary
of the Northwestern Manufacturers' Association.
Mrs. A. P. Moss, Sec'y.

TARRYTOWN, N. Y., November 11-13, 1902.—
Fourth annual exhibition Tarrytown Horti-
cultural Society. Edw. W. Neunbrand, Sec'y, Tarry-
town, N. Y.

WACO, TEXAS, November 12-15, 1902.—Chrys-
anthemum show Texas State Floral Society. J. W.
Barnett, Sec'y, Waco.

To Rid Rose Bushes of Thrips.

ED. AM. FLORIST:—Kindly inform me
through your paper what can be done to
clean rose bushes in the field which are
infested with thrips. My Kaiserins, in the
open near Philadelphia, are as fine as
possible but out of hundreds of buds cut
practically none were salable on account
of thrips.
J. H. B.

To destroy thrips in the open air is
rather a difficult matter, particularly
during a wet season. So far as my expe-
rience goes, the best remedy is to make a
solution of tobacco in which some Per-
sian insect powder is mixed and keep the
rose bushes thoroughly syringed with it
every other day for two or three weeks,
or until the pests are exterminated, which
usually takes five or six applications.
To make the above, take a good bunch

of tobacco stems, steep them in cold
water for twenty-four or thirty hours,
drain all the liquid out and add half an
ounce of the powder to each gallon of
liquid. Keep it well stirred while apply-
ing and syringe every part of the plants
thoroughly after the sun has gone down.
If applied when the sun is shining brightly
the leaves are apt to be burned.

JOHN N. MAY.

Chrysanthemum Society of America.

The seedling committees of the C. S. A.
meet each Saturday until the end of
November, as follows:

Boston, Mass.—E. A. Wood, chairman,
care of Boston Flower Market, Park
street; James Wheeler, William Nichol-
son.

New York, N. Y.—Eugene Dailedouze,
chairman, care of New York Cut Flower
Company, Twenty-sixth street and Sixth
avenue; James W. Withers, William H.
Duckham.

Philadelphia, Pa.—A. B. Cartledge,
chairman, 1514 Chestnut street; William
K. Harris, John Westcott.

Chicago, Ill.—James S. Wilson, chair-
man, care of J. B. Deamud, 511 Wabash
avenue; George Stollery, E. Wienhoeber.

Cincinnati, O.—Albert Sunderbruch,
chairman, care of Cincinnati Cut Flower
Company, 437 Main street; James B.
Allan, E. G. Gillett.

Exhibits to receive attention from the
committees must in all cases be prepaid
to destination, and the entry fee of \$2
should be forwarded to the secretary not
later than Tuesday of the week preceding
examination.

Anyone having a variety in season
after dates fixed, can have the same
passed upon by specially notifying the
the chairmen of committees.

Poor Results With Phalaenopsis.

ED. AM. FLORIST:—I have a house of
Phalaenopsis Schilleriana and P. amabilis
which make fine growth, this summer
being no exception to the rule, each plant
having from six to seven leaves and now
showing flower spikes. But I don't get
a nice spike of flowers. There are twelve
to fifteen buds on each spike, but only
four or five open at the same time and
fade after four days, where they should
last for weeks. What could be the cause
of this?
L. H.

The symptoms described point to a lack
of something in the way of nourishment,
to put vigor into the plants to enable
them to produce good spikes and support
them when on the plants. The case is
usually reversed in the experience of most
cultivators of phalaenopsis; that is to
say, the plants produce spikes of bloom
beyond their power of supporting and,
owing to being without the physical
support of pseudo-bulbs, the leaves are
often cast off to enable the plant to
recuperate.

If in this case good healthy leaves are
produced, proving that atmospheric con-
ditions are all right as far as tempera-
ture and moisture are concerned, the
experiment should be tried of atmos-
pheric feeding, a sprinkling once a week
underneath the plants, of drainage from
the horse or cow barn, preferably the lat-
ter, as it is not so pungent and still con-
tains four-fifths of the manurial elements
or salts that come from that source.
Before using it may be diluted consider-
ably, though it may be used for vaporizing
at a strength that would kill everything
it touched if applied directly to the plants.

The Cookson formula might also safely and profitably be used for watering; it nourishes and provides just the needed amount of stimulus to keep orchids on the up grade, and is suitable for all kinds.

There is no reasonable doubt that most of the thousands of orchids imported that have deteriorated have been literally starved to death, especially *Laelias* and *cattleyas*, which are gross feeders, if cultivators could only realize it, and apply the doses in a homeopathic way by making the same easily assimilated and applying every time the plants need water. We keep Cookson's stock solution in a tank under the benches and a Kinney pump is attached to the faucet over it, so that even when spraying overhead the plants are treated to food and drink at the same time. If anyone doubts the value of it they should see how seed and seedlings of orchids thrive under this system. E. O. ORPET.

OBITUARY.

CHARLES H. MILLER.

Charles H. Miller, landscape gardener, of Philadelphia, died November 2 at his home in Mount Airy. Mr. Miller was born in Manchester, England, in 1829. He studied landscape gardening and was graduated at the Royal Gardens, Kew. Mr. Miller came to America in 1858, his first charge being in South Carolina. Before long he removed to Philadelphia, where he made his home permanently. Mr. Miller was an expert in his profession, as evidenced by the many beautiful private estates which were planned and laid out under his supervision something over twenty-five years ago. He was appointed consulting landscape engineer at Fairmount Park. For the Centennial Exposition he was made chief of the bureau of horticulture, which gave him an opportunity to display his talents, and the grounds were laid out under his directions. The sunken terrace in front of Horticultural Hall, planned by him, has always been much admired. Mr. Miller founded the tree and nursery business of Yates & Company, the firm name being Miller & Hayes, then Miller & Yates. Mr. Miller finally withdrew in 1887 and devoted his whole attention to his profession. He was always prominent in the affairs of the Pennsylvania Horticultural Society and was a vice-president at the time of his death. He leaves a widow and two daughters.

K.

Denver.

VISIT TO A BUSY AND SUCCESSFUL YOUNG GROWER.—SPLENDID CHRYSANTHEMUMS.—STATE OF TRADE.—PERSONAL AND OTHER NOTES.

Geo. Brenkert, one of our hustling young growers, invited several of his friends among the trade to spend an evening with him last Wednesday. We took occasion to look around and found his place in tip-top shape for the coming season. His best thing is a house of chrysanthemums containing about 8,000 flowers of the best varieties, Timothy Eaton, Appleton, Robinson, Viviani-Morel and Golden Wedding being grand. They are the finest lot to be seen in the city and he is particularly fortunate in having them late, as aside from Robinson he would not have to cut till Thanksgiving day. Eaton and Appleton will hold on till Christmas. His carnations look

good and strong, with a small cut at present but very promising later on. Mr. Brenkert is a Detroit boy and came here about six years ago, going to work for the Colfax Avenue Floral Company, with whom he staid for four years, when he took the Waterbury place at University Park. With his ability to hustle he has the place in grand shape and deserves a good season for his work. We were treated to a liberal spread besides an enjoyable evening of music.

J. A. Valentine, president of the Park Floral Company, is confined to his bed with a very painful illness. He had intended taking in the flower show at Kansas City this week, but began ailing about ten days ago and the last week has been in bed. It will be some time before he is around in good shape again.

Trade is fair, with supply of stock ample, chrysanthemums being in rather heavily at present, although as the season advances and the better ones come on, they go better. What few Eatons and Appletons have come in sold well.

The Daniels & Fisher Stores Company will hold their chrysanthemum show at their store Wednesday and Thursday of this week. B.

CLARINDA, IA.—R. L. Wilson has purchased the John Glazby greenhouse property here for \$4,000.

WHITMAN, MASS.—David B. Younger, an employe of Robt. E. Moir, died at the home of Mr. Moir on October 28, after an illness of several months.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By a gardener, on a private place; competent grower of cut flowers, plants and exhibition stock. Address A. O. W., care American Florist.

WANTED—Man for general greenhouse work; state wages wanted. Address F. BEP., 2780 North 40th Ave., Chicago.

WANTED—Single man for general greenhouse work; must have experience. State wages, with board. M. I. O'BRIEN, Sharon, Pa.

WANTED—An artistic floral decorator used to first-class trade. Must have best reference. Address A. WARENDORFF, 1193 Broadway, N. Y.

WANTED—A young man that understands the care of palms and ferns. Apply at once to SMITH & FETTERS, 148 Euclid Ave., Cleveland, O.

WANTED—Experienced carnation grower at once. Good wages and steady position to the right party. Address J. P. THOMPSON CARNATION CO., Joliet, Ill.

WANTED—At once, experienced carnation grower; single; German preferred. Address N. ZWEIFEL, Cor. 14th St. and Groeling Ave., Milwaukee, Wis.

WANTED—A young man that has had some experience in greenhouse work; must be sober, honest and good worker. State wages with board, and references in first letter. FRED. J. KING, 220 Madison St., Ottawa, Ill.

FOR SALE OR RENT—6,000 ft. of glass, dwelling, sheds, etc. Bonanza for little cash. Be quick. DR. M. FARLAND, White Hall, Ill.

FOR SALE—Horizontal tubular boiler 48x15 with plug hat dome and with 39 3/4-in. flues, very suitable for heating hot houses. Apply to WISCONSIN BOX CO., Wausau, Wis.

FOR SALE—\$1,000 buys the best greenhouse and equipment in Northern Iowa. Located in city of 15,000; easy terms, but must sell quick. A big chance to make money. Address MAHER & MAHER, Fort Dodge, Iowa.

FOR SALE—An old established greenhouse business; entire plant rebuilt; steam heat. With all the ground or part; also with or without residence. Situated in Cleveland, O. A bargain. Address O. K., care American Florist.

FOR SALE—FLOWER STORE—Good will of business, fixtures and stock of finely located retail store on one of the most fashionable thoroughfares in the city of Chicago. A snap for energetic party. Small capital. Address NASH, care American Florist, Chicago.

Wanted, Immediately,

Live man to manage high class cut flower store in Northwest. One who is thoroughly experienced in all branches of the trade.

Address D. B., care American Florist.

Wanted, To Rent,

for 5 or 10 years with intention of buying, on May 1st, 1903, 20,000 to 25,000 sq. feet of glass within 40 miles or less of Chicago. No stock wanted. Hot water heat. Everything must be in good condition. Good R. R. connection necessary. Send particulars to F. P. B., care American Florist.

FOR SALE

Special Order No. 9

KROESCHELL BOILER

At Half Cost.

GEO. SOUSTER, Elgin, Ill.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address

Lock Box 11, CHAS. CHADWICK, Grand Rapids, Mich.

Wanted, Manager

One who is competent to grow all kinds of Fruit and Ornamental Trees, Shrubs, Roses and Herbaceous Stock. Must understand the handling of men, have push and energy and be up-to-date in the growing of all different kinds of nursery stock. Also the packing, cellaring and shipping. To the right party this is an excellent opportunity. Address with references.

E. W. R., care American Florist.

FOR SALE.

7,000 sq. feet 10x14 double thick glass.
5,000 sq. feet 16x24 double thick glass.
1,000 sq. feet 7x9 single thick glass.
1,000 sash bars; 75 hot bed sash.
7,000 feet 2-inch wrought iron pipe.
1,000 feet 1-inch wrought iron pipe.
2 Gurney, 2 Lydia, 2 coil boilers.

JAMES BURNS,
41 SECOND ST. EVERETT, MASS.

If you want to get the want you want to get, you want to get your want ad into the

AMERICAN FLORIST

Try it now.

Every advertisement represents a genuine want. It pays to answer them.



No 1. \$2.50
 No 2. \$3.25
 No 3. \$3.75
 No 4. \$4.50
 No 5. \$5.00
 No 6. \$6.00

Caldwell's Quality Kounts Brand
Wild Smilax now on hand.

WHEN you want Flowers, any and all kinds, order from DEAMUD. He has in quantity the following:
ORCHIDS, Valley, Violets, Beauties, Tea Roses, Carnations, Chrysanthemums.
J. B. Deamud,
 51-53 Wabash Ave., Chicago.

E. H. Hunt,
WHOLESALE.....
Cut Flowers
 THE "OLD RELIABLE,"
 76 Wabash Ave., CHICAGO.
Poehlmann Bros. Co.
 Wholesale Growers of
 and Dealers in **Cut Flowers**
 All telegraph and telephone orders given prompt attention. 35-37
 GREENHOUSES: Morton Grove, Ill. Randolph Street, CHICAGO, ILL.

The F. R. WILLIAMS CO.
WHOLESALE FLORISTS.
 Brides, Maids, Meteors, Carnations, Cut Adiantum, Gelax, Common Ferns and Florists' Supplies.
 Telephone Connections. CLEVELAND, OHIO.

Bassett & Washburn
 76 & 78 Wabash Ave., CHICAGO.
 Wholesale Dealers and Growers of **Cut Flowers**
 GREENHOUSES: HINSDALE, ILL.

McKELLAR & WINTERSON CO.
 Supply Everything Used by Florists, Nurserymen, Gardeners, Seedsmen..... Cemeteries, Parks, Etc.
HEADQUARTERS on CUT FLOWERS
 45-47-49 Wabash Ave.
 Telephone Main 1129. ...CHICAGO

Wholesale Flower Markets

MILWAUKEE, Nov. 6.

Roses, Beauty, long, per doz.	2.00@2.50
" " med. "	1.00@1.50
" " short "	.50@ .75
" Liberty.....	6.00@ 8.00
" Bride, Bridesmaid.....	4.00@ 5.00
" Meteor.....	4.00@ 5.00
" Golden Gate.....	4.00@ 5.00
" Perle.....	2.00@ 5.00
Carnations.....	1.00@ 3.00
Violets.....	.75@ 1.00
Chrysanthemums, 1.00@2.50 per doz.	
Adiantum.....	.75@ 1.00
Smilax.....	12.00@15.00
Asparagus.....	65.00
Common ferns.....	.25

The Cincinnati Cut Flower Co.,
 437-439 Main St. CINCINNATI, O. **WHOLESALE FLORISTS.**
 Consignments Solicited. Special Attention Given to Shipping Orders.

BOUQUET GREEN
 Best quality at lowest rates. We gather our own GREENS and bring by our own boat direct. Also CHRISTMAS TREES.
 Northern Michigan Evergreen Nursery,
 SCHOONER TRUMAN MOSS, S. W. Cor. Clark St.
 H. Schuenemann, Capt. Bridge, CHICAGO.

PITTSBURG, Nov. 6.

Roses, Beauty, specials.....	25.00@30.00
" " extras.....	20.00@25.00
" " No. 1.....	15.00@20.00
" " No. 2.....	5.00@ 8.00
" Kaiserin.....	2.00@ 8.00
" Bride, Bridemaid.....	2.00@ 6.00
" Meteor.....	2.00@ 6.00
" Liberty.....	2.00@ 8.00
Carnations.....	1.00@ 2.00
Chrysanthemums.....	6.00@20.00
Lily of the valley.....	2.00@ 4.00
Violets.....	.50@ .75
Smilax.....	6.00@15.00
Adiantum.....	.75@ 1.00
Asparagus.....	35.00@40.00
" Sprenger.....	2.00@ 3.00

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.
Michigan Cut Flower Exchange.
 Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around.
 BRONZE GALAX, \$1.00 per thousand.
 26 Miami Ave.. DETROIT, MICH.

RICE BROTHERS
 WHOLESALE FLORISTS and FLORISTS' SUPPLIES.
Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.
 Special attention given to shipping orders. Send for price list of supplies.
 128 N. Sixth St., Minneapolis, Minn.

H.G. BERNING
Wholesale Florist
 1322 Pine St., ST. LOUIS, MO.

Holton & Hunkel Co.
Wholesale Florists,
 457 Milwaukee St., MILWAUKEE, WIS.

Frank M. Ellis,
WHOLESALE FLORIST,
 1316 Pine Street, ST. LOUIS, MO.
 CONSIGNMENTS SOLICITED.

...GEO. M. KELLOGG...
 Largest Grower of... In the West. **Cut Flowers**
 Give us an order and we will please you.
 Our Greenhouses at PLEASANT HILL, MO.
 Our Store, 906 Grand Ave., KANSAS CITY, MO
 LONG DISTANCE PHONE AT EITHER PLACE.

C. A. KUEHN,
Wholesale Florist,
 1122 PINE STREET,
 ST. LOUIS, MO.
 A complete line of Wire Designs.

CINCINNATI, Nov. 6.

Roses, Beauty.....	5.00@25.00
" Bride.....	1.00@ 3.00
" Bridesmaid.....	1.00@ 3.00
" Meteor.....	2.00@ 4.00
" Kaiserin.....	3.00
Carnations.....	1.00@ 3.00
Chrysanthemums.....	4.00@20.00
Lily of the valley.....	3.00@ 4.00
Asparagus.....	50.00
Smilax.....	12.50@15.00
Adiantum.....	1.00
Common ferns.....	.15

Pittsburg Cut Flower Co. Ltd
WHOLESALE FLORISTS.
 Pittsburg, Pa.
 Please mention the American Florist when writing.

ST. LOUIS, Nov. 6.

Roses, Beauty, medium stem.....	10.00@25.00
" Beauty, short stem.....	3.00@ 8.00
" Bride, Bridemaid.....	2.00@ 5.00
" Golden Gate, Carnot.....	2.00@ 6.00
" Meteor.....	2.00@ 6.00
Carnations.....	1.00@ 2.50
Chrysanthemums.....	10.00@25.00
Tuberose.....	4.00@ 5.00
Lily of the valley.....	4.00
Smilax.....	12.50@15.00
Asparagus Sprenger.....	1.50
" Plumosus.....	.75@ 1.00

Large Cuts

Stock Good to Choice.

PLENTY Chrysanthemums, all colors, all sizes, all prices. Send us your orders, large or small, we'll please you. Best **Brides** and **Maids** in this market. Enough for all if orders are in early. Big cut of **Beauties**, choice buds, all lengths of stems. **Carnations**, all colors, choice stock for all orders. **Cattleyas, Valley, Smilax** and all Greens. Everything in season. Call on us for all your needs. "Right goods at right prices." Price list mailed to all applicants. A postal will do.

E. C. AMLING,

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The Largest, Best Equipped and Most Centrally Located Wholesale Cut Flower House in Chicago.

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WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

51 Wabash Avenue, CHICAGO.

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.

600,000 FEET OF GLASS. Headquarters for American Beauties.

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FRANK GARLAND,

Wholesale Grower of **Cut Flowers**

SPECIAL ATTENTION GIVEN TO HARDY CUT **FERNS**
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Telephone Central 3284

JOHN MUNO,

Wholesale Grower and Shipper of **Cut Flowers**

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TELEPHONE CENTRAL 3598. All telegraph and telephone orders given prompt attention.
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J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

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Benthey & Co.

F. F. BENTHEY, Manager.

Wholesale Commission Florists

Consignments solicited.

31-35 Randolph St., Chicago.

Wholesale Flower Markets

CHICAGO, NOV. 7.		
Roses, Beauty, 36-inch stems		3.00
" " 30 " "		2.50
" " 24 " "		2.00
" " 20 " "		1.50
" " 15 " "		1.00
" " 12 " "		.75
" " 6 to 8 " "	per 100	4.00@ 5.00
" Liberty.....		3.00@10.00
" LaFrance, Chatenay.....		3.00@10.00
" Bride, Bridesmaid.....		2.00@ 5.00
" Meteor, Golden Gate.....		2.00@ 5.00
" Perle.....		2.00@ 5.00
Chrysanthemums, per doz., \$.60@3.00.		
Violets.....		.50@ 1.00
Carnations.....		1.00@ 3.00
Lily of the valley.....		4.00@ 5.00
Asparagus, per string, .50		
Adiantum.....		.75@ 1.00
Common ferns, per 1000, 1.50		.15
Smilax, per dozen, 1.25@1.50		

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO.

Send for weekly price list and special quotations on 1000 lots.

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GEO. REINBERG,

Wholesale Grower of **Cut Flowers**

Choice American Beauties.

We will take care of your orders at reasonable prices. Prompt attention.

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AMERICAN FLORIST ADS ALWAYS DO BUSINESS

Week days and every day, Sundays and holidays,

ALL OVER THE COUNTRY AT HOME AND ABROAD.

VALLEY! VALLEY!! VALLEY!!!

Get Bruns' celebrated Valley for the show; you will have the best. Large quantities always on hand at Chicago market prices. Finest cold storage Pips, \$15.00 per 1000; \$1.50 per 100.

H. N. BRUNS, 1409 W. Madison St., Chicago.

VALLEY SAMUEL S. PENNOCK, ORCHIDS

Wholesale Florist,
1612-18 LUDLOW ST., PHILADELPHIA, PA.
Open from 7:30 a. m. to 8:00 p. m.

GEO. A. SUTHERLAND

34 HAWLEY STREET, BOSTON.

Best Boston Flowers

ALL SUPPLIES.

An entire floor Devoted to Stock and Manufacturing.
Write now for quotations on Chrysanthemums and all seasonable stock.
Telephone 1270 Main.

Orders for Cut Flowers of the New White Carnation.

Lillian Pond,

FILLED EVERY DAY. PRICE, \$5.00 per 100.

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9 CHAPMAN PLACE, Boston, Mass.
15 PROVINCE STREET,

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55 and 57 West 26th St.,
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Wholesale Commission Florist,
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Fair dealing and prompt returns guaranteed.
Correspondence solicited.
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Buy and Sell... **FLOWERS** on Close Margin.
Headquarters, 56 West 26th Street,
WRITE. Opposite Cut Flower Exchange,
TELEGRAPH OR TELEPHONE. NEW YORK CITY.

N. F. MCCARTHY & CO.

Best Quality
CUT FLOWERS
and Supplies,
Tel. 734 and 64 Main. 84 Hawley St., BOSTON.

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg, 6th Ave. and W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock
Every Morning.....
DESIRABLE WALL SPACE TO RENT
FOR ADVERTISING.
JOHN DONALDSON, Secretary.

Hardy Ferns...

Everything and anything in Florists'
Hardy Supplies at lowest prices. Esti-
mates on large orders on application.
Prompt delivery.
BOSTON FERN CO., 14 Brattle St., BOSTON, MASS.

Wholesale Flower Markets

BOSTON, Nov. 5.

Roses, Beauty, Edgely, extra.....	10.00@20.00
" " medium.....	5.00@ 8.00
" " culls.....	50@ 2.00
" " Bride, Bridesmaid, Meteor	2.00@ 3.00
" " extra.....	4.00@ 6.00
" " Kaiserin, Carnot.....	3.00@ 8.00
Chrysanthemums.....	2.00@18.00
Carnations.....	.75@ 1.00
Lily of the valley.....	2.00@ 4.00
Adiantum.....	.75@ 1.00
Asparagus.....	50.00
Smilax.....	12.50@18.00

PHILADELPHIA, Nov. 5.

Roses, Tea.....	2.00@ 4 00
" " extra.....	4.00@ 8.00
" " Beauty, extra.....	15.00@35.00
" " firsts.....	8 00@12.00
" " Queen of Edgely, extra.....	25.00@35.00
" " firsts.....	10.00@20.00
Carnations.....	1.50@ 2.50
Chrysanthemums, per doz.,	1 50@3.00
Violets.....	50@ 1.00
Lily of the valley.....	3 00@ 5.00
Asparagus.....	25.00@50.00
Smilax.....	12.50@15.00
Adiantum Farleyense.....	10.00

BUFFALO, Nov. 6.

Roses, Beauty.....	15.00@30.00
" " Bride, Bridesmaid, Meteor	3.00@ 6.00
Carnations.....	1.50@ 3.00
Chrysanthemums, per doz.,	2.00@3.00
Lily of the valley.....	3 00@ 4 00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50



HARDY Cut Dagger and Fancy Ferns.
A No. 1 quality \$1 per 1000.
Brilliant Bronze and Green Galax, \$1 per 1000, in 5,000 lots.
Laurel Festooning, 4, 5 and 6c per yard. Orders by mail, telephone or telegraph promptly attended to. Discount on large orders. L. D. telephone 2618 Main.

HENRY M. ROBINSON & CO., 32-36 Court Sq., Boston.
Please mention the American Florist when writing.

Galax AND Leucothoes.

Selected, Bright and Brilliant.
Wholesale Trade Solicited.....

J. L. BANNER & CO., Montezuma, N. C.

FANCY OR DAGGER FERNS

1st quality, 75c per 1000. Discount on large orders.
BRONZE OR GREEN GALAX \$1.00 PER 1000.
LAUREL FESTOONING, just the thing for summer decorations, only 4, 5 and 6c per yd. Discount on ferns and laurel in large quantities.



Millington, Mass.
Tel. office, New Salem.
Galax Bronze, \$1.25 per 1000; Green, \$1.00 per 1000. Southern Smilax, best quality, 50 lb. case \$6.00; 35 lb. case \$4.50; 25 lb. case \$3.75. Leucothoe Sprays, bronze and green, assorted sizes, \$1.00 per 100. Sphagnum Moss, \$1.50 per bale. Paimetto Leaves, \$1.50 and \$2.00 per 100.

L. J. KRESHOVER,
110-112 W. 27th Street, NEW YORK CITY.
Telephone call, 597 Madison Square.

CUT'MUMS

In any quantity from \$5 to \$25 per 100.
JOHN WOLF, SAVANNAH, GA.

Give Us a Trial. We Can Please You.

HEADQUARTERS IN WESTERN NEW YORK

Roses, Carnations and all kinds of Seasonable Flowers in stock.
WM. F. KASTING, Wholesale Com-
mission Florist,
481 Washington St., Buffalo, N. Y.
Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

Beauties and Valley Leo. Niessen,

IN QUANTITIES.

On and after Sept. 15th will be open from 7 a. m. till 8 p. m. until further notice.

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N. W. Cor. 13th and Filbert Sts., Phila.

FLOWERS SHIPPED BY
JOHN I. RAYNOR

ARE THE BEST PRODUCT OF THE BEST GROWERS FOR THE NEW YORK MARKET.

PACKING ALL RIGHT. 49 W. 28th Street, NEW YORK.
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Are supplying the most superb stock of FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.
SEND FOR QUOTATIONS.

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Wholesale Florist,

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39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square.



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Wholesale Commission Florists,
65 and 67 West 26th St., NEW YORK CITY.
Adjoining New York Cut Flower Co. salesroom.
Finest Salesroom in the Trade. Inspection Invited.
All business, selling or shipping, strictly commission.

VIOLETS. WILLIAM GHORMLEY VIOLETS.
Wholesale Commission
Daily Receiver and Shipper of Fresh Cut Flowers.

Orchids, Roses, Carnations, Valley, Chrysanthemums.

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Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.
51 West 28th St., NEW YORK.
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THE RECOGNIZED HEADQUARTERS IN NEW YORK CITY FOR

Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

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Telephone 551 Madison Square.

Frank Millang

Open from 6 a. m. to 5. p. m.

Cut Flower Exchange, 55-57 W. 26th St. NEW YORK.
Phone 299 Madison Square.

ESTABLISHED 1872.

JOHN J. PERKINS,
COMMISSION FLORIST,

Solicits Consignments or Shipping Orders. Satisfaction given in both.
Tel. 956 Madison Sq. 116 West 30th St., New York.

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WHOLESALE FLORISTS.
55 and 57 W. 26th St. New York.
Cut Flower Exchange.
OPEN 6:00 A. M.
An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.

Traendly & Schenck

NEW YORK CITY,
38 W. 28th Street, Cut Flower Exchange.
New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

NEW YORK, Nov. 5.

Roses, Beauty, Edgely, best.....	10.00@20.00
" " medium.....	8.00@12.00
" " inferior.....	1.00@ 5.00
" Bride, Bridesmaid.....	.50@ 6.00
" Liberty, Meteor.....	.50@ 6.00
Carnations.....	.50@ 1.50
Violets.....	.25@ 1.00
Lily of the valley.....	2.00@ 5.00
Lilies.....	8.00@10.00
Chrysanthemums, medium.....	2.00@ 4.00
" special.....	6.00@20.00
Cattleyas.....	25.0 @33.00
Dendrobium formosum.....	20.00@25.00
Smilax.....	8.00@10.00
Adiantum.....	.50
Adiantum Peter Crowe.....	1.25
Asparagus.....	35.00@50.00
" Sprengeri, doz. bun.	2.00@3.00

RELIABLE AT ALL SEASONS.

Best Flowers.

REASONABLE PRICES.

J. K. ALLEN

Telephone 167 Madison Square.
OPEN AT 6 A. M. DAILY.
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Receivers and Shippers of
FRESH FLOWERS,
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Telephone 157 Madison Square.

REPRESENTING EMINENT GROWERS.

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53 West 30th Street, NEW YORK.
COMMISSION DEALER in FLOWERS
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ALEX. J. GUTTMAN,

Wholesale Commission Florist,
A full supply daily of the choicest New York and New Jersey
FLOWERS.

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BEST FLOWERS SHIPPED AT LOWEST
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TELEPHONE 939 MAIN.

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55 WEST 28TH STREET,
Telephone 421
Madison Square.NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Secy and Treas.

VISITED CHICAGO: A. G. Samuel, manager Missouri Valley Seed Company, St. Joseph, Mo.; H. A. Johns, Sioux City, Ia.

Stocks of Alaska peas grown by farmers under ordinary field crop conditions are being offered at reduced prices.

ARMOUR & COMPANY are advertising in Chicago papers for celery packers in their produce department at the Union Stock Yards.

D. L. SLOAN, of Palo Alto, and Chas. G. Kimberlin, of Santa Clara, are the first of the California seed growers to visit Chicago this year.

St. Louis.

NOTES OF AFFAIRS AT THE MISSOURI BOTANICAL GARDEN.—GOOD STOCK IN THE HANDS OF GROWERS.—CEMETERY PEOPLE WANT RAIN.—TRADE NOTES.

The Missouri Botanical Garden has a very fine collection, some 250 varieties, of dahlias that are all in full bloom and all colors and shapes are to be seen. They have been under the direct care of Mr. Barnes and W. Nebeling. The garden will have a very complete collection of gladioli next year. From sixty-five to seventy species will be represented by some 1,500 to 2,000 varieties and hybrids. These will be under the care of Frank K. Balthis, who will also at the same time gather as complete a collection of fuchsias as possible. The eight new houses are all filled and as fine a range of low greenhouses cannot be found in this section of the country. The orchid houses, under the care of Geo. McClure, are very fine. He has also the fern, cycad and bromelia houses under his supervision. There are Cycas revoluta with from sixty to 100 leaves and stems several feet in length. The cacti are under the care of Fred. Luke, and the chrysanthemums under the care of Mr. Schmidt and Mr. Bonas. Mr. Gurney is in his usual good health and always glad to see his friends.

The market has picked up a little but is still quite slow. Some very fine Meteor and Liberty are coming in and as high as \$8 has been paid for very select flowers. Other varieties bring up to \$5. Roses have slacked up to a very noticeable extent this week, owing to the dark weather. Carnations are very plentiful. Violets are a glut and 20 cents per hundred is about the average price. Chrysanthemums are fine and coming quite lively. The best price is \$3.50 per dozen. The city parks are giving away chrysanthemum plants to those who should be good buyers. It will be brought before the next club meeting, at which there will also be a showing of cut chrysanthemums.

At the Koenig Floral Company's greenhouses everything is looking nice and a fine show of chrysanthemums is on. Among them are such varieties as Mrs. Perrin, Mrs. H. Robinson, J. H. Troy, Homestead and V. H. Hallock, principally in pots although a bench is planted out and these are looking very fine. They have sold a large number of potted plants this fall. They have also a very nice collection of geraniums, of which they use a large number in the spring. English ivies are to be seen in large numbers at this place.

The Meinhardt greenhouses show fine

potted chrysanthemums and Boston ferns. There is a very large demand for English ivy and myrtle in the adjacent cemetery. They are crowded with orders which they have been holding back on account of the dry weather. R. J. M.

Springfield, Mass.

STOCK PLentiful AND TRADE FAIRLY ACTIVE.—PLANTS ARE MOVING RATHER SLOWLY.—FLORIST GOES ONTO THE STREET.

The weather has been ideal the past two weeks. Cut flowers are plentiful, with a steady demand. Chrysanthemums were never better and find a ready sale. Carnations and roses have improved in quality, also violets. Potted plants do not move very fast, excepting Boston ferns, for which there is a steady demand. Now that the coal question is about settled greenhouse men are more contented and are getting plants ready for holiday trade. Stock looks well considering that there has been very little firing.

Springfield is getting a taste of the street fakir. One of the florists sends a man on the street every Saturday night, selling carnations for 15 cents per dozen, which I think is bad policy and does the trade no good; 35 cents is low enough if you are going to pay the grower anything. The worst part of this street selling is that the man gets between two of our best florists, who have to pay large rents. It is bad enough when the Greek gets on the street, but worse still when one of the oldest florists resorts to such measures.

F. Vetter, who has been the past four years with M. Aitken, has resigned his position, having gone to Mr. Carmichael, of Wellesley, to take charge of his ranges of houses. A. B.

Joliet, Ill.

The Joliet Improvement Association, of which F. S. Allen is president, has arranged for its first flower show on November 20—22, at which a list of cash prizes will be offered. The Chicago Carnation Company and J. D. Thompson

Carnation Co., of this city, as well as the private conservatory of Col. Ino. Lambert will each make large exhibits, while there will be a number of exhibits from out of town growers. From present indications the show will be quite a success.

New Orleans.

ALL SAINTS' DAY MAKES A NEW RECORD FOR BIG BUSINESS.—HOME GROWN FLOWERS LARGELY IN EVIDENCE.—NOTES.

The florists of New Orleans do not have a chrysanthemum show this year. They complain that the public does not patronize them enough to justify the expense. It is no wonder when we have every season, on November 1, such a fine exhibition of flowers as we have. This year has been the banner All Saints' day. For the last fifteen years never was such a quantity of flowers disposed of on that day. Our home grown chrysanthemums were offered in profusion. The prices were from \$1 to \$4 a dozen and it was a clean sweep. This year some very fine chrysanthemums were raised under glass and no doubt they will be more plentiful another year. We must still admit that for some time to come we shall have to depend on the north for some kinds of fancy flowers offered here and at a high price. Some people will always think that the more they pay the better it is, but no doubt the bulk of our supply for that day will never again come from the north; we can raise most of what we need.

Artificial flower designs are in very poor demand. Made up designs of any kind are also out of date. Bunches of loose flowers are what are wanted. Dahlias are going out of fashion.

M. M. L.

ANSONIA, CONN.—Messrs. H. Schlottman and G. E. Crane have leased the Elm street greenhouses.

MENLO PARK, CAL.—S. E. Slade is building a large range of glass for carnations, palms and ferns. George Munn is in charge.

OVER 2,000 ACRES IN CULTIVATION.

Braslan Seed Growers Co.

Growers for the Wholesale Trade Only.

Correspondence solicited.

SAN JOSE, CAL.



Field of Grand Rapids Lettuce ready to cut for seed crop 1902.

BEAUTIES!

First Premium

On 100 Beauties, \$150 special premium.

On 25 Beauties, regular class.

At Kansas City Show.

Also first on Kaiserin, Chatenay, Liberty, Ivory. Perle, special prize.

We are Headquarters for Choice Roses.

PETER REINBERG, 51 Wabash Ave. **Chicago.**

ESTABLISHED 1802

THORBURN'S SEEDS

Send for special low prices on

DUTCH HYACINTHS
for forcing or bedding, and
LILIUM LONGIFLORUM.

J.M. THORBURN & CO.
(Late of 15 John Street)
36 CORTLANDT STREET, NEW YORK

Pansies Worth Raising.

Strong plants, \$4.00 per 1000; \$2.50 per 500; \$1.00 per 100, f. o. b. express here. Cash with order.

CHR. SOLTAU,
199 GRANT AVENUE, JERSEY CITY, N. J.

Cocos Weddelliana Seed

FRESH AND FINEST QUALITY.

From our own collector. Delivery early 1903. \$7.00 per 1000. \$6.00 per 1000 in 4,000 lots. Special prices on 10,000, 25,000 or 50,000 Seeds.

A. DIMMOCK, 60 Vesey St., N. Y. City.

GLADIOLI

OUR MOTTO: QUALITY FIRST.

We have, however, a sufficient quantity to supply all demands. Send for Catalogue.

ARTHUR COWEE,

"Meadowvale Farm," Long Distance 'Phone 9x. **Berlin, N. Y.**
United States Grower and Representative of GROSS'S HYBRIDS.

All Seedsmen

SHOULD CATALOGUE DAHLIA

20th Century

Illustration Free

Write for description, proof of cut and prices.

W. P. PEACOCK,
DAHLIA SPECIALIST, ATCO, N. J.

Francis Brill

WHOLESALE SEED GROWER.

Long Island Cabbage Seed.
American Grown Cauliflower Seed.

And other Choice Specialties in Vegetable Seeds for the most critical trade.

Hempstead, L. I., N. Y.

Strictly New England GROWN SEEDS.

SPECIALTIES—Onion (Southport Globes), Turnip Seed and Sweet Corn, Beet, Parsnip, Carrot, Cabbage. We can answer all questions without finching as to quality and where grown.

The E. B. CLARK CO., Milford, Conn.

"Fumigation Methods"

BY PROF. JOHNSON.

Every Grower needs this book..... Price \$1.00

AMERICAN FLORIST COMPANY,
324 Dearborn Street,CHICAGO.

BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.
 CHAS. A. LOENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.
 Twenty-eighth annual convention, Detroit, Mich., June, 1903.

J. K. HENLEY & SON, Greenfield, Ind., report this the busiest fall season and the best year on record.

THE expanding markets for American fruits are an assurance of continued prosperity in the nursery trade.

THE U. S. Department of Agriculture is aiding in experimental shipments of various fruits to European markets.

CHARLES E. GREENING will hereafter conduct the nursery business at Monroe, Mich., his brother, George E. having retired after twenty-five years with the firm.

THERE is a good sale on grape vines, including the fancy table varieties for home consumption. This is an item in which florists could work up a good trade with a little effort.

PROF. W. B. ALWOOD says that the San Jose scale matter is of much more importance in Virginia than in states further north, because of climatic conditions which favor the spread of the pest.

Minneapolis.

CHRYSANTHEMUM IMPAIRS VALUE OF ROSES AND CARNATIONS.—STOCK PLENTIFUL.—NOTES OF GROWERS AND RETAILERS.

Trade conditions show no decided change except that the chrysanthemum has carried down the market on tea roses and carnations. The chrysanthemums are of superior quality this season and plentiful, bringing from \$5 to \$15 per hundred. White carnations, which have heretofore been in limited supply, are sufficient to meet all demands and red is now scarce.

The Wm. Donaldson Company made their annual greenhouse fete a great success. There was a large attendance and the greenhouses made a remarkably fine appearance. There were refreshments and music. Under the supervision of James Souden no detail of the affair was lacking.

Northrup, King & Company open their new flower store this month. It will rank as one of the most attractive retail cut flower stores of the northwest.

Thomas Hall, of the Lakewood Cemetery Greenhouses, and Thos. Lynes, of the East Side Floral Store, were out for a duck hunt a few days ago. C. F. R.

Providence, R. I.

CHRYSANTHEMUM CROP MOVING TO GREAT SATISFACTION TO GROWERS.—RETAILERS FIND IT DIFFICULT TO REALIZE USUAL PRICES.—VARIOUS NOTES.

On the whole business was not satisfactory last week. Chrysanthemums are moving from the growers' hands in good quantities, but the retailers find it hard to obtain the customary profit; in fact, it sometimes becomes necessary to take the best offer. From a growers' standpoint this is going to be an excellent year locally, for it is evident that good fortune has so arranged it that there will be no serious glut. Everybody seems to have planted at just the right time to insure a ready sale in a normal market. At this moment it looks as if chrysanthemums will come in regu-

larly and not in any great overplus for the entire season.

Carnations and roses are depending upon design work to move them regularly. Chrysanthemums range from \$5 for Ivory to \$7 and \$8 for Bonaffon and \$15 for Eaton and Appleton.

L. B. Williams has a crop of Ivory ready to cut, which would flood the market at any other time, but this year he has struck it right, for white stock is in demand at present.

J. G. Jensen never had better flowers, with a mixed crop, probably lasting till fall Thanksgiving. His pink varieties are especially good. Incidentally it might be mentioned that we have not been favored by any respectable pink chrysanthemums thus far.

Ernst Carl has a fine display not quite ready, but promises to be all right by November 10. The foliage is good, although the plants are very close together. M. M.

THE GLENWOOD NURSERIES

EVERGREENS.

The largest and most complete assortment of SPECIMENS, sheared and of natural form. All root pruned and carefully grown.

EVERGREEN TREES, EVERGREEN SHRUBS and VINES for window boxes and Winter decorations.

DECIDUOUS TREES.

20,000 Oriental Plane Trees, 6 to 14 feet.
 25,000 Oaks, in variety, 6 to 14 feet.

100,000 Maples, in variety, 8 to 18 feet.
 Beech, Birch, Ash, Elms, Ginkgo, Poplars and other leading varieties.

HEDGE PLANTS.

200,000 California Privet, 1 to 4 feet. The finest grown.

Osage Orange, Berberis Thunbergii, Althaeas, etc.

SPECIAL QUOTATIONS TO LARGE BUYERS. NEW TRADE LIST NOW READY. DESCRIPTIVE ILLUSTRATED CATALOGUE ON APPLICATION.

FLOWERING SHRUBS.

15,000 Hydrangea Paniculata Grandiflora, 1 to 4 feet.

5,000 Deutzias (Gracilis and Lemolnei), for forcing.

A complete assortment of Shrubs of all sizes, including quantities of large shrubs for immediate effect plantings, as well as smaller grades.

CLIMBING VINES

5,000 Ampelopsis Veitchii, 1 and 2 years.

20,000 Hall's Japan Honeysuckle.

20,000 Clematis Paniculata.

English and Irish Ivies, Wistarias and other vines.

Crimson Rambler, Wichuraiana and other climbing and running roses.

THE WM. H. MOON CO., Morrisville, Pa.

60 MILES FROM NEW YORK.

30 MILES FROM PHILADELPHIA.

25,000 Rudbeckia The Glow

Clumps, \$3.00 per 100; \$25.00 per 1000.

25,000 Boltonia Asteroides

Clumps, \$4.00 per 100, \$35.00 per 1000.

and thousands of other varieties of

Hardy Herbaceous Plants.

150,000 ASPARAGUS,

Conover's Colossal, etc., and a full line of Trees, Shrubs, etc. Send for catalogue.

CENTRAL MICHIGAN NURSERY, Kalamazoo, Mich.

3,000

CALIFORNIA Privet

12 to 18 inches, branched, strong, at \$9.00 per 1000. Cash.

HENRY EICHHOLZ, Waynesboro, Pa.

ILEX OPACA HOLLY.

Excellent, well graded and well furnished stock in sizes from 6 inches to 3 feet, at from \$6.00 to \$25.00 per 100. Send for our Trade list.

Pinehurst Nurseries, Pinehurst, N.C.

BEGONIA GLOIRE DE LORRAINE,

Begonia Light Pink Lorraine,

For July and Later Delivery, \$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near Cheatnut Hill, Pa.

Fine Grafted ORANGES Bearing Sizes.

12 inch, bushy, from 4-inch pots..... \$20 00

15-18 inch, bushy, from 4-inch pots..... 30 00

Kin Kans 10-12 in., bushy, from 4-in. pots 20.00

Lemons 15-18 in., bushy, from 4-in. pots 30.00

Roses 12-15 in., bushy, from 4-in. pots.. 20.00

18-24 in., bushy, from 4-in. pots 30.00

Climbing Clothilde Soupert, strong field-grown..... 10.00

Crimson Rambler, strg. field-grown 7.00

Clematis Apiifolia A fine variety, some-what similar to C. Paniculata, but blooms earlier and lasts longer; strong plants from 3-inch pots.... 8.00

(Not less than 40 of a class at 100 rate.)

Citrus Trifoliata (Best defensive hedge plant.) Per 1000

Strong, 2 year old, field-grown..... \$15.00

Strong, 3 year old, field-grown..... 20.00

Amoor River Privet (Better than California Privet.)

18-24 inch, branched..... 15.00

24-36 inch, branched..... 20.00

Not less than 400 of a class at these rates.

Rubbers, Kentias, Phoenix, Latanias, Pandanus, Ornamental Trees and Shrubs in large quantities.

WRITE FOR CATALOGUE.....

P. J. BERCKMANS CO., (Inc.)

FRUITLAND NURSERIES,

Established 1856. AUGUSTA, GA.

PAEONIAS FOR FALL... 10 distinct, best kinds, \$10.00 per 100.

Ampelopsis Veitchi, 2 year, strong.... \$1.00 per doz.

Clematis Paniculata, 2 year, strong, \$1.00 per doz.; \$7.00 per 100.

Clematis, large flowering, \$2.50 per doz.; \$16 per 100.

F. A. BALLER, Bloomington, Ill.



JENNICOTT BROS. CO.

40-42-44 Randolph St., Chicago.

Chicago, Ill., Nov. 8, 1902.—Following are the current prices: **Roses, Maids, Brides, Meteors, Perles**, first quality, 3c to 5c; second quality, 1½c to 2½c. **Liberty**, 4c to 8c. **Chrysanthemums**, 60c to \$1.00; fancy, \$1.50 to \$2.50 per doz. **Carnations**, our selection, \$1.25; Carnations, good to choice, \$1.50 to \$2.00; fancy, \$2.50. **Valley**, 4c. **Violets**, 40c to \$1.00. **American Beauties** run according to stem from 6c to 25c each.

EVERYTHING in SEASON at Chicago price day of shipment.

A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

KENTIA Belmoreana and Forsteriana, extra clean and well grown plants, 2¼, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

REX BEGONIA, 2 and 3-inch, \$4 and \$6 per 100. **BOSTON FERN**, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.

ASPARAGUS Plumosus, 2-inch, \$5; 3-inch, \$8. Sprengeri, 2-inch, \$3; 3-inch, \$5, per 100.

DRACAENA INDIVISA, 4, 5-in., \$10, \$25 per 100. **ENGLISH IVY**, 2 and 3-inch, \$3 and \$6 per 100.

CAMPBELL VIOLETS, 3-inch, \$4.00 per 100. **CERANIUMS**, rooted cuttings, standard varieties; your choice \$1.25, my choice \$1.50 per 100.

VINCA VAR., 3-inch, \$4.00 per 100. **CINERARIA**, 2-inch, \$2.00 per 100.

Chinese Primrose, 2-in., \$3; 3-inch, \$5 per 100. **Cash or C. O. D.**

CEO. M. EMMANS, NEWTON, N. J.

Please mention the American Florist when writing.

PANSIES

Roemer's Superb Prize Pansies.

STRONG, FINE STOCKY PLANTS, Mixed colors, by mail, 75 cents per 100; \$3.00 per 1000; per 10,000, \$25.00.

Large transplanted plants, in bud and bloom, \$1.25 per 100 \$10.00 per 1000.

CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

Please mention the American Florist when writing.

ROBT. CRAIG & SON, Roses, Palms

and Novelties in Decorative Plants,
Market and 49th Sts., Philadelphia, Pa.

Please mention the American Florist when writing.

Pansy Plants.

MME. PERRET, the finest strain on the market, large plants that will bloom soon at 50c per 100; \$3.50 per 1000; 3,000 for \$10.00.

J. C. SCHMIDT, BRISTOL, PA.

Please mention the American Florist when writing.

AM. FLORIST CO.—My advertisement in your paper brought me so many replies that I think I will sell all the plants I care to dispose of; another insertion would swamp me with orders. **R. SCHIFFMANN.**

TO BE
IN TIME
FOR THE

Great Autumn Special Number

To be issued
NOV. 15,
Advertisements
must reach
us by noon
on Thursday,
November 13.

YOU CAN'T AFFORD
TO BE LEFT OUT OF
THIS BIG BUSINESS
BRINGING ISSUE. ❀ ❀

AMERICAN FLORIST CO.
324 Dearborn St., Chicago.

Calif'nia

ASPARAGUS PLUMOSUS, Extra fine 3¼-inch stock, \$4.00 per 100; \$35.00 per 1000. 4¼-inch, \$8.00 per 100.

EXPRESS PREPAID.
Pansy Seed, 1902 Giant of California. \$4.00 per ounce, ¼ ounce at same rate.

FIELD-GROWN CARNATIONS,
QUEEN LOUISE.....\$7.10 per 100
MERMAID..... 6.00 per 100

LOOMIS FLORAL CO., Loomis, Cal.

ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong, 2¼-inch, \$3.50 per 100.
SPRENGERI, strong, 2¼-inch, \$2.50 per 100.

BOSTON FERNS.

From bench fit for 3, 4, 5, 6, 7 and 8-in., 2¼c, 5c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA

Extra fine, 4 to 7-inch pots, only 12c per leaf.

25 FINE RUBBER PLANTS, 3 feet, \$1 each, or the lot for \$20.00. **CASH PLEASE.**

A. J. BALDWIN, NEWARK, OHIO.

100,000 PANSIES

Highest Grade, Finest Stock. The Jennings Strain.

Mr. John Lewis Childs, of Floral Park, N. Y., says of the Jennings Strain: "The largest and finest colored flowers I have ever seen." By mail 75c per 100; by express, \$4.00 per 1000; 3,000 \$11.00; 5,000 \$18.00. Separate colors same price. Large plants ready to bloom Oct. 1st, \$1.00 per 100; \$8.00 per 1000. **SEED**, \$1.00 per pkt.; \$5.00 per oz.

CASH WITH ORDER.

E. B. JENNINGS, Lock Box 264, Southport, Conn.
Grower of the Finest Pansies.

All The Best CARNATIONS

The Leading Novelties of 1903.
The Best Varieties of 1902.

All the Standard Varieties.
Order your Rooted Cuttings **NOW.**

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

At Chicago.

The Florists' League got down to business on Tuesday evening, November 4. The Retailers defeated Vaughan's Seed Store three games and the McKellar & Winterson team beat the Wholesalers three. The two latter rolled with six men. Quite a number of ladies were present. Following is the score:

RETAILERS.	1st	2d	3d	T ¹
P. J. Hauswirth.....	178	164	156	498
Huebner.....	133	116	131	383
Nagle.....	99	101	137	337
Kreitling.....	169	103	97	369
Asmus.....	138	139	188	465

VAUGHAN'S S. S.	1st	2d	3d	T ¹
C. Hunt.....	139	101	107	350
Bollnow.....	135	107	180	422
J. Roy.....	112	133	118	363
Goss.....	127	109	113	349
Henderson.....	98	141	118	357

WHOLESALEERS.	1st	2d	3d	T ¹
Geo. R. Scott.....	161	147	143	451
G. H. Pieser.....	146	69	117	283
A. Newell.....	111	131	140	382
C. Fisk.....	154	90	113	357
G. H. Pieser, Jr.....	130	155	110	395
W. Randall.....	103	141	107	351

MCKELLAR & WINTERSON.	1st	2d	3d	T ¹
Balluff.....	176	150	143	469
Pruner.....	145	114	153	412
McCormick.....	133	151	122	406
Sterrett.....	110	137	113	360
McKellar.....	127	103	120	350
Winterson.....	183	186	114	513

LADIES' GAME.	1st	2d	3d	T ¹
Elsa Hauswirth.....	71	63	52	186
Mrs. Hauswirth.....	33	66	69	228
Mrs. Balluff.....	55	86	62	203
Mrs. Winterson.....	81	75	89	245
Mrs. McKellar.....	67	54	65	186
Anna Kreitling.....	89	70	67	226
Mrs. W. Kreitling.....	83	85	112	280
Mrs. Asmus.....	63	41	71	175
Kreitling, Jr.....	—	68	80	148

Cincinnati.

GROWERS SHOW GOOD PROGRESS DESPITE OBSTACLES.—NOTES OF A VISIT TO HYDE PARK.—MARKET SHOWS LITTLE CHANGE.—CHRYSANTHEMUMS SELLING BELOW PROFIT LINE.—VARIOUS LOCAL NOTES.

The writer spent a pleasant afternoon last Monday at George & Allan's establishment at Hyde Park. Notwithstanding the fact that the grub worms played havoc with their roses, the place is in first-class shape. Mr. Allan at present is visiting his parents near Boston and incidentally the growers about that city. He gives some glowing descriptions of some of the places he has seen, in the letters he writes to the boys. He has been absent for a month and of course all the responsibility of their large and increasing business rested on the shoulders of "Benny" George, who was equal to the task. Because of the grub worms they had to throw out one house of roses, which has been filled with Harrisii and longiflorum lilies. The former stand about twelve inches high and are free from disease. It seems strange to see 4,000 or 5,000 plants and not a dozen affected, as in former years, when about twenty-five or thirty percent had spotted

leaves. They are very strong on Paper White narcissi, having about 80,000 bulbs to force, some of which they now have in flower. One house of Beauties and Perles is grand. Two houses of carnations look healthy and promising. One house of smilax is now being cut out and Mr. George says has yielded exceptionally good returns. Another house coming along will be ready to cut in about two weeks. A fine lot of Adiantum cucucatum fills one entire house. Chrysanthemums, grown three to four blooms to a plant, are exceptionally early this year, their Bonaffon being all cut out on November 3. The whole Hyde Park establishment is now used for growing cut flowers, they having transferred all the pot plants to the Walnut Hills greenhouses.

The glut of roses has diminished to some extent and business is about the same as at last report. There was a big lot of flowers used for All Saints day and Sunday found the commission houses pretty well cleaned out. Chrysanthemums are coming in more abundantly and I believe for the next two weeks there will be more than enough to meet all demands. The writer saw a vase of chrysanthemums this week in one of the store windows, which looked like exhibition blooms, and I took the liberty of asking the proprietor what he had paid for them. He showed me the bill and \$1.50 per dozen was the price. It is impossible for any grower to produce this article at that price less fifteen per cent commission and make anything unless he gets his labor for nothing. Carnations are in good supply and enough for all orders. Beauties are in fair demand and not enough to go around. Lily of the valley is fine and sells fairly well. Paper Whites have made their appearance but do not sell well. Adiantum and smilax are in good supply, with fair demand.

Nathan Smith & Son, of Adrian, had a very fine chrysanthemum before the committee last Saturday; the flower was fine in form and a beautiful shade of pink but the stem was a little weak. "Tom" Hardesty was very enthusiastic over it. The name is Ethelyn.

Saturday, November 8, we will have an exhibition of chrysanthemums at the club rooms in the Jabez Elliott Flower Market and to read some of the descriptions given in the daily press, there will be some wonderful varieties on exhibition.

Hardesty & Company had a unique dinner table decoration last Saturday at the St. Nicholas for a party of race horse owners. The table was set in the form of a race track, with paddock, stables and all the rest made of flowers.

Paul Berkowitz was a caller the past week.

PEORIA, ILL.—J. C. Murray has stock in fine shape at present. Joseph B. Feldman is the grower in charge.

FINE STOCK OF FERNS and MOSSES

Hard, Well Grown and Full Plants.
10 BEST VARIETIES FOR JARDINIERS.
2 1/2-inch pots \$3.00
3 1/2-inch pots 6.00
4 1/2-inch pots 8.00
5-inch pots 20.00
ALSOPHILA AUSTRALIS (Tree Fern), 2 1/2-inch 4.00
" " " " 3 1/2-inch 8.00
LOMARIA GIBBA " " 3 1/2-inch 5.00
BOSTON FERNS, fine specimens in 8-inch pans, \$9.00 per doz.
JOHN H. LEY, GOODHOPE, Washington, D. C.

AM. FLORIST CO.—It is remarkable the amount of orders my 2-inch ad. brought me from the Special Number of your paper. Orders came pouring in from all parts of the United States. The American Florist is O. K.

W. W. COLES, Kokomo, Ind.

SEND
"COPY"
NOW
FOR THE
GREAT
SPECIAL
AUTUMN
NUMBER
TO BE
ISSUED
NEXT
WEEK.

You can't
Afford to
Miss it.

ED. AM. FLORIST:—I enclose \$1.00 for renewal of my subscription to your paper, which is hard to beat and full of information, a paper I can't do without.
Pittsburg. GEO. J. LEARZOF.

Enchantress

AT NEW YORK,

Three Entries---Three First Prizes.

J. D. Thompson Carnation Co.

JOLIET, ILLINOIS.

Eastern Agent, PETER FISHER, ELLIS, MASS.

W. A. HAMMOND,

Richmond, Va.

Wholesale Florist.

Roses, Carnations,
Chrysanthemums, Etc.


WHOLESALE

Cut Flowers

Florists' Supplies, Seeds, Etc.
Galax and Leucothoe, Wild Smilax.
Special attention given to shipping orders.
Long distance 'Phones, Main 584 and 748.

J. M. McCullough's Sons
316-318 Walnut St., Cincinnati, O.

WM. MURPHY
Wholesale Carnation Grower.

Cut flowers and rooted cuttings of Murphy's
White; January delivery at \$6 per 100; \$50
per 1000.  Wire or write.

Phone Main 4411. 130 E. 3rd St., Cincinnati, O.

Surplus Stock

Lilium Harrisii, 7 to 9-inch,
per 100, \$8.00; per 1000, \$75.00.
Case lots 200 bulbs, at 1000 rates.

Narcissus, Von Sion, dbl.
Nose, \$1.00 per 100; \$9.00 per 1000.

James Vick's Sons,
ROCHESTER, N. Y.

NAMED Hyacinths

SURPLUS STOCK.

La Grandesse, Gigantea, Gertrude, King of
the Blues, \$3.50 per 100; \$30.00 per 1000.

D. LANDRETH & SONS
1217 Market St., Philadelphia, Pa.

FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)
Write, Wire or Phone the Introducers,
Caldwell The Woodsman Co., Evergreen, Ala.
or their agents: L. J. Kreshover, New York; J.
B. Deamid, Chicago; H. Bayersdorfer & Co.,
Philadelphia; W. F. Kasting, Buffalo; J. M.
McCullough's Sons, Cincinnati, Ohio; Vail Seed
Co., Indianapolis.

Lilium Longiflorum GIGANTEUM.

We have still a small surplus of 7 to 9-in. size;
Splendid for late forcing. Write for prices.

Calla Bulbs

A late shipment having just arrived from
California in prime condition, to move them
quick we offer

	Per 100	Per 1000
1 1/4-1 1/2 in. diam.....	\$4.50	\$35.00
1 1/2-2 in. diam.....	7.00	65.00

HYACINTHS

White Roman, 12-15 ctm., \$2.50 per 100;
\$23.50 per 1000.

Blue Roman, \$2.25 per 100; \$20.00 per 1000.
Italian Roman, \$2.25 per 100; \$20 per 1000.

NARCISSUS

Paper White Grandiflora, 12-13 ctm., 75c per
100; \$6.75 per 1000.

Double Von Sion, fancy stock, \$1.35 per 100;
\$12.00 per 1000.

Single Von Sion, extra forcer, \$1.00 per 100;
\$9.00 per 1000.

Golden Spur, \$2.50 per 100; \$22.00 per 1000.
Golden Spur, mammoth size, \$2.75 per 100;
\$25.00 per 1000.

Send for our Complete Surplus List of Bulbs.

VAUGHAN'S SEED STORE,
CHICAGO. NEW YORK.
84 Randolph St 14 Barclay St.

Columbus, O.

NO FROSTS TO KILL OUTDOOR STOCK.—LOADS OF CHEAP CHRYSANTHEMUMS HURT FLORISTS' TRADE.—DOINGS OF GROWERS AND OTHERS.

The weather continues warm, with geraniums and cannas in full bloom November 1 where buildings protected them from north winds. There are even a few coleus beds doing fairly well at this writing. Chrysanthemums are in full bloom in the open gardens and wagon loads are carted to the public market places, where they are sold at any price. While a great proportion of this stock is of the small type, it cannot help but have a damaging effect on the sale of the better stock produced by our growers. Notwithstanding this glut our local trade last week was very satisfactory and there are few complaints.

George Miller, of Newark, O., has purchased the Affleck greenhouses and will move them to Newark, where they will be added to his already large establishment. Mr. Miller made some extensive improvements during the past summer, in the way of a fine office with entrance into a modern palm house. He reports his fall seed trade the largest in the history of his place.

Miss Charles has opened a new store in the Park Hotel block. This is the first cut flower store of consequence opened north of the viaduct and it is the unanimous wish of all the members of the craft that this young lady will prosper.

The Underwood Bros., whose stock was not quite up to their usual standard last fall on account of delay in building, have made up for last time, as everything is now in prime condition.

There are but few violets as yet in this market. C. A. Roth and the Livingston Seed Company are handling most of these.

Gravett & Son, of Lancaster, O., report carnations as moving slowly although the stock is of the very best. CARL.

COLORADO SPRINGS, COLO.—Wm. Clark is building eight large greenhouses on his ranch at Roswell, to be used for carnations, roses and violets. Mr. Clark expects in the near future to move his entire plant to Roswell, his city property being most too valuable for greenhouse purposes. Roswell is just outside of the city limits of Colorado Springs.

BUCKLEY'S November Special.

Smilax Do you need Smilax? If so, forward your order at once and we will furnish you extra fine 2 1/4-inch at 50c per 100; \$5 per 1000.

Geraniums Extra strong, rooted cuttings, well-rooted and correctly labeled. Varieties: Jean Viaud, \$2.00 per 100; S. A. Nutt, Alphonse Ricard, Beante Poitevine, E. G. Hill, Mme. Jaulin, Mme. Bruant Morton, Dutchess of Orleans, \$1.50 per 100; \$12.50 per 1000, in variety.

Verbenas Our 20th Century Collection, 25 new mammoth varieties, all labeled, strong plants from 2 1/4-inch, \$1.50 per 100; \$12.50 per 1000.

Asp. Sprengeri Strong, 2 1/4-inch, \$2.00 per 100; 2-inch, \$1.25 per 100; \$10.00 per 1000.

Petunias Ten novelties from Dreer's latest sets, strong R. C. \$1.25 per 100.

Feverfew LITTLE GEM, rooted cuttings, 75 cents per 100.

Marguerites CHRYSANTHEMUM FRUTESCENS, both white and yellow, \$1.00 per 100.

Salvia Two best: St. Louis and Bonfire, 75 cents per 100.

The W. T. Buckley Plant Co., Springfield, Ill. Please mention the American Florist when writing.

Azaleas at Import Prices

We will supply, as long as stock remains unpotted, Azaleas of the best quality we have ever sent out, stock that we know will give entire satisfaction:

10 to 12-inch crowns, bushy plants.....	\$ 4.50	per dozen: \$ 35.00	per 100
12 to 14-inch crowns, bushy plants.....	6.00	per dozen: 45.00	per 100
14 to 16-inch crowns, bushy plants.....	7.50	per dozen: 55.00	per 100
16 to 18-inch crowns, bushy plants.....	12.00	per dozen: 90.00	per 100
18 to 20-inch crowns, bushy plants.....	25.00	per dozen: 200.00	per 100
20 to 24-inch crowns, bushy plants.....	36.00	per dozen: 300.00	per 100

DEUTZIAS for FORCING

We are again this season offering our usual fine stock of home-grown Deutzias, these plants are grown on light sandy soil and have a mass of working fibrous roots which makes them equal to pot-grown stock and at a much lower cost.

GRACILIS—Suitable for 6 and 7-inch pots, 75c per dozen; \$6.00 per 100.

GRACILIS ROSEA—Suitable for 6 and 7-inch pots, \$1.00 per dozen; \$8.00 per 100.

LEMOINEI—Suitable for 6 and 7-inch pots, \$1.00 per dozen; \$8.00 per 100.

HENRY A. DREER, Philadelphia, Pa.

500,000 VERBENAS THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 60c per 100; \$5 per 1000; \$45 per 10,000. NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR. We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, BLOOMSBURG, PA.

B. & A. SPECIALTIES

AZALEAS, all sizes and varieties.
KENTIAS, 2-inch pots to 10 ft. specimens.

DUTCH, FRENCH, CHINESE and JAPANESE BULBS in all varieties and at reasonable prices.

ASK FOR FALL CATALOGUE.

BOBBINK & ATKINS, Rutherford, N. J.

50,000 DAHLIA Roots Undivided. For want of storage I will sell at \$4 per 100. Florence Vaughan Canna, \$10 per 1000. Fine Tobacco Dust, \$1.00 per 100; \$15.00 per ton.
1,000,000 CABBAGE PLANTS ready to plant out or prick in cold frame, only \$2.00 for Nov. or Dec. **MARK T. THOMPSON, Rio Vista, Va.**

Stock 'Mums.

THREE BEST EARLIES:

MONROVIA, Yellow.

Glory of Pacific Pink.

White **POLLY ROSE**

Also all other commercial varieties at \$5.00 per 100. Cash please.

Carl Hagenburger, W. Mentor, Ohio.

CARNATIONS Rooted Cuttings

Crocker, Dorothy, Nelson and Cressbrook, in pink. Queen Louise, Alba, Lorna and Her Majesty, in white. Apollo, Estelle and Adonis, in scarlet. Morning Glory and Higinbotham, in light pink. Gaiety and Prosperity, in fancy. Roosevelt, in dark crimson.

I will be very glad to estimate on your orders large or small.

Bone Meal, just the high grade you need for Carnations at \$3.50 per 200 lb. bag or \$32.50 per ton.

ALBERT M. HERR, LANCASTER, PA.

CARNATION PLANTS.

JOOST, strong, field-grown, No. 1 \$3.00; No. 2 \$2.00. HILL, No. 2 \$2.00.

VINCA VAR., strong, field-grown, \$3.00 per 100. BEGONIA Rex, 4-in., 8c; 3-in., 5c. Cash or C.O.D.

Whittet & Co., Lowell, Mass., write: "Thanks for first-class plants shipped promptly."
H. DANN & SON, Westfield, N. Y.

We have the largest stock of

ARAUCARIA EXCELSA

in the country, May importation, raised from top cuttings only.

5-inch pots, 3 tiers, 10 inches and above..... \$.50
5 1/2-inch pots, 12 to 14 inches..... 60 to 1.75
6-inch pots, 15 to 18 inches..... 75 to 2.00
Specimen..... 1.25

KENTIA FORSTERIANA and BELMOREANA, 5 1/2 to 6-in. pots, 25 to 30 inches high. .75

FICUS ELASTICA, 5 1/2 to 6-in., 18 to 24 inches high, from \$4.00 to \$5.00 per doz.

BOSTON FERNS, 6-inch pots..... .40
Cash with order please. To save express mention if pots to be taken off.

GODFREY ASCHMANN,

WHOLESALE GROWER and IMPORTER

OF POT PLANTS,

1012 Ontario Street, PHILADELPHIA, PA.

Please mention the American Florist when writing.

JOSEPH HEACOCK,

WYNCOTE, PA.

GROWER **ARECA LUTESCENS,**
...OF... **KENTIA BELMOREANA,**

COCOS WEDDELIANA.

FORCING ROSES.

3,000 strong 3-in. Brides, Meteors and Golden Gates, \$4 per 100; \$30 per 1000. 2-inch Brides and Maids, \$2 per 100; \$18 per 1000. Fine healthy plants. 4-in. Asparagus Plumosus, \$15 per 100.

W. H. GULLETT & SONS, LINCOLN, ILL.

Wanted

Will someone please tell me where plants or rooted cuttings of *Campanula isophylla* and variety *Alba* can be obtained. **E. O. ORPET, So. Lancaster, Mass.**

Please mention the American Florist when writing.

PAYS BEST.

The adv. in the American Florist brought more than twice the orders of any other paper.
PAGE SEED CO., Greene, N. Y.

GOOD PEOPLE.

The American Florist certainly does bring orders from good, reliable firms.
F. R. WILLIAMS CO., Cleveland, O.

MR. ADVERTISER:

You know the excellence of the Special Issues which are a feature of this journal. You know that the **American Florist** covers the trade, that its readers await these Special Numbers with keen anticipation, that they are highly prized, kept for months, read and re-read. That's what makes their particular advertising value.

The Autumn Number, issued at the time of the great exhibitions, at Chicago and throughout the country, will appear November 15. It will be in every way equal to the best of our splendid Special Issues. That's enough said. Advertising copy to be in time must reach us by noon on Thursday, November 13. It's to everyone's advantage if you are early.

Very truly yours,
AMERICAN FLORIST CO.

324 Dearborn St., Chicago, Ill.

Please Mail Your Adv. Now.



**JUST ARRIVED, SPECIAL IMPORTATION
AZALEAS.**

All the best sorts, such as Bernard Andrea Alba, Deutsche Perle, Vervaeckena, Simon Mardner, Mme. Van der Cruyssen, Virginiana, Empress of India, and many others.

PRICE IN ASSORTED LOTS, FOR EARLY ORDERS:

- 10 to 12-inch crowns, bushy plants.....\$40.00 per 100
- 12 to 14-inch crowns, bushy plants..... 50.00 per 100
- 14 to 16-inch crowns, bushy plants..... 60.00 per 100
- 16 to 18-inch crowns, bushy plants..... \$12.00 per doz.
- 18 to 20-inch crowns, bushy plants..... 25.00 per doz.
- 20 to 22-inch crowns, bushy plants..... 30.00 per doz.
- 22 to 24-inch crowns, bushy plants..... 36.00 per doz.

We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

BOSTON FERNS.

Extra choice lot of compact, bushy, pot-grown plants.

- 2½-inch pots.....\$5.00 per 100
- 3-inch pots.....10.00 per 100
- 4-inch pots.....25.00 per 100
- 5-inch pans.....\$40.00 per 100
- 6-inch pans..... 9.00 per doz.
- 7-inch pans.....12.00 per doz.

VAUGHAN'S SEED STORE, 14 Barclay Street, New York.
84-86 Randolph St., Chicago.
GREENHOUSES, WESTERN SPRINGS, ILL.

Orchids!

Arrived in fine condition: **CATTLEYA TRIANÆ.** The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

IMPERIAL PANSY Finest Giant Flower in all shades and colors, separate or mixed, \$4.00 per 1000.

CINERARIA nana hyb. gigantea, Benary, Cannell and Sutton's strains, all giant flowered and dwarf or semi-high, the finest in market, 2½-in., \$2 per 100. Cash please.
Shellroad Greenhouses, Grange, Baltimore, Md.
Please mention the American Florist when writing.

CYCLAMEN

PERSICUM SPLENDENS GIGANTEUM.

Finest strain in the world, ready for immediate shipment, a splendid stock of plants, well budded, from 3-inch pots, \$6.00 per 100; \$50.00 per 1000; from 3½-inch pots, in bud and bloom, \$10.00 per 100; \$90.00 per 1000.

PAUL MADER, East Stroudsburg, Pa.

ASPARAGUS PLUMOSUS NANUS.

Strong and Bushy, 3-in pots, per 100, \$5.
TOBACCO STEMS, Fresh and Strong
Bale of 300 pounds, \$1.50.

W. C. BECKERT, Allegheny, Pa.

OUR DIRECTORY FOR 1902 WILL BE MAILED TO YOU PROMPTLY UPON APPLICATION. PRICE TWO DOLLARS.

Louisville, Ky.

A VARIETY OF JOTTINGS OF TRADE CONDITIONS.—PERSONAL MOVEMENTS AND OTHER NOTES.

Cut flowers are wholesaling here as follows, just now: Golden Gate, Bride, Bridesmaid, \$1.50 to \$2.50 per hundred, according to quality; Kaiserin \$3 to \$5; Beauties, average stock, \$1.50 per dozen; chrysanthemums \$6 to \$15 per hundred; carnations \$1 to \$1.50 per hundred.

The weather has been exceedingly warm this fall, and business rather slack, but the last week the temperature was lower and business has kept all the florists busy, so that few flowers have gone to waste.

Rudolph Schelm, Jr., for a number of years employed by F. Walker & Company, at their Fourth avenue store, died recently of typhoid fever, aged 21 years.

C. W. Reimers recently supplied 1,700 cut chrysanthemums in a wedding decoration. He is cutting a fine lot of Beauties and finding ready sale for them.

C. H. Kunzman and Louis Kirch, the two carnation specialists, are cutting fine carnations for this season and find ready sale for them.

Chas. Rayner has just completed planting his new range of carnation houses and is cutting very good blooms.

The sale of bulbs and nursery stock has been rather slow up to this time, owing to continued warm weather.

T. B. Rudy has added another story to his residence. H. G. W.

Hamilton, Ont.

The Hamilton Gardeners' and Florists' Club held its regular meeting on Tuesday, November 4. It was the yearly business meeting, for the election of officers. The following were elected: President, Thos. Lawson; vice-president, E. J. Townsend; secretary, Charles M. Webster; treasurer, Dave McLeod; auditors, Samuel Aylett and Jay C. Jenks.

The club has been organized only one year and has made very satisfactory progress. The treasurer reported a balance of \$14.65 on hand. There are a very large number in and around Hamilton engaged in the trade and the prospects for a big club are good.

AURORA, ILL.—A. J. Erlenborn has bought the interest of Fred. Grometer in the paper and seed business of Erlenborn & Grometer.

Mushroom Spawn



Frequent importations from England. Always fresh and lively.

CARNATIONS

Strong, healthy plants, grown on high land.
 100 1000 100 1000
 Portia.....\$4.00 \$35.00 Eldorado... \$4.00 \$35.00
 Scott..... 4.00 35.00 Daybreak... 4.00

J. J. Styer, Concordville, Pa.

HERRON....

Carnation Grower,

OLEAN, N. Y.

CARNATIONS!

FINE, LARGE, HEALTHY FIELD-GROWN PLANTS.

	Per 100	Per 1000		Per 100	Per 1000
White Cloud.....	\$6.00	\$50.00	Marquis	\$5.00	\$40.00
Norway.....	6.00	50.00	Guardian Angel ..	5.00	45.00
			Prosperity.....	5.00	40.00

WIETOR BROS., 51 Wabash Ave., Chicago.

Unrooted CARNATION CUTTINGS or Pips

These are healthy, short jointed, A No. 1 side cuttings.

	Per 100	Per 1000		Per 100	Per 1000
QUEEN LOUISE, white.....	\$4.00	\$7.50	ARGYLE, pink.....	\$.60	\$5.00
MERMAID, a fine salmon pink...	1.00	7.50	JOOST, pink .....	.60	5.00
GENEVIEVE LORD, light pink..	.60	5.00	ELDORADO, yellow .....	.60	5.00
EVANSTON, red .....	.60	5.00	GEN. MACEO, crimson ..	.60	5.00
TIDAL WAVE, dark pink.....	.60	5.00	EGYPT, maroon.....	.60	5.00

Express prepaid by us at above figures.

CALIFORNIA CARNATION CO., LOOMIS, CAL.

CARNATIONS

Field-Grown Plants.

	Per 100	Per 1000
PROSPERITY	\$3.00	\$25.00
MARQUIS.....	3.00	25.00
EVANSTON.....	3.00	25.00
JOOST.....	3.00	25.00

Strong, Healthy Plants.

GEO. REINBERG, 51 Wabash Ave. CHICAGO.

Unrooted Carnation PIPS READY.

	Per 100	Per 1000
Gov. Wolcott, white, 1902.....	\$2.00	\$18.00
Alba, white, 1902	2.00	18.00
Golden Beauty, yellow, 1902	2.25	20.00
Violanita, variegated, 1902	5.00	40.00
Dorothy, pink	1.50	13.00
Gov. Roosevelt, crimson	1.25	10.00
Norway, white	1.00	8.00
Eldorado, yellow .....	.50	5.00
Gen. Maceo, maroon.....	.50	5.00

Asparagus Sprengeri from flats, \$1.50 per 100; \$7.50 per 1000. 25 at 100 rates, 250 at 1000 rates. Cash. Express prepaid.

WESTERN CARNATION CO. E. N. FANCHER, Mgr. LOOMIS, CAL. Please mention the American Florist when writing.

CARNATIONS

\$25.00 per 1000 to close these large healthy Carnations—The Marquis, G. Lord and Frances Joost. Order quick if wanted.

Albert H. Brown Co., Westboro, Mass.

ASPARAGUS PLUMOSUS

4-inch, \$10.00 per 100; 3-inch, \$6.00 per 100. H. HILLS, Elkhart, Ind. Please mention the American Florist when writing.

LILLIAN POND

The Largest and Best White.

A pure white flower averaging 3½ inches on long stiff stems. A continuous, free and early variety with a flower perfectly formed and very fragrant.

A Money Maker for You All.

Orders filled strictly in rotation, delivery commences January 1st, 1903.

PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00.

S. J. REUTER, WESTERLY, R. I.

Miss Louise

The Longest Stemmed and Most Fragrant Carnation In Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink shade, similar to a well colored Bridesmaid rose and average 3 to 3½ INCHES Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for FEBRUARY delivery from now on.

FICK & FABER, SAN MATEO, CAL.

ROOTED CUTTINGS OF

ROSES

Now ready. Write us your wants.

BOSTON FERNS, in 2½, 3, 4, 5, 6, 7, 8 and 10-in. STOCK PLANTS OF CHRYSANTHEMUMS. GERANIUMS in 2½-inch pots. SMILAX, PLUMOSUS and SPRENGERI. CINERARIAS, in 4-in. pots, extra nice plants. CUT FLOWERS, Roses, Carnations and 'Mums.

Write Geo. A. Kuhl, Pekin Ill.

ASPARAGUS SPRENGERI

Field-Grown. These plants have short tops and extra strong root; are cheaper and give quicker returns than pot-grown stock; \$4.00, \$6.00 and \$8.00 per 100, according to size.

ADIANUM CAPILLUS VENERIS—One of the best for fern dishes and other decorative work. 2½-inch pots. \$3.00

ADIANUM CAPILLUS VENERIS IMBRICATUM—Excellent for filling fern dishes. Wide pinna like Farleyense, 2½-inch. 5.00

ANEMONES—Japanese Alba. 6.00
Elegantissima, a new variety of exceptional merit. 10.00

Lady Ardilaun. 8.00
Queen Charlotte. 8.00
Rosa Superba. 12.00

BEGONIA INCARNATA—The most useful Begonia for winter flowering, 3-inch pots. 8.00

CAREX JAP. VARIEGATA—A useful decorative grass, 2½-inch pots. 2.50

CINERARIA STELLATA—From 2 to 4 feet high. The plant makes a most effective display, either as a specimen or in groups, 3-in. pots. 5.00

CYPERUS ALTERNIFOLIUS—Bushy outdoor-grown plants, in 3-inch pots, extra strong, ready for a shift. 4.00

NEPHROLEPIS DAVALLIOIDES FURCANS—We consider this to be the handsomest fern in cultivation. Has no equal as a Christmas plant. Have a fine lot in 5 and 6-in. pans, \$5.00 and \$6.00 per dozen.

PHALARIS ARUNDINACEA VARIEGATA—Of the variety which retains its bright variegations of white and green throughout the season. Can highly recommend it as an effective border plant. Large field-grown clumps. 6.00

PRIMROSES—(Chinese) separate colors, white, light pink, scarlet and blue. From the finest imported seed, 3-inch pots. 5.00

PTERIS CRÆTICA ALBO-LINEATA—Variegated; very useful and pretty, 2½-inch pots. 3.00

PYRETHRUM (Hybridum)—Gives the best of satisfaction both as to variety of color and freedom of bloom; the colors range from pure white to deep blue; field-grown. 8.00

TRITOMA UVARIA GRANDIFLORA—An old standby; strong divisions. 5.00

VALERIANA OFFICINALIS (Garden Heliotrope)—Strong divisions. 5.00

VINCA MAJOR VARIEGATA—Large, field-grown clumps with 12 to 20 runners; a good seller during the winter. 8.00

VIOLETS, California—Field-grown, 2nd size. 3.00

NATHAN SMITH & SON, Adrian, Mich.

Violets and Hardy Pinks

STRONG FIELD CLUMPS.

California and Single Russian. \$3.00 per 100
Admiral Avelon and La France. 5.00 per 100
Comet, Souv. de Sale, May, Gertrude, Earl of Carlisle. 6.00 per 100

The Conard & Jones Co., West Grove Pa.

Cyclamens

Finest strain, strong, bushy plants, well set with buds, in 4 and 4½-inch pots, ready now for a shift, \$25.00 per 100.

Boston Ferns

Beautiful specimen plants in 7-inch pans, three plants to each. These are money makers. \$9.00 per doz. Cash or C. O. D.

Jno. A. Keller, Florist, Lexington, Ky.

'MUMS,

STOCK PLANTS.

Write for varieties and prices.
H. WEBER & SONS, OAKLAND, MD.

MUST BE SOLD.

Per 100
5000 CALIFORNIA VIOLET CLUMPS, fine. \$3.00
5000 SPIRAEA ANTHONY WATERER, 2 feet, 2 year, old, for Easter forcing. 7.00

VINCA MAJOR VAR and TRITOMA UVARIA, strong, field plants. 5.00
BOSTON FERN, from bench, fit for 5-in. pots, 12-15.
SEND FOR LIST. Cash please.
BENJAMIN CONNELL, West Grove, Pa.

CYCLAMENS.

Well set with buds, 4-inch, \$12.00; 6-inch, \$18.00 and \$25.00.
CINERARIA, 3-inch strong, frame grown, \$5.00.
PRIMROSES, 4-inch, \$8.00.
Field-grown ASPARAGUS SPRENGERI, \$3.00, \$5.00, \$7.00 per 100.

Christ, Winterich, Defiance, Ohio.

Palms, Ficus, Azaleas, Etc.

PALMS.

KENTIA BELMOREANA, 2½-in. pots, \$6.00 per 100; \$50.00 per 1000.

KENTIA BELMOREANA, 3-in. pots, \$12.00 per 100; \$100.00 per 1000.

KENTIA BELMOREANA, 24 to 28 inches, fine bushy plants, \$1.25 each; \$15.00 per doz.

KENTIA BELMOREANA, 30 to 32 inches, perfect condition, \$4.75 each; \$20 per doz.

CYCAS REVOLUTA, 60c, \$1.00, \$1.25 \$1.50 and \$2.00 each.

AZALEAS, 10 to 12-in. crowns, \$35 per 100.
" 12 to 14-in. crowns, \$45 per 100.
" 14 to 15-in. crowns, \$55 per 100.

FICUS, TRUE BELGIAN VARIETY.

4-in. pots, heavy strong stock, \$25 per 100.
4-in. pots, lighter plants, \$15 per 100.

BOSTON FERNS, 2½-in. pot, \$4.00 per 100.

PRIMULA CHINENSIS, 2½-in. pots, \$2.50 per 100.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.



ARECA LUTESCENS, per doz.—2¼-inch, 75c; 3, \$1; 3½, \$2; 4, \$3.
KENTIA BELMOREANA, per doz.—2¼-inch, \$1.50; 3-inch, \$2; 3½-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20; 6-inch, \$18.
KENTIA FORSTERIANA, per doz.—2¼-inch, \$1.50; 3-inch, \$2.00; 3½-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20.
LATANIA BORBONICA, per doz.—2¼-inch, 60c; 3, \$1; 6, \$7.20; 7, \$10.
PANDANUS VEITCHII, per doz.—5-in., \$12; 6 in., \$18; 8-in., \$42.
PANDANUS UTILIS, 4-in., \$3 per doz.
NEPHROLEPIS BOSTONIENSIS, per doz.—5-in., \$3; 6-in., \$6; 7-in., \$9; 8-in., \$12; 9-in., \$18; 10-in., \$24.
ASPARAGUS PLUMOSUS NANUS, per 100—2-in., \$4; 3-in., \$8; 4, \$12.
ASPARAGUS SPRENGERI, per 100—4-inch, \$12.
PHOENIX CANARIENSIS, 6-inch, \$6 per doz.
SEAFORTHIA ELEGANS, 5-inch, \$5 per doz.
ORACAENA INDIVISA, 4-in., \$2; 5-in., \$3; 6, \$5; stroog, \$5 per doz.
ADIANUM, 2 in., \$4; 3-in., \$5 per 100. Small ferns for dishes \$3 per 100; \$25 per 1000.
FERN BALLS, well furnished with leaves, \$3 to \$5 per doz.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

PRIMROSES.

Improved Chinese. Finest large flowering fringed varieties grown. Single and double, ready for 3-inch pots, \$2.00 per 100. Cash. Enough extras will be added to every order to pay express.
JOHN F. RUPP, - SHIREMANSTOWN, PA.
The Home of Primroses.

The COTTAGE GARDENS, QUEENS, L. I.

SEND FOR PRICE LIST OF
Paeonias, Herbaceous Plants, Phlox, Azaleas, Specimen Trees and Shrubs.

LITTLE POINTS IN VIOLET CULTURE

Are often the most important points. My booklet makes a specialty of the little points. If you are in any way interested in Violets you should send for a copy of it. The price is only 50 cents, postpaid.

W. H. THOMAS. Author and Publisher, CONVENT STATION, N. J.

VIOLETS Lady Campbell and Swanley White, 3-in. pots, \$30.00 per 1000.
Chrysanthemum stock J. S. Kullb, Bon-nation, T. v o r y . White and Yellow Robinson and Col Appleton, at \$6.00 per 100.

Carnations sold except Daybreak, White Day-break, Mme. Chapman and Guardian Angel.
CRABB & HUNTER, GRAND RAPIDS, MICH.

Nephrolepis Bostoniensis

2½, 3, 4, 5 and 6-inch, fine plants. Prices right. Call or write

LUDWIG MOSBAEK, 8500 Anthony Ave. South Chicago, Ill.

Ericas, Palms

Flowering Plants and Bay Trees.

Cut blooms of **LILY OF THE VALLEY** at all seasons, \$3 and \$4.00 per 100.
Write for my Wholesale Catalogue.

ANTON SCHULTHEIS, College Point, N. Y.

Orders booked now—delivery in September—for my Nephrolepis Fern

"ANNA FOSTER"

Small plants, \$25.00 per 100; larger plants prices on application.

BOSTON FERN now ready at \$25 and \$50 per 100.

L. H. FOSTER, 45 King St., Dorchester, Mass.

Chicago Carnation Co.
Joliet, Illinois.

Washington, D. C.

FINE AUTUMNAL WEATHER.—OUTDOOR STOCK NOT YET GONE.—MANY GOOD CHRYSANTHEMUMS AVAILABLE.—VARI- OUS NOTES.

With the continued fine weather and not much frost, quite a number of out- door flowers find their way to the mar- ket. In the stores trade is picking up a little of late. There has been quite a number of weddings, but most of the decorations were on a small scale. The American Rose Company made the bou- quets for the wedding of State Senator Brown's daughter at Crisfield, Md., using about 8,000 violets. They are cutting some fine chrysanthemums, Mrs. F. L. Button, Robert Halliday and a few vari- eties of the latest pompons.

The show at the Department of Agri- culture is drawing large crowds of visi- tors. They fitted up the house with electric lights and have it open until 10 o'clock at night. At the propagating garden they have opened their chrysan- themum house to the public and are giv- ing a rival show with a fine lot of flowers, all on single stems.

J. H. Small & Son, J. R. Freeman, A. Gude & Brother, C. Schellhorn and J. Louis Loose are all cutting fine chrysan- themums.

The growers are feeling somewhat casier about the coal question. P. G.

Mansfield, O.

BERNO FLORAL COMPANY PROSPERING.— GOOD STOCK AND HEAVY CUTS.—PER- SONAL NOTES.

The Berno Floral Company has added a splendid carnation house to its already extensive range and has made various other improvements about the establish- ment. While growing a general stock for their retail trade, it is the intention to pay especial attention to roses and carnations. Their stock is in fine condi- tion, yielding considerable for present use and promising fine crops for the near future. Their chrysanthemums have never looked finer.

Young Mr. McKellar, of Chillicothe, has accepted a position with the Berno Floral Company.

Mr. Berno, who has been on the sick list during the past summer, is improving in health. NOMIS.

COLORADO SPRINGS, COL.—J. R. Coryell, manager of Gen. Wm. R. Palmer's fine estate, has just completed two fine iron- frame greenhouses, one 25x111, the other 28x111.

Primroses

CHINESE, single, mixed, 2 1/4-in. pots.....\$1.50
 ASP. PLUMOSUS, 2 1/4-inch pots..... 3.00
 GERANIUMS, 10 varieties, 2-inch pots..... 2.50
 PANSY PLANTS.....\$2.50 per 1000.

CASH OR C. O. D.
JOS. H. CUNNINGHAM, Delaware, O.

GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs....
\$2.00 Per Year. Sample Copies Free.
 Liberal terms to florists who take subscriptions.
THE GARDENING CO. MONON BUILDING, Chicago, Ill., U.S.A.

Herbaceous PÆONIAS.

Kelway's Choice Double Varieties,

All strong roots, two and three eyes each, strictly true to name and unmixed.

\$10.00 per 100, except as noted.

- ABEL DE PUJOL, lilac rose.
- AMBROSE VERSCHAFFELT, rose.
- BEAUTE DE VILLECANTE, purplish-rose, pink center.
- BRIDESMAID, light pink.
- BUYCKII, flesh-rose, 12c.
- CHAS. DE BELLEyme, purple, shaded deeper violet.
- DAK CRIMSON, the popular old crimson variety, 8c.
- DON JUAN, purple.
- ECLAIR, light pink, 12c.
- EUBOLES, pale rose, 12c.
- HESPERIDES, white, flesh guard petals.
- HUMEI, rosy-pink, very large and full, extra fine; late.
- LUCY MALLARD, rosy-carmine, full.

- MME. CALOT, pure white, tinted rose, 12c.
- MAXENTIUS, crimson.
- MEDUSA, rosy-lilac.
- Mlle. VILLANT, blush, yellow center, with red tips, 12c.
- MODESTE, rosy-purple, crimson center.
- PRINCE IMPERIAL, purple.
- PRINCE PROSPER, deep crimson.
- PSYCHE, flesh.
- PURITAIN, light pink.
- SOUV. DE L'EXPOSITION UNIVERSELLE, pink.
- THISBE, delicate flesh-pink, 12c.
- VESTICUS, pink.
- VICTOIRE TRICOLOR, rose, rose and white center.
- VIOLACEA PLENA, purple, short petals.

- 25 Other Choice Kelway Varieties of Double Paeonias \$10.00 per 100
- Kelway's Double Paeonias, mixed 6.00 per 100
- Kelway's Choice Single Paeonias, named..... 15.00 per 100

J. T. Lovett, Little Silver, N.J.

\$2 50 PER 1000.

GIANT PANSIES, fine stocky plants, in varie- ty equal to any.
 FORGET-ME-NOTS, in mixture.

DOUBLE DAISIES—Snowball, Giant, Long- fellow.
 Satisfaction guaranteed. CASH.

BYER BROS., Chambersburg, Pa.

GERANIUMS ROOTED CUTTINGS.

S. A. Nutt, Heteranthe and Buchner, at \$1.25 per 100; \$10.00 per 1000.
 Perkins, Poitevine, Landry and Riccard, at \$2.00 per 100; \$15.00 per 1000
 Viald, the best pink bedder, and Castellane, the best red bedder, at \$2.50 per 100; \$20.00 per 1000.
 I have the above in any quantity and will sell 250 at 1000 rates and quote special prices on lots of 10,000 or over.
 Bonnot, Castris, Acteon, Harrison, Jaulin, La Favorite and La Pilot, by the 100 only at \$1.50 per 100.
 I have a high grade bone meal for Florists' use at \$3.50 per 200 lb. bag or \$32.50 per ton.

ALBERT M. HERR, LANCASTER, PA.

SPECIAL OFFER FOR SHORT TIME

Only to make room, extra fine lot

MIXED FERNS

from 2-inch pots, strong and well grown, \$3.00 per 100; \$25 per 1000. All good varieties. Do you want a lot of *Cyrtolium Falcatum* at \$3.50 per 100?

BEARD BROS., 1248 W. Fort St., Detroit, Mich.

Cannas.

FALL DELIVERY—Italia, Austria, A. Bouvier, Alsace, Burbank, \$1.50 per 100; \$12.00 per 1000. Sample bulbs sent prepaid for 25c. Write us.

MANGELSDORF BROS. CO., Atchison, Kan.

WE NOW OFFER

"Chemicals"

for making LIQUID COMPOST. Dry powders all soluble in water. Composts cost less than 1/20 per gal. Correspondence invited.

EASTERN CHEMICAL COMPANY, 620 Atlantic Ave., Boston.

ALWAYS mention the AMERICAN FLO- RIST when writing to advertisers.

Ficus Elastica 4 and 5-in. Pots.

Latania Borbonica and Kentias 3 and 4-in. pots

I have a fine stock of the above which is offered to the trade at a bargain. If you have room a large profit can be made on these plants in a short time. Write for prices; they are too low to quote here. **W. W. COLES, KOKOMO, IND.**

FERNS.

2 1/4-inch Mixed Ferns..... \$3.00 per 100 Cash
 2 1/2-inch Dracena Indivisa..... 3.00 per 100 or
 25 Mixed Ferns, prepaid..... 1.00 C.O.D.

WM. A. CLARK & SON 44 Boyd Street, Watertown, N. Y.
 Please mention the American Florist when writing.

ASPARAGUS SPRENGERI.

3-inch pots, nice plants, \$4.50 per hundred. 🌿🌿

J. B. HEISS, THE EXOTIC NURSERIES, DAYTON, OHIO.

SPECIALTIES

ROSES, from 3-inch pots. In Best
 CARNATIONS, for all delivery, Varieties
 CHRYSANTHEMUMS,
 SMILAX, VIOLETS.

Prices Low. Send for List.
WOOD BROTHERS, Fishkill, N. Y.

S. S. SKIDELSKY,

708 North 16th St., Philadelphia, Pa.
 Please mention the American Florist when writing.

PURE BONE MEAL

For Florists' and Seedsmen's Use.

We guarantee this Bone Meal to be Unacidulated and free from Adulterations. Prices and terms quoted on application.

You can make money and at the same time you can do your customers a favor by offering

Walker's Excelsior PLANT FOOD

Put up in neat packages for retail trade, in 150 and 250 packages. This allows you a handsome profit. Leading Florists use it in their soil and we furnish it in bulk for florists' use. We also manufacture the JAPANESE PALM FOOD for Palms, Rubber Plants and Ferns.

FLOWER CITY PLANT FOOD CO. ROCHESTER, N. Y.

TO KILL ALL Greenhouse Bugs USE "NICOTICIDE"

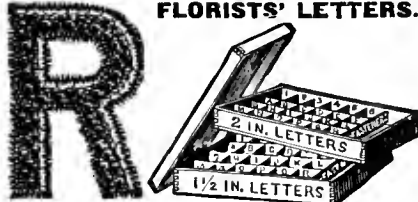
Clean and harmless as Fumigant or Spray. Ask your seedsman for it or write to

The Tobacco Warehousing and Trading Co.,

1000 Magnolia Ave., - Louisville, Ky.

Boston Florist Letter Co.

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00. Script Letters \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager, 84 Hawley St., BOSTON, MASS.

NOTICE.

Mr. H. Schwartz, Florist, Galveston, Tex., writes:

"I have used Bollene; it killed all insects in my hothouse and garden. I found it the safest and best remedy for scale insects, cut worms, lice, spiders, caterpillars, ants, grasshoppers, etc., and can highly recommend it. It does not injure the flowers or plants."

Bollene is a concentrated insecticide. One quart will make 50 quarts of spraying solution. PRICE: Per quart, \$1.00; per gallon, \$2.25; in 5 gallon lots or over, \$2.00 per gallon.

The Bollene Mfg. Co., 127 Duane St., N. Y.

CHRISTMAS BELLS



ILL soon be ringing, whether we get coal or not. Buy your stock of scarlet immortal bells now.

They are beautiful, uniform and perfect. There's money in handling them at present prices.

We have a new line of Straw Baskets made especially for our American Trade.

Wax Roses and other Continental Novelties. A very attractive stock selected by our Mr. H. B., while in Europe.

New Immortelles are on the way and first shipment due to arrive now.

H. Bayersdorfer & Co.

50-56 NORTH FOURTH STREET, PHILADELPHIA, PA.

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25. Manufactured by W. J. COWEE, BERLIN, N. Y. Sample Free. For sale by dealers.

LEADING Florists' Supply House M. RICE & CO.

Importers and Manufacturers, 918 Filbert Street, PHILADELPHIA, PA. Catalogue for the asking.

Please mention the American Florist when writing

HEADQUARTERS FOR HORTICULTURAL SUPPLIES Of Every Description.

When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

DUNNE & CO., 64 W. 30th St., New York. Telephone Call, 1700 Madison Square.

.....If you.....

Business Methods

are right you can make a profit on an advertisement here.

HORTICULTURAL ENGRAVING & PRINTING

To Increase

our supply of up-to-date stock cuts we will make engravings of any subject desired and sell you electrotypes for thirty-five cents per square inch. This work will be our finest grade of wood engraving, giving the same quality that characterizes our work. Send us photographs, or sketches of your needs or the objects and we will make the engravings direct from them. We can supply at short notice and at list price any

Stock Electrotypes

sold by any house if you will send us the number, print or description.

For the Seedsman

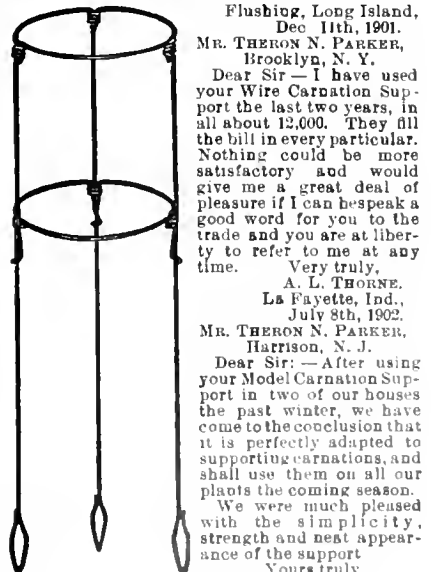
who desires exclusive engravings we desire to say that we shall still adhere to our principle of protection and shall give our work the same careful attention as in former years. We make every style of engraving and do printing of every description to help the horticulturist to place his products before the buying public in an attractive manner.

JAS. M. BRYANT. 706 CHESTNUT STREET PHILADELPHIA PA.

NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn, N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

The Model Extension Carnation Support.



Flushing, Long Island, Dec 11th, 1901.

MR. THERON N. PARKER, Brooklyn, N. Y.

Dear Sir - I have used your Wire Carnation Support the last two years, in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.

Very truly, A. L. THORNE, La Fayette, Ind., July 8th, 1902.

MR. THERON N. PARKER, Harrison, N. J.

Dear Sir: - After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season.

We were much pleased with the simplicity, strength and neat appearance of the support

Yours truly F. DORNER & SONS CO.

Write for Circular and Price List. CALVANIZED STEEL ROSE STAKES. The Parker-Bruen Mfg. Co. Inc. 208 Jersey St., Harrison, N. J.

Please mention the American Florist when writing

Toronto.

NEW CARNATIONS DOING FINELY AT DUNLOP PLACE.—ROSE HOUSES MAKE FINE SHOW.—MANY CHOICE CHRYSANTHEMUMS IN MARKET.—OCTOBER THE BANNER MONTH.

At John H. Dunlop's, I find the place is in splendid shape and all evidence of building is over for this season. In the rose ranges stock was looking very vigorous, American Beauties on several benches being particularly good, the foliage having that healthy, glossy appearance so desirable in growing stock. His house of Liberty is producing very good blooms, at which Mr. Dunlop is more than pleased, this variety having been a conundrum with him for the past two years. The plants are mostly grafted and have been carried over from last season. Balduin and Ivory have done well and the older sorts have all made good breaks. In the carnation range nearly all the newer varieties of the past season are seen, and are mostly doing well. The dark sort, Harry Fenn, is very fine and its productiveness seems about two to one compared with others. In white Governor Wolcott, Norway and Lorna are doing exceptionally well. Alba has shown a few good blooms but the plants are small and have not made the growth of the other varieties. In fancies, Gaiety is also doing well, while Viola Allen and Stella are noticed in very good shape. J. H. Manley, Mrs. Potter Palmer, Higginbotham, Golden Beauty, Cressbrook and Mrs. Nelson are promising well.

October was the busiest in many years and reports on all sides are satisfactory, most firms having exceeded the record month of last year, when the visit of royalty was so favorable for florists. The first few days of this month have not been so brisk, made more noticeable by the large amount of stock which is coming in. Very fine chrysanthemums are in evidence everywhere and, as there is to be no show, the best flowers are now making the stores attractive. Prices of cut stock are uneven, many bargains being offered. The most favorable weather has oversupplied the market with exceptionally good roses. Carnations are also in heavy crop and the sales hanging somewhat. Violets are becoming plentiful, singles selling more readily than doubles.

The union of the florists' employes is progressing rapidly. They have affiliated with the American Federation of Labor and at the last meeting, at Richmond Hall, four new members were enrolled. Jas. Atkins, of Government House, was elected president, and G. Cooper secretary.

A new addition to the family has been the cause of Andrew Frost's bright demeanor. H. G. D.

NORRISTOWN, PA.—Robert Hull has a fine show of chrysanthemums.

SHIPPING LABELS FOR

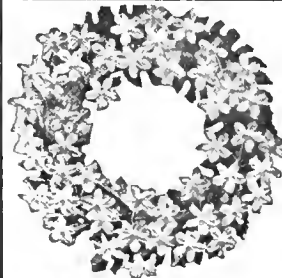
...Cut Flowers

Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples....

ELECTRO OF THIS LEAF, POSTPAID, \$1.25.

American Florist Co., CHICAGO.

Factory of Metal Wreaths



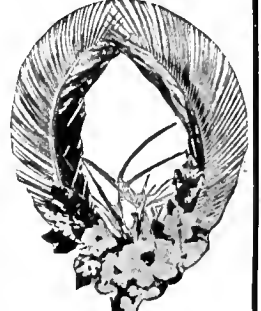
No. 37.

No. 37. Round Daisy-Leaf Frame, 15 inches diameter, trimmed with purple, white or pink violets. Each, 75c.



No. 80.

No. 80. Round Chrysanthemum-Leaf Frame, leaves shaded, 15 inches diameter, trimmed with St. Joseph lilies and lily leaves. Each, 75c.



No. 1020.

No. 1020 Sago Wreaths, trimmed with lilies and grasses, 35c each.

SAGO LEAVES, our own manufacture, the best preparation only and guaranteed a first-class leaf. From 18 to 36 inches long, in lots of 50, \$4.50; per 100, \$8.00.

METAL WREATHS

Sago Leaf.

From 15c, up to the latest designs, as standing crosses, standing wreaths, and in fact any design that can be made up on natural flowers will be furnished in any color and style to suit your wishes.

ASK FOR MY ILLUSTRATED CATALOGUE OF METAL GOODS OR FOR MY ILLUSTRATED CATALOGUE OF DECORATIVE PLANTS.

FRANK NETSCHERT 34 Barclay Street, NEW YORK. 187 S. Clark Street, CHICAGO.

WESTERN FLORISTS...

can save money in buying

SUPPLIES

from BARTELDES & CO.,

1521 15th Street, Denver, Colo.

We are now booking orders for Christmas Decorations. Get our prices at once.

NOTICE.

GLENTZER'S POSITIVE CURE

for Rust on Carnation Plants; guaranteed not to fail when applied twice on worst affected plants; prevents all other diseases. Small pkg. \$2.00; Large pkg. \$5.00; with directions. Sold by

M. A. Glentzer, Florist, Massillon, O.

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Franz Birnstiel,

COBURG, GERMANY.

Baskets, Puerto Rico Mats, Cycas, Waterproof Paper, Glass, China.

FOR THE WHOLESALE TRADE ONLY.

Sigmund Geller

Importer and Manufacturer of

FLORISTS' SUPPLIES

Looking for Fall Novelties?

LOTS OF THEM ON EXHIBITION.

108 W. 28th Street, New York.

Please mention the American Florist when writing.



EVANS' IMPROVED CHALLENGE VENTILATING APPARATUS

WRITE FOR ILLUSTRATED CATALOGUE QUAKER CITY MACHINE WORKS RICHMOND, IND.

It is good business policy to mention the

American Florist

.....when writing to an advertiser.

CUT FLOWER BOXES

WATERPROOF. Corner Lock 8 style.

The best, strongest and neatest folding cut flower box ever made. Cheap, durable, handy. To try them once is to use them always.

DON'T USE OLD STORE BOXES.

If you have any doubt, send for samples, which speak for themselves.

Size No. 1.	3x4 1/2 x 16.	\$1.75 per 100; \$15.00 per 1000
" No. 2.	3x6 x 18.	2.00 " 18.00 "
" No. 3.	4x8 x 18.	2.40 " 22.00 "
" No. 4.	3x6 x 20.	2.75 " 25.00 "
" No. 5.	4x8 x 22.	3.00 " 28.00 "
" No. 6.	4x8 x 28.	3.75 " 35.00 "

THE LIVINGSTON SEED CO.

Box 103, COLUMBUS, O.

TIN FOIL

Plain, Fancy, Printed & Mounted,

Manufactured by

The Conley Foil Co.

521 to 541 West 25th St.,

NEW YORK.

FOR THANKSGIVING DAY

the Nickel Plate Road will sell tickets within distances of 150 miles, November 26th and 27th, at rate of a fare and a third for the round trip. Tickets good returning until November 28th, inclusive. This road has three express trains daily to Ft. Wayne, Cleveland, Erie, Buffalo, New York and Boston, with vestibuled sleeping cars. Also excellent dining car service, meals being served on Individual Club Plan, ranging in price from 35c to \$1.00; also a la carte. For reservation in sleeping car or other information, address John Y. Calahan, General Agent, 113 Adams St., Room 298, Chicago. City Ticket Office, 114 Adams St. Phone Central 2057. 60.

ESTABLISHED 1866 **EMIL STEFFENS** SUCC.^{TO} N. STEFFENS. AND STEFFENS BROS.
 MANUFACTURER OF
FLORISTS' WIRE DESIGNS & SUPPLIES
 335 EAST 21ST ST. NEW YORK CITY.



THE KINNEY PUMP.
 For applying Liquid Manure it has no equal!
 Sent prepaid for \$2.00.

Address **The HOSE CONNECTION CO.** KINGSTON, R. I.

The Standard

The lightest running, most rapid and powerful ventilating machinery in the market.

DUPLIX GUTTERS

Made of wrought or cast iron with self-adjusting sash bar clips. The only Drip Proof Metal Gutter offered to the public. Send for my catalogue free.

E. HIPPARD, Youngstown, O.

SIEBERT'S ZINC NEVER RUST GLAZING POINTS
 Two sizes, $\frac{3}{8}$ and $\frac{1}{2}$, 40c a lb.; by mail, 10c extra. 7 lbs. for \$2.50; 15 lbs. for \$5.00, by express.

Over 6,000 lbs. now in use. For sale by seedsmen or **CHAS. T. SIEBERT, Sta. B, Pittsburg, Pa.**

Horticultural Builders & Heating Engineers Phillips Mfg. Co.

Established 1900. **JERSEY CITY, N. J.**
 In 26 months we have built for private estates 87,347 square feet of Glass Houses and have orders for still more. We are just completing a Range for Oakwood Cemetery, Syracuse, N. Y. We want your patronage. Tel. 1851 Bergen.

The Florists' Hail Asso'n Pays Losses Promptly.

Reserve fund \$10,000. For particulars address **JOHN G. ESLER, SADDLE RIVER, N. J.**

THE Gardeners' Chronicle.

A Weekly Illustrated Journal. ESTABLISHED 1841.

The GARDENERS' CHRONICLE has been for over SIXTY YEARS the LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, the information furnished is of such general and permanent value that the GARDENERS' CHRONICLE is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, \$4.20 per year. Remittances to be made payable to H. G. COVE. OFFICE:—

41 Wellington St., Covent Garden, London, England.

Miniature Baby Greenhouse



FOR GROWING SMALL PLANTS.
 Two Sizes. } No. 1. 11 1/4 x 12 3/4 and 11 inches high.
 } No. 2. 15 1/2 x 16 1/2 and 15 1/4 inches high.
 Are folded up in compact package of about one cubic foot; weight about 18 pounds.
 SMALL OR No. 1 SIZE. LARGE OR No. 2 SIZE.
 1 house.....\$ 4.50 1 house.....\$ 6.50
 2 houses..... 8.50 2 houses..... 12.50
 4 houses..... 16.50 4 houses..... 24.00
 6 houses..... 24.00 6 houses..... 34.50

SIEBRECHT & SON, NEW ROCHELLE, N. Y.

SOMETHING ENTIRELY NEW.

A Florists' Plate Book.

150 Plates and nearly 300 varieties for \$3.50 or three for \$10.00.

You can't do business without it. **VREDEBURG & CO., Rochester, N. Y.**

A. HERRMANN,

Cape Flowers, all colors,
 Cycas Leaves, Metal Designs,
 and All Florists' Supplies.

Send for Prices.

404-412 East 34th St. **NEW YORK.**

Fumigating Kind Tobacco Powder
 KILLS ALL APHIS IN ONE NIGHT
 In a house 10x25 ft., at a cost of 10c. A 5 lb. trial pkg. will cost nothing if you will pay the express charges on it. Our booklet tells of it. Write Dept. C. for it.
The H. A. STOOHOFF COMPANY
 116, 117, 118 West St., N. Y. City

KIFT'S Patent ADJUSTABLE VASE HOLDER

No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$2.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nickel, with three clasps for 5 to 6-inch pots, each \$1.75.

KIFT'S Patent Rubber Capped FLOWER TUBES, 1 1/2-inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1726 Chestnut St., Phila., Pa.

The Horticultural Trade Journal

THE LARGEST, BRIGHTEST AND BEST Horticultural Trade paper in the British Isles. It contains MORE ADVERTISEMENTS, MORE ILLUSTRATIONS and MORE NEWS than any of its contemporaries. Read by the whole of the British trade and all the best European houses every week. Annual subscription, 75 cents. Specimen copy post free. Published weekly. Horticultural Trade Journal Co., Padiham, Lancs., Eng.

Mention the American Florist when writing to advertisers on this page.

Bargains FOR Florists.

We are headquarters for a general assortment of the necessary material and supplies that you are looking for. If you are about to improve or construct, consult us.

In connection with the dismantling of the Pan-American Exposition, we have for sale:

20,000,000 FEET of fine seasoned lumber, practically new, consisting of all sizes of joists, timbers, dressed and matched boards and flooring; also sash and doors.
50,000 FEET of roofing glass.

PIPE.

We are headquarters for pipe. We offer you:

100,000 FEET of 2 to 4-inch wrought iron, lap welded casing. We can furnish this material in three ways: Either with sleeve or jacket couplings, screwed ends and threaded couplings or with expanded cast iron flanges with bolts and nuts.

1,000,000 FEET of standard black wrought iron pipe, size $\frac{3}{8}$ to 12-inch. It is second-hand but has new threads and couplings and is in first-class condition.

1,000 TONS of galvanized wire 9, 10, 11, 12, 13, 14 and 15 gauge.

50,000 FEET of 2, 3 and 4-inch cast-iron soil pipe and fittings.

100,000 FEET of garden hose, $\frac{3}{4}$ and 1-in. **75,000 FEET** of cotton rubber-lined fire-hose, (rubber-lined in and outside), ranging in sizes 1 to 2 1/2-inch.

VALVES and fittings of every kind.

BOX COILS for heating purposes.

RADIATORS, new and second-hand.

We also offer the following bargains in

Heating Boilers

50 CAST-IRON sectional heaters, capacity from 450 to 5,000 feet.

1 NO. 2 Standard Kroeschell hot water heating boiler.

FOUR 36x10 Horizontal Tubular.

FOUR 36x12 Horizontal Tubular.

FIVE 42x10 Horizontal Tubular.

FIVE 42x12 Horizontal Tubular.

SIX 48x14 Horizontal Tubular.

TWO 54x16 Horizontal Tubular.

FOUR 60x16 Horizontal Tubular complete with all fittings.

PUMPS of all Descriptions.

A carload of shovels and spades that we are selling at \$5.00 per dozen.

We carry a complete stock of hardware and farm implements, besides plumbing material of every kind.

Write for Catalogue No. 47.

Chicago House Wrecking Co.,
 W. 35th and IRON STS., CHICAGO, ILL.

Albany, N. Y.

PARK DEPARTMENT MAKES GOOD SHOWING OF CHRYSANTHEMUMS. — LARGE PLANTING OF BULBS.—TWO NEW CUT FLOWER GROWING ESTABLISHMENTS.—VARIOUS NOTES.

The annual exhibition of chrysanthemums held under the auspices of the park department opened on Monday in the Lake House, Washington Park, and will continue daily until the season closes. The exhibit this year includes 600 plants, comprising a very complete collection of varieties and ranging from the golden yellow Earl of Arran to the largest white, Timothy Eaton. The exhibit will be kept fresh in appearance by frequent replenishment from the conservatories on Lake avenue.

W. W. Hannell, formerly employed as gardener for Sambrook & Son, Water-vliet, has started a place of his own at Colonie, a suburb. He has two new houses, 24x150 feet, erected by the Lord & Burnham Company. One house is stocked with Bride, Bridesmaid and Golden Gate roses; the second with carnations, including Lawson, Queen Louise, Marquis and Prosperity. Mr. Hannell has in all five acres of ground and will grow for the wholesale trade.

The park department has just completed the planting of 51,000 tulip and hyacinth bulbs in Washington and other smaller city parks. The Willett street garden, Washington Park, made up of forty-eight beds, required 45,000 bulbs. Supt. Egerton has adopted the plan of saving all the bulb stock for at least two years, replanting and buying each year only so much as is required to make up for the losses in handling.

Arthur Cowee, the gladiolus specialist of Berlin, has secured the services of a competent grower from Saratoga and will raise chrysanthemums, carnations, violets and roses for the market this winter. Mr. Cowee has just planted one house with American Beauty.

Whittle Brothers have secured the contract to supply the Hotel Ten Eyck with palms, potted plants and cut flowers for the dining rooms until March 1, 1903.

G. W. Goldner, representing Reed & Keller, New York, was in town early in the week. R. D.

MONTREAL, QUE.—S. S. Bain has had a chrysanthemum show at his greenhouses at Verdun and the street car people helped it along by carrying passengers the entire distance for one fare.

CYPRESS



Green House Material

Hot Bed Sash. Red Cedar Posts.

Write for circulars or estimate.

LOCKLAND LUMBER CO., LOCKLAND, OHIO.

DILLON'S GREENHOUSE MFG. CO. Bloomsburg, Pa.
 MANUFACTURERS OF HOT BED SASH, AIR DRIED GULF CYPRESS SASH BARS AND OTHER GREENHOUSE MATERIAL.
BUILDERS of DURABLE and PRACTICAL Greenhouses at a LOW COST.
 Our descriptive circular contains valuable information for every florist. Send for it.

Standard Flower Pots

The WHILLDIN POTTERY COMPANY,
 PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
 Travelling Representative, U. CUTLER RYERSON, 108 Third Ave., Newark, N. J.



STANDARD FLOWER POT!

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in., in crate,	\$4.88	120 7-in., in crate,	\$4.20
1500 2 1/2 " "	5.25	60 8 " "	3.00
1500 2 3/4 " "	6.00	HAND MADE.	
1000 3 " "	5.00	48 9-in., in crate,	\$3.60
800 3 1/2 " "	5.80	24 11 " "	4.80
500 4 " "	4.50	24 12 " "	4.80
320 5 " "	4.51	12 14 " "	4.80
144 6 " "	3.16	6 16 " "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward N. Y. Or AUGUST ROLKER & SONS, New York Agents, 31 Barclay Street, New York City.

KELLER BROS.

213-15-17-19-21-23 Pearl St., NORRISTOWN, PA.

Manufacturers of Standard Flower Pots, red in color, equal to the best on the market; are 16 miles from Philadelphia, best of railroad connections. We give special attention to mail orders and make special sizes to order in quantities. A postal will bring prices and discounts.

WRITE

A. F. KOHR, 1521-23 N. LEAVITT ST., CHICAGO, ILL., FOR PRICES OF

Standard Pots

which for strength and porosity combined are the best on the market.

RED POT

SAMPLE POT AND PRICE LIST ON APPLICATION.

C. C. POLLWORTH CO., MILWAUKEE, WIS.

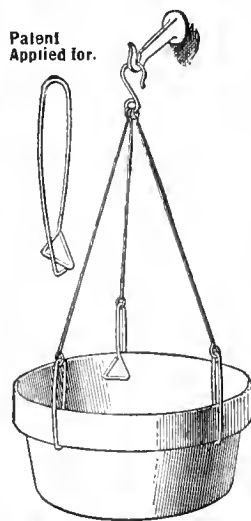
American Florists



Always do business, Week days and every day, Sundays and holidays, All over the country, At home and abroad.

Kramer's Pot Hangers

Patent Applied for.



THE neatest, simplest, most convenient and only practical device for converting ordinary flower pots into hanging baskets. They fit all standard made pots from 2 to 10 inches in diameter. The illustration shows how they are attached. Just the thing for hanging up ferns, begonias, etc. You can make room and money by their use. Try them.

Price with wire chain as shown in cut, \$1.00 per dozen by express. Sample doz. by mail, \$1.25.

I. N. KRAMER & SON, CEDAR RAPIDS, IOWA.



GEO. KELLER & SON,

MANUFACTURERS OF FLOWER POTS. Before buying write for prices. 361-363 Herndon Street, near Wrightwood Ave., CHICAGO, ILL.

THOSE RED POT

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS. BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'FY, HARRY BALSLEY, Rep. DETROIT, MICH., 490 Howard St.

Standard Flower... POT

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST, 28th and M Streets, WASHINGTON, D. C.

FLOWER POT

ALL KINDS. STANDARD POT A SPECIALTY

List and SAMPLES FREE. SWANN'S POTTERY MFG CO., P. O. Box 78. MINNEAPOLIS, MINN.

"Cluster of Roses Stationery"

for Florists, is the latest. Both plain and in colors. Samples free by DAN'L B. LONG, Publisher, BUFFALO, N. Y. Please mention the American Florist when writing.

**Greenhouse
Piping
Preservative**

SOMETHING NEW.

For finest effects, most durable finish and satisfactory results,

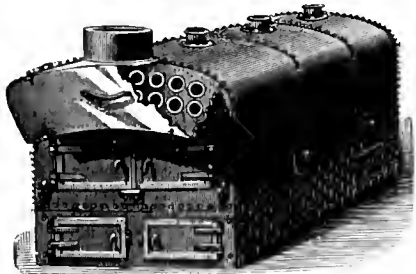
**LUCAS RADIATOR
BRONZING LIQUID PAINT**

has nothing to equal it on the market. It is an up-to-date specialty for preserving and beautifying greenhouse piping that is making a big hit wherever used.

Applied similar to other paints, the bronze being dusted on. Samples and prices free for the asking. Write to-day.

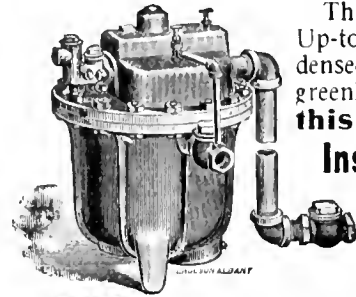
John Lucas & Co.
Paint, Varnish and Color Mfgs.
New York. Philadelphia. Chicago.

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IMPROVED
Greenhouse Boiler,
45 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

Steam Traps **SAVE COAL**



This is the Return Steam Trap used by the Up-to-date Greenhouse men to return the condensed water from the heating coils in their greenhouses. **Have been in use for this purpose over thirty years.**

Insures an Even Temperature.

Send for Red Catalogue.

Albany Steam Trap Co.

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MYERS & CO.

Established 1849.

**Greenhouse
Boilers.
Iron Bench
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**GREENHOUSE ARCHITECTS & BUILDERS
HEATING ENGINEERS.**

116 South 17th Street, Philadelphia, Pa.

Send for Catalogue and Latest Prices.

**Clear Gulf CYPRESS
GREENHOUSE MATERIAL.
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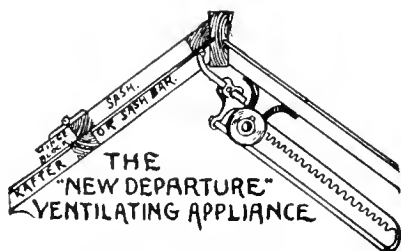
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THE AMERICAN FLORIST



Vol. XIX.

CHICAGO AND NEW YORK, NOVEMBER 15, 1902.

No. 754.

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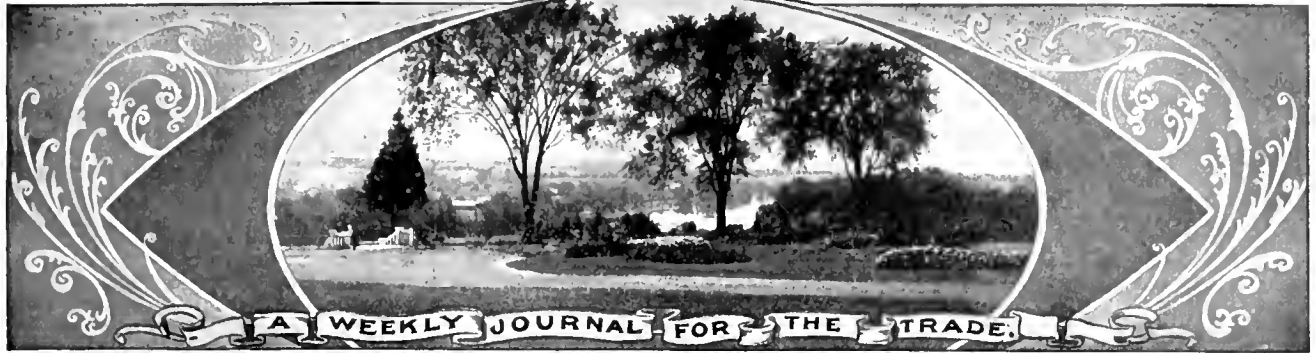
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Vol. XIX.

CHICAGO AND NEW YORK, NOVEMBER 15, 1902.

No. 754.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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AMERICAN FLORIST COMPANY,

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—JOHN BURTON, Philadelphia, Pa., president; J. W. C. DEAKE, Asheville, N. C., vice-president; WM. J. STEWART, 79 Milk Street, Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer.

OFFICERS-ELECT—JOHN BURTON, president; C. C. POLLWORTH, vice-president; secretary and treasurer as before. Nineteenth annual meeting at Milwaukee, Wis., August, 1903.

THE AMERICAN CARNATION SOCIETY.

Annual convention at Brooklyn, N. Y., February, 1903. ALBERT M. HERR, Lancaster, Pa., secretary.

AMERICAN ROSE SOCIETY.

Annual meeting at call of executive committee, LEONARD BARRON, 136 Liberty St., New York, secretary.

The Chrysanthemum.

Not in the joyous spring,
When every living thing
Is filled with joy and hope anew,
And all the earth takes on the hue
Of emerald—when e'en the trees
Burst into blossom, and the breeze
Is laden with their sweet perfume—
When crocuses and snowdrops bloom—
Not then you come,
Chrysanthemum.

Not in the summer time,
When honey-suckles climb
About the arbores—when the rose
Is queen, and all her buds disclose
Their beauties—when the world is fair
With loveliness, the former bare—
And ugly ground is carpeted
With flowers in profusion spread—
Not then you come,
Chrysanthemum.

But in the dull, drear day
Of autumn's sombre sway,
When coldly, cheerlessly, the rain
Beats mournfully against the pane,
And naked branches thwart the sky,
Wave drearily and make us sigh
For spring's soft days or summer's sun—
When winter's near, and life seems dun—
Ah, then you come,
Chrysanthemum.

And so we homage pay,
At your great shrine—o day:
Nor rose nor lily can displace
Your shabby beauty in our grace.
You are the grandest and the best;
Your coming is the welcomest;
Your reign is all your own, and now,
About your throne we humbly bow—
We're glad you've come,
Chrysanthemum!

—W. H. C., in the Kansas City Journal.

CHRYSANTHEMUM SOCIETY Of America.

FIRST ANNUAL
CONVENTION
CHICAGO, NOV.
12-13, 1902.

The first annual convention of the Chrysanthemum Society of America, held at the Art Institute, Chicago, November 12 and 13, has proved more successful than many of its best friends anticipated. It has proved beyond doubt that there is still vast interest in this flower, and that the national society may well look forward to a serviceable career. When the project was first launched at Asheville, N. C., last August, there were many who thought it was doomed to failure, but the assurances of support from the Horticultural Society of Chicago gave the movement an impetus which encouraged all its friends. These warm friends have never really wavered in their support of the society and they have always been willing to devote much time and work to the interests involved.

It is, therefore, highly gratifying to know that these persistent efforts are now in a fair way to be rewarded. It is true that some have fallen from the line in the many years of apparently futile work, but it should be remembered that even these are entitled to a share of any glory or triumph which may come to their successors. It was the pioneers in the organization's struggle for existence that made possible the large amount of good work it has accomplished in curtailing the dissemination of inferior varieties and the increase of synonyms. We trust the good work will now go on with the hearty co-operation and assistance of every chrysanthemum grower throughout the country.

With the largest and most representative gathering ever brought together of those interested in the society, it was soon after the appointed time, 10 a. m., that President Herrington called the convention to order. In the absence of Edwin Lonsdale, C. W. Johnson was appointed secretary pro tem. After waiting for a considerable time, however, it was found that the secretary of the convention committee had not put in an appearance and the meeting was adjourned until 2:30 p. m.

On re-assembling shortly after that time the meeting was called to order with President Herrington in the chair. The minutes of the previous meeting hav-

ing been read, President Herrington delivered his address. The reading of the report of the secretary was dispensed with as being familiar to most of those in attendance, but some suggestions of Secretary Lonsdale were presented. John N. May's report as treasurer was then read and referred to the executive committee.

Reports of committees having been called for, that on convention was presented, in the following excellent programme of essays, and adopted: "American Chrysanthemums in Europe," by C. Harman Payne, London, Eng.; "The Color Scheme in Chrysanthemum," by John F. Cowell, Buffalo, N. Y.; "Border Chrysanthemums," by Patrick O'Mara, New York; "Pompon Chrysanthemums," by John N. May, Summit, N. J.; "A Type and Its Treatment in the South," by F. P. Davis, Mobile, Ala.; "Foreign Chrysanthemums in America," by E. G. Hill, Richmond, Ind.; "Houses and Other Structures for Chrysanthemums," by Wm. Scott, Buffalo, N. Y.; "The Use of Chrysanthemums in Decorative Work," by Robt. Kift, Philadelphia, Pa.; "Hybridizing Chrysanthemums," by Elmer D. Smith, Adrian, Mich.; "Cut Bloom Chrysanthemums," by C. W. Johnson, Rockford, Ill.; "Chrysanthemum Exhibitions," by Grove P. Rawson, Elmira, N. Y.; "Chrysanthemums in Canada," by John H. Dunlop, Toronto, Ont.; "Specimen Plants," by T. D. Hatfield, Wellesley, Mass.; "History of the Chrysanthemum Society of America," by Edwin Lonsdale, Chestnut Hill, Philadelphia, Pa.; "The Future of the Chrysanthemum Society of America," by Wilhelm Miller, Ithaca, N. Y.; "Packing, Shipping and Storage of Cut Blooms," by E. E. Pieser, Chicago.

The committee in its report, owing to the large number and valuable character of the papers presented, and insufficient time in which to read them, recommended that only those of Mr. Payne and Professor Cowell be read, and that the entire list be printed and preserved in permanent form. After some discussion of this matter, during which Elmer D. Smith tendered the society his record of all new chrysanthemums introduced in America

since 1880, it was, on the motion of W. N. Rudd, seconded by John F. Cowell, resolved that the offer of Mr. Smith be accepted, and that the records be printed with the proceedings of the meeting, the papers presented thereat, and such other matters as the executive committee may consider of value to the members of the society.

This was followed by the reading of invitations to hold the next annual meeting at various points, one each from Dr. Hexamer, of the New York Institute, Niagara Falls and Buffalo. An invitation was also received from the World's Fair authorities at St. Louis for the meeting of 1904. After some discussion this matter was also referred to the executive committee.

The election of officers resulted as follows: A. Herrington, Madison, N. J., president; F. R. Pierson, Tarrytown-on-Hudson, N. Y., vice-president; John N. May, Summit, N. J., treasurer, and Fred. H. Lemon, Richmond, Ind., secretary.

Mr. Payne's paper, which appears in this issue, was then read and followed by an interesting discussion regarding the essayist's reference to the susceptibility of American varieties to mildew when grown in Europe. President Herrington attributed this infirmity to the difference in climate, a view shared by Messrs. Cowell and Hill. Referring to the size of the flowers, Elmer D. Smith said that exhibition varieties could be produced in this country with blooms equally as large as those of Europe, but that a different standard had to be maintained.

E. G. Hill advocated the trial at exhibitions of supplementary stems, well furnished with foliage, to support the weak-necked varieties with the large blooms which proved so attractive. The subject was freely discussed, Messrs. Cowell, Smith, Herrington, Wallace, Buettner and Johnson participating. As a result of the discussion it was resolved that the national society recommend exhibition managers to provide classes for such exhibits as a trial measure.

On the second day Prof. Cowell delivered an instructive address before a highly appreciative audience on "The Color Scheme in Chrysanthemum," illustrated with pigments extracted from flowers and plants, in solution. This valuable contribution to our knowledge of the colors in vegetable life and their causes will appear in a later issue and should be read by every reader interested in the growth and development of flowers and plants.

After the address some reference was made to the blue color sometimes seen in hydrangeas, and Emil Buettner stated that he had once tried Bride and Bridesmaid roses with iron, to produce blue flowers, without result.

During the executive session which followed, on the motion of Elmer D. Smith, seconded by E. G. Hill, an important resolution, governing the award of certificates to sports, was adopted, to go into effect on that date, as follows:

That all sports from existing varieties be submitted to three out of the five committees the average of the three scores to regulate title to certificate.

A committee was then appointed, consisting of W. N. Rudd and Elmer D. Smith, to draw up suitable acknowledgment of the gold medal and diploma donated by the French Society of Chrysanthemum Growers.

Reference was also made in appreciative terms to the expression of sympathy received from the National Chrysanthemum Society of England and the conven-

tion adjourned, subject to the call of the executive committee.

Thus far only two members of the executive committee have been appointed, viz., James S. Wilson, of Western Springs, Ill., and Wm. Duckham, of Madison, N. J., the other vacancy being left open for the present.

Treasurer's Report.

Treasurer John N. May submitted the following report:

Balance, August, 1901.....	\$520.32
Receipts.....	131.59
Disbursements.....	137.64

Balance November 10, 1902.....	\$514.27
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President Herrington's Address.

The Chrysanthemum Society of America was organized at Buffalo in 1889, with the following aims: "To increase the general interest in the cultivation of the chrysanthemum. To improve the standard of excellence in the flower. To improve the methods of cultivation and



C. HARMAN PAYNE.

to increase its use as a decorative flower. To properly supervise its nomenclature; to keep a register of seedlings in order to prevent duplication of names; and to stimulate the growing and introduction of improved seedlings in every legitimate way."

The constitution under which we organized provided for an annual meeting to be held each year in November, but this proviso has been respected in the breach rather than in the observance, till to-day, after the lapse of a dozen years, the hope some of us have long cherished has, thanks to the munificence of the Horticultural Society of Chicago, been consummated, and we are in convention assembled with a specific purpose, and that is to be more active, more aggressive in the pursuit of our object and aims.

Through the years that have elapsed since organization the Chrysanthemum Society of America has done a lot of quiet but effective work, so as a prelude it is eminently fitting to review the past at this initial November meeting, to give an account of our stewardship before we attempt to anticipate the future and lay out plans for greater activity in the years to come.

Looking back, down the vista of years that have passed, the year 1894 marks an important epoch in the existence of our society. The faithful few that from its inception to date have maintained its continuous existence met during the convention of the Society of American Florists, held that year at Atlantic City, and devised the plan of having committees appointed in the following cities: New York, Chicago, Philadelphia, Boston and Cincinnati, these committees to meet and pass judgment upon any new varieties submitted to them, to gauge their merit by a standard scale of essential requirements, and to endorse those found worthy. The best testimony that can be adduced to demonstrate the wisdom of this action is the fact that these committees have met uninterruptedly ever since during the chrysanthemum season, that their endorsement of new varieties has been and is still eagerly sought after, and their judgments when rendered have been well sustained. By our works we are known, and it may in full truth be asserted that to this particular act the Chrysanthemum Society of America owes its past span of life, its existence to-day; and though many here present may be unconscious of the fact through not having given thought to the matter, the benefits that have accrued to chrysanthemum growers resultant from the labors of these committees have been of a lasting character and a strong safeguard against imposition. Intentional imposition is not by this implied; but a salutary check has been in existence that has prevented the foisting upon the public of an excessive number of new varieties, many of doubtful use or merit.

During these years the results have been as follows in certificates awarded by the C. S. A.: 1894, 28; 1895, 34; 1896, 54; 1897, 25; 1898, 33; 1899, 23; 1900, 17; 1901, 17. In eight years 131 varieties have gone out endorsed by the Chrysanthemum Society of America. Many of them, you will say, "like leaves on a stream, have come and gone and left no trace behind." We admit it; no judgment is infallible, but you will at least concede these judgments were conscientiously rendered, and if they did not eliminate all the chaff, the good grain was made more easy of discovery.

A fair percentage of the varieties certificated each year we are cultivating yet. For example, from the 1894 list we have Jeannie Falconer, J. E. Lager, Philadelphia and Helen Bloodgood, and from 1895 Mrs. Perrin, William Simpson, Modesto and Western King.

So much for the past. It is a record that stands, needs no apologies, justifies our existence as an organization, amply sustains our belief in the need of such an organization, and on this basis we stand to-day, asking more support and a stronger, more united effort in the pursuit of a work that must be continuous and can never be considered complete, for the chrysanthemum is here to stay. It has outlasted the short spau of popularity certain pessimists in this country presumed to concede it, is permanently enthroned as "queen of autumn" in the hearts of thousands of flower lovers, and has a history and a literature surpassing by far that of any other flower. It behooves us, therefore, as sponsors for the chrysanthemum in America, not only to maintain unimpaired its historical continuity, its ancient and honorable lineage, but as a precious heritage from the past, to hand it down to the future with the pages of its historical record amplified by good work performed in our day and



A VIEW IN THE MAIN HALL AT THE OHICAGO EXHIBITION, NOVEMBER 11-15, 1902.

time, so that American contributions to chrysanthemum lore, American production of new varieties, may be on a par with those of the orient, whence the flower first originated; of Europe with its 115 years of continuous work in the chrysanthemum field, and of the antipodes, whence comparatively new workers are now sending us new varieties surpassing any heretofore obtained.

So much to show how broad the field, and as a national society we should heed well the fact and so broaden our sphere of labor as to command the support of all who love this flower.

The cited record of work accomplished is good as far as it has gone, but the lines have been constricted; and commercialism has dominated it all. The chrysanthemum as a cut flower for the market must, of course, be adjudged by the qualities that benefit it best for this special purpose; and what we have accomplished along these lines may be summed up in a few words. We have made amazing progress. The commercial aspect of the flower is not in danger of neglect; it must be maintained to insure its profitable cultivation.

But, coincident with the growth in popularity of the chrysanthemum, in fact, the most striking feature thereof, is the number of chrysanthemum exhibitions held each year in almost every state in the Union, no other flower being so universally exploited in this manner. Visit any of them, and if you have had an opportunity of visiting similar exhibitions in Europe, you have an admirable standard for comparison and should find much to reflect upon, and to our dis-

advantage. The same varieties that are in the cut flower market are dominant; in fact, almost wholly constitute our exhibitions. From an exhibition point of view, the paucity of variety and the similarity of type are most disappointing. Perhaps there is some connection between this and the lack of public patronage that many deplore who arrange otherwise attractive exhibitions. Is it not worth while trying to make the chrysanthemum exhibition more attractive, and might not popularity follow as a sequel? We can not tell until we make the effort, and we must begin by systematizing our work, or rather pursuing it along divergent lines centering on a special objective point. By giving more attention to the varied types of exhibition flowers, we might enhance amateur interest; we might create a little army of amateur growers who would cultivate for their own pleasure hundreds of lovely varieties, whose only shortcoming is they are not amenable to commercial cut flower requirements, because they cannot be packed in a box, shipped to market and arrive in presentable form.

If it were possible to estimate all that has been lost, all the varieties that have been rejected in the past through appraising them from the commercial standpoint, it might surprise us.

A century of continuously increasing interest, love, and enthusiasm that marks the history of the chrysanthemum in Europe has not been fostered and sustained by restriction of variety and type. The European cut flower markets have their limited few adapted to this special need, but the gardens and greenhouses of

thousands of amateur growers are replete with collections of hundreds of varieties, and their annual exhibitions are self-sustaining by large attendance. Continuous change prevails. The varieties of a decade ago are not there to-day.

It is this inherent infinite variety of the chrysanthemum that attracts with the everlasting anticipation of seeing something new. It is needless to enlarge upon the possibilities before us in this direction but we cannot continually ignore them.

Again, over a large area of our country the chrysanthemum as an open-air flower should have attention. Here, indeed, is a new and wide field wherein to labor, and effort intelligently directed along this special line would be most advantageous to many. It should have the consideration and support of our society.

Another matter of importance is how as a society we may be truly national, the central and recognized head of chrysanthemum work in America. This is an executive matter and the initiative must come from within our own ranks. "Tis not in mortals to command success, but we'll do more, deserve it." Our committee work now commands universal respect. Let us devise ways and means to the end that all our work may do so. It should not be necessary for the Chrysanthemum Society of America to organize exhibitions every year. They are abundantly provided for, but the Chrysanthemum Society of America should be officially identified with some important exhibition each year, and in that place let the record of the year's work be made up and prospective lines laid down for the labor of the next year.

Cannot some arrangement be devised whereby the many existing local societies, the sole aim of which is the giving of a chrysanthemum exhibition, may by the contribution of a certain sum from their treasury become affiliated with the national society, which in return should offer medals or other suitable awards at the exhibitions of those societies in affiliation and in other ways assist in systematizing all that is done in the chrysanthemum field? Some such plan exists with the National Chrysanthemum Society of England and works to the mutual interest of all.

Our society, too, should take its place with other national societies in the matter of keeping records and publishing matter pertaining to its flower. We may regard lightly what we have done to date, but it will be of inestimable value if it is available to the future historian who writes up the record of the present time. Some of our faithful officers have this matter tabulated and compiled, but it loses half its value while unavailable for public reference. Our co-workers in England want to know what we are doing, and in one of their horticultural publications recently expressed a wish that we would publish a catalogue of American chrysanthemums, as was done some years ago, and by them found very useful.

These are some of the matters now respectfully submitted for your consideration, and there are doubtless others that will occur and be suggested, for "in the multitude of counselors there is wisdom," and we want to have the best thoughts of the brightest minds concentrated upon the cause of the flower we love.

American Chrysanthemums in England.

BY C. HARMAN PAYNE, LONDON.

[Read before the Chrysanthemum Society of America at the Chicago convention, November 12-13, 1902.]

Having been invited to contribute a paper, to be read at the first convention of the Chrysanthemum Society of America, on a subject likely to interest American growers of this popular autumn flower, it seems that we may usefully consider some of the facts relating to the almost utter extinction of American varieties from our English exhibitions.

It is remarkable that while we had a large number of really meritorious American seedlings annually exhibited on the show boards of our leading exhibitions some few years ago, there remain to-day scarcely half a dozen that continue to find favor with our largest growers. There is, as most of us are aware, no question as to the ability of American seedling raisers to produce varieties of sterling merit. That fact has been proved over and over again, and is beyond dispute to those of us who have watched the progress of the chrysanthemum during the past twenty years.

To go back to the earliest attempts on the part of our American friends to supply European cultivators with novelties it is necessary to remind this meeting that one of the first chrysanthemum raisers in the states was Dr. Walcott, of Boston. John Thorpe, Mr. Waterer, of Philadelphia, and W. K. Harris were next heard of here as being engaged in the work and many of their varieties were imported into England about 1884-5.

I well remember somewhere about that date visiting my old friend, Norman

Davis, then of Camberwell, and seeing for the first time many of these American novelties which he was probably the first to introduce, and the interest that their appearance then caused. Up to that time the French growers had enjoyed the sole monopoly for some years of raising new seedling chrysanthemums, as they appear almost to have done during later years. Many of these early American varieties being very distinctive in form, soon become popular with our growers and figured at English exhibitions in goodly numbers.

A few of them can be readily recalled to memory, viz: Bicolor, Christmas Eve, Fimbriatum, Gloriosum, Gorgeous, Jessica, Moonlight, Mrs. C. W. Wheeler, Mrs. James R. Pitcher, Mrs. Vannaman, Mrs. Wm. Meneke, Sam Henshaw, White Dragon and so forth. Of course I am fully aware that some precise critics here at home will say that many of the first American novelties were really importations from Japan but that has little to do with our present purpose, inasmuch as we received them from American sources.

Interest having been excited in these new comers, our trade importers were not slow to appreciate the fact that to keep in the front they must each lay in a store of the American novelties year by year and so in due course other Americans were brought into the line of expansion. The novelties distributed by such growers as T. H. Spaulding, Peter Henderson & Son, Fewkes & Son, E. G. Hill, Nathan Smith & Son, Messrs. Hollis, Allen, Surman, Dorner, Pitcher & Manda, J. C. Vaughan, May, and for all I know, many more beside, were annually added to the ever increasing collections of our large trade growers and importers.

When one remembers the names of these men and the numerous seedlings that they raised and distributed, a large proportion receiving recognition of their merits by the awards of first-class certificates from our leading societies, it is difficult to understand the reason of their present non-existence as show flowers. Everyone of course knows that improvement has been made, but as time went on American seedlings did not remain stationary any more than did the seedlings of their rivals.

Let us recall a few names extending over that period and in order of their appearance: Puritan, Beauty of Castlewood, Coronet, Miss Anna Hartshorne, Florence Percy, Lizzie Cartledge, Elmer D. Smith, Eda Prass, Col. W. B. Smith, C. B. Whitnall, Mrs. E. D. Adams, Julius Roehrs, Geo. W. Childs, W. G. Newitt, Golden Wedding, Good Gracious, Niveus, Mrs. E. G. Hill, Eugene Dailedouze, Mutual Friend, Mrs. Henry Robinson, Miss Georgiana Pitcher, The Egyptian, Modesto, Western King and Simplicity.

Now, to be properly understood, I do not mean to say that these and similar sorts are nowhere to be seen in England, but I do say that these and many other equally fine varieties have been entirely discarded by the most prominent of our exhibitors in the leading shows. And further that for several years past little or nothing of American origin has been sent over here to compete with the French and more recently the Australian seedling growers. The consequence is that the English thirst for novelties has to be assuaged by other means, and that instead of there being a steady flow of novelties from the other side of the Atlantic to occupy a portion of the space vacated by varieties that are pushed aside for various reasons, nothing new



FIRST PREMIUM EXHIBIT OF 100 CHRYSANTHEMUMS AT CHICAGO.

(Mrs. Jerome Jones, grown by H. W. Buckbee, Rockford, Ill.)



HARRY O. SELFIDGE.



WM. H. CHADWICK.



E. G. UIHLEIN.



A. HERRINGTON.



EDWIN LONSDALE



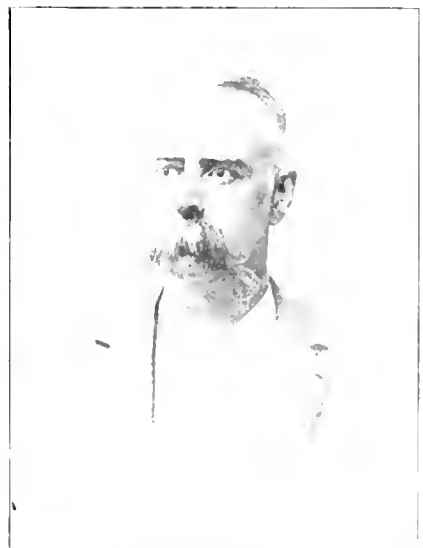
JOHN N. MAY



EMIL BUETTNER.



W. N. RUDD



J. C. WELLS.

ACTIVE WORKERS FOR THE CHRYSANTHEMUM SOCIETY OF AMERICA AND HORTICULTURAL SOCIETY OF CHICAGO.

or attractive has come before our notice for a long time past.

The chief places where public opinion on such matters is formed is undoubtedly at the trade displays and at the floral committee meetings where novelties are staged by growers and importers. So keen is the competition for supremacy that unless a new variety obtains a certificate or gives great promise it is hardly worth anyone's while to grow a new variety a second year, the number of novelties being so large.

There is, however, some consolation, but it is one that does not appeal to a raiser's pocket. At many private establishments and in the interesting collections that are gratuitously provided by the London County Council in the public parks many varieties, American as well as others, are included and are grown year after year. I think in an article on this subject which I wrote for the AMERICAN FLORIST some time since special reference was made to this fact. But the average chrysanthemum grower for exhibition in England hardly ever pays a visit to such places, which are intended for the pleasure of the inhabitants in the district where these parks are situated. Consequently the authorities, not having to appeal to critical trade in such matters, often keep in their collections many

notice, as I did last year, blooms of many American varieties that once occupied a much loftier position. Many of them were in their turn exhibition blooms; to-day they are rejected as such. Yet although not grown in such fine form as they were when in the hands of our expert cultivators they may live on for years giving pleasure to many, whose only opportunity of seeing such flowers at all, is a quiet stroll through the greenhouse of a London park on a Saturday or Sunday afternoon in mid-October or early November.

Survivors of these American introductions are as follows: Mrs. E. G. Hill, an early useful variety for the back row of a group of pot plants; W. H. Lincoln, Delaware, the anemone; Wm. Tricker, a capital pink variety when grown for decorative purposes; Gloriosum, Modesto, Col. W. B. Smith, Niveus, Western King, The Egyptian, Simplicity, G. W. Childs, always bright and effective but rather small. There may be a few others but these are all that appear in my notes of last year's visits to the London parks.

While these remain the originators have some satisfaction in knowing that their efforts have not been entirely obliterated. But mere honors will scarcely console a man who undertakes the raising of any kind of plant for a livelihood.

Only to-day I have been inspecting the collection of a well known introducer of new chrysanthemums, a man with little or no sentiment in relation to the origin of the new chrysanthemums he has to sell. Upon finishing the work I expressed surprise that new American seedlings were practically non-existent in his collection and had been for some years. His remarks may be instructive and perhaps of service to American growers and are briefly as follows:

"Taken as a whole the American seedlings are, as regards the blooms, quite as fine in color as any others. The foliage is good but very subject to mildew, at least five out of every six suffering from this disadvantage. For quality in respect to seedbearing they are of a high order of merit, George W. Childs having been the parent here of many of our best dark-colored kinds. Most of the plants have the disadvantage of being too tall when grown in our style for exhibition blooms and, generally speaking, they are much later in blooming than the Continental varieties, an immense disadvantage when connoisseurs are eagerly on the lookout early in the season for novelties for the following season.

"Again, many are rather coarse, and I remember this was the fault in the case of some of the first we ever had. They do not lend themselves to stopping for refinement and the difference in bud selection is a matter of paramount importance. If attempts are made to get them early by taking early buds the flowers come rough, and that is one of the greatest bars to successful exhibiting in this country."

Another factor in the case is the question of transport. My informant tells me that in getting young plants from the States in past years it was never possible to get them over soon enough in the year to flower them well the first season after arrival, and that means that they were often knocked out of the running for up to date exhibitors.

How far these opinions are shared by the general body of our trade importers I do not know but it is not the first time similar complaints have been made to me when going the rounds of our trade displays. If anything contained in this paper should tend to a revival of commerce in chrysanthemums with this country and to American chrysanthem-



LAGER & HURRELL'S DISPLAY OF ORCHIDS AT THE CHICAGO SHOW.

old kinds of ordinary merit that are only fit for general decorative display. To the exhibitor for prizes, however, the early possession of the finest novelties means success or failure and he will willingly pay the price for any new addition likely to secure him the fullest number of points. For that means a considerable amount of prize money in his pocket or an array of silver cups for his sideboard.

Whatever may be said to the contrary, growing prize chrysanthemums in England is mainly a matter of profit and not honor. And the proof of this is easily found in the fact that where substantial prizes are not offered there will only be found growers of average ability. And it is also noteworthy that whatever varieties are included in the winning stands of our cleverest exhibitors are eagerly sought after by the numerous small amateurs who hope to follow in the greater one's steps. Hence the sale of some peculiarly striking novelty will often run into thousands the first year it is shown.

Going back to the subject of local display at the London parks, it is curious to



NEPHROLEPIS PIERSON AS STAGED AT THE CHICAGO FLOWER SHOW.



ROSE EXHIBIT OF BENTHEY & COMPANY AT THE CHICAGO FLOWER SHOW.

mums once again occupying something like their old position, both I and many other lovers of the autumn queen will not fail to do them justice and American growers will once again share in the honor of producing varieties that will help materially to increase their fame and pecuniary advantage. To this end the present paper has been compiled and the time devoted to its compilation will be considered well spent if such a result can be brought about.

THE EXHIBITIONS.

Chicago.

Success is, at best, no more than a relative term, but certainly the twelfth annual exhibition of the Horticultural Society of Chicago, combined with the first exhibition under the auspices of the Chrysanthemum Society of America, was relatively a better success in many of its details than any of the previous Chicago flower shows. Staged in the Art Institute, that notable center of aesthetic life proved in some respects admirably adapted to the needs of the occasion, but it is a regrettable fact that Chicago has no public hall in all respects adapted to the requirements of a successful flower show. The alliance with the Art Institute accrued greatly to the financial advantage of the Horticultural Society. The attendance was good, but the evenings saw proportionately fewer admissions, probably due to the location being in a building not ordinarily frequented by the public after nightfall.

The great Hall of Statuary was found all but inadequate to meet the needs of the exhibition. Certainly the general effect suffered from the simplicity of the rectangular chamber, the bare whiteness of the newly completed walls of which was relieved only by the liberal use of Alabama

smilax. While it may be said that there was room enough, yet a very moderate attendance sufficed to give the hall a well-filled appearance, and in the busy hours it was badly crowded. Twice as much space might have been utilized to the enhancement of the general effect of the show and the increased comfort of the patrons. The cut blooms were mostly placed in the long gallery and the space for the visitors, as on the main floor, was very meager.

Chrysanthemum plants were not largely represented, nor by so large specimens as on some previous occasions, but the plants were good, and more of them would have proved a puzzle to the superintendent. The principal exhibitors in this department were J. J. Mitchell, M. A. Ryerson, Vaughan's Seed Store and H. W. Buckbee. In decorative plants there were the splendid groups of Mrs. Geo. M. Pullman, Harry G. Selfridge, E. G. Uihlein and others. In this department the usual exhibit of the Geo. Wittbold Company was missed, and in the plant line Mount Greenwood Cemetery was unrepresented. Klehm's Nursery showed a nice group of autumn foliage.

One feature in which this week's exhibition far eclipsed its predecessors was in the matter of orchid displays. There were four very fine groups, that of A. Herrington, however, being composed entirely of cut blooms. Lager & Hurrell showed one of the choicest collections ever seen in the west. E. G. Uihlein was represented by his usual fine display, but not this time frozen in cakes of ice, and Harry G. Selfridge was a new contributor to this department with a collection which was a surprise to many of his friends.

There is not a dissenting voice when it is said that in respect to cut chrysanthemum blooms no exhibition held west of the Alleghenies ever compared with the

present in the quality of the chrysanthemum blooms, and few have been the exhibitions where the display has been so extensive. In a number of classes, particularly those for six blooms of one variety, there were as many as a dozen entries, in some classes fifteen. Nathan Smith & Son, the E. G. Hill Co., and H. W. Buckbee were the principal exhibitors, but blooms of superior finish were shown in many classes by the Poehlmann Bros. Co., Weiland & Risch, Mrs. E. T. Grave, Anton Then, Fritz Bahr and others. The classes for collections of named varieties showed many novelties of superior merit, among the best being Yellow Eaton, Hero of Mafeking, A. B. Richardson, Mrs. F. J. Taggart, Convention Hall, Mlle. Marie Liger and Ville de Bordeaux.

The vases of 100 blooms arranged for effect were a revelation. The first prize was awarded to a vase of Mrs. Jerome Jones, exhibited by H. W. Buckbee, of Rockford. The blooms were the consummation of C. W. Johnson's highest art, and the arrangement showed the flowers and foliage to wonderful advantage. Entered against this were two vases of Timothy Eaton, one from Mrs. E. T. Grave, of Richmond, Ind., consisting of blooms which many experienced cut flower handlers declared to be the best ever seen in this city. They were arranged to give a massive effect and made little display of green. The judges placed them second to the Buckbee exhibit but it is safe to say that they attracted more attention than any other single exhibit in the show. The third vase was also of Timothy Eaton, rather larger and purer in color than the second prize display, but arranged with asparagus and the widest of white satin ribbon. These flowers were grown by Weiland & Risch, who took the first prize on Eaton in the class for white, but were exhibited by the Fleischman Floral Company.

On the second day the roses made their debut, and here, too, the display eclipsed all previous records. They were given the smaller room opening out of the main exhibition hall, and it was admirable for the purpose. Probably the main interest centered on the Beauties, of which there were five entries in the class for fifty blooms. Better blooms are rarely seen, and it was a close decision on the four leaders, for size of buds, color, stem and foliage were not far apart on any of the entries. The decision fell to Benthey & Company, the Poehlmann Brothers Co. and Peter Reinberg in the order named, and Benthey & Company were also first in the class for half as many blooms. The competition in the classes for Bride and Bridesmaid was not so keen, for here the Benthey exhibits left a question only as to the second premiums. While Benthey's Brides were excellent in every particular, their fifty Bridesmaids were the finest ever exhibited before the Horticultural Society of Chicago. It would be difficult to improve on this stock at any season of the year.

Wietor Bros. were easily first in the class for fifty Ivory, this being the special premium offered by the American Rose Co. The vases of Liberty, Chatenay, Kaiserin, Sunrise, La France and Perle

their best stock. Nothing like it has ever before been seen in Chicago, where the importance of the carnation display has been growing year by year. There was a big showing of new sorts, full of interest to the grower and a revelation to the visitors.

Among the new things in the show, much attention was bestowed upon *Nephrolepis Pieroni*, from Tarrytown, N. Y. It is the first time this plant has been exhibited in Chicago, and its reception here was as favorable as that which has been accorded it wherever shown. Vaughan's *Acalypha bicolor compacta* was also scrutinized with interest by those in the trade. The new rose, Franz Deegan, was awarded the gold medal offered by the American Rose Society. It is to be introduced to the trade next season, the stock being in the hands of three or four prominent rose growers east and west. The Dale Estate, off Brampton, Ont., displayed a fine vase of the new rose Canadian Queen, which was the subject of much comment. J. A. Peterson, of Cincinnati, exhibited only one plant of *Begonia Gloire de Lorraine*, but it was unusually fine.

The judges were J. F. Cowell and Emil Buettner; their full list of awards follows:

CHRYSANTHEMUM PLANTS.

Specimen plant, white, first, J. J. Mitchell, Geo. Woodward, gardener, on Mutual Friend; second, H. W. Buckbee, Rockford.

Specimen plant, yellow, first, J. J. Mitchell, on W. H. Lincoln; second, H. W. Buckbee.

Specimen plant, pink, first, J. J. Mitchell, on Louis Boelmer; second, Vaughan's Seed Store.

Specimen plant "any other color," first, Martin A. Ryerson, John Reardon, gardener, on The Bard; second, H. W. Buckbee.

Best plant of above, first, J. J. Mitchell, on Mutual Friend.

Three standards, thirty-inch stems, first, H. W. Buckbee; second, Vaughan's Seed Store.

Five standards, not less than twelve-inch stems, first, Vaughan's Seed Store, on Chito, Louis Boelmer, The Bard, Georgiana Pitcher and Beauty of Truro; second, H. W. Buckbee.

Best standard, first, H. W. Buckbee; second, Vaughan's Seed Store.

Five specimen plants, first, Vaughan's Seed Store on The Bard, Marion Newell, May Forster and Golden Chain, the latter said to have 10,000 flowers; second, J. J. Mitchell.

Five specimen plants anemone varieties, first, Vaughan's Seed Store, on Surprise, Garza and Descartes; second, Anton Then.

Five specimen plants, single varieties, first, Vaughan's Seed Store on Mispah and Yellow Daisy.

Ten specimen plants pompon varieties, first, Vaughan's Seed Store.

Twenty-five plants grown to single stem, first, Vaughan's Seed Store on Mrs. Perrin.

Ten plants grown to single stem, first, Vaughan's Seed Store.

MISCELLANEOUS PLANTS.

Grafted plant, first, Vaughan's Seed Store on chrysanthemum bearing twenty-eight sorts; second, Robert Mueller.

Three standard geraniums, first, M. A. Ryerson; second, J. J. Mitchell.

Fifteen geraniums, first, M. A. Ryerson, on Heteranthe; second, Anton Then. Collection of orchids, first, H. G. Selfridge.

Collection of ferns, first, Vaughan's



CHRYSANTHEMUM PLANTS AT THE PHILADELPHIA EXHIBITION.

were all of highest quality. It was a close competition, particularly on Liberty, in which Bassett & Washburn and Peter Reinberg each staged beautiful vases of blooms. Details of the awards will be found under their proper heading.

Although the showings of cut blooms of both chrysanthemums and roses were noteworthy for extent and quality, in neither respect were they more commendable than the display of carnations on Thursday, which was never excelled anywhere. The blooms were staged on the balcony, which was utterly inadequate to the purpose, the popular interest in the flower serving to make the display the center of attention in the exhibition. Competition was close in all the classes and the judging occupied much time. Rivalry was keen among the growers. The J. D. Thompson Carnation Company staged a vase of *Enchantress* which carried everything before it and this firm was one of the principal winners. Bassett & Washburn were leading exhibitors, as of old, and the Chicago Carnation Company, Peter Reinberg, Wietor Bros., Mt. Greenwood Cemetery Association, Dorner, Buckbee, Witterstaetter, and many other growers were represented by



A. HERRINGTON'S DISPLAY OF ORCHID CUT BLOOMS AT CHICAGO.



SPECIMEN PLANTS AT THE BOSTON EXHIBITION, NOVEMBER 6-9, 1902.

Seed Store, including Boston fern, *Adiantum Farleyense* and *Cibotium Schiedeii*.

Five foliage plants, first, E. G. Uihlein, H. Skoldlager, gardener, second, Vaughan's Seed Store.

Palm, Guardian Angel Orphan Asylum, on kentia; second, E. G. Uihlein.

Croton, first, J. J. Mitchell; second, J. J. Mitchell.

Dracena, first, E. G. Uihlein; second, J. J. Mitchell.

Best other decorative plant, first, E. G. Uihlein on *Anthurium Veitchii*.

Boston fern, first, Vaughan's Seed Store.

Adiantum Farleyense, first, Vaughan's Seed Store.

Best other fern, first, H. G. Selfridge on *Nephrolepis Philippensis*; second, Vaughan's Seed Store.

Six araucarias, first, Vaughan's Seed Store.

Five *Begonia Gloire de Lorraine*, first, E. G. Uihlein; second, Vaughan's Seed Store.

Flowering plant, first, E. G. Uihlein; second, Bertermann Bros., Indianapolis.

Groups of stove and decorative plants, first, Mrs. George M. Pullman, Frank Howard, gardener; second, E. G. Uihlein; third, J. J. Mitchell.

Display of flowering plants, first, Anton Then; second, Vaughan's Seed Store; third, H. G. Selfridge.

CHRYSANTHEMUM CUT BLOOMS.

Twenty-five white, first, Weiland & Risch, Chicago, on Timothy Eaton; second, Mrs. E. T. Grave.

Twenty-five light yellow, first, H. W. Buckbee, Rockford, Ill., on Yellow Mrs. Jerome Jones; second, Mrs. A. M. Schafer, Chicago.

Twenty-five deep yellow, first, E. G. Hill Co., Richmond, Ind., on Col. Appleton; second, W. J. & M. S. Vesey, Fort Wayne, Ind.

Twenty-five light pink, first, Nathan Smith & Son, Adrian, Mich., on Iora; second, E. G. Hill Co.

Twenty-five deep pink, first, Nathan Smith & Son, on A. J. Balfour; second, E. G. Hill Co.

Twenty-five red, first, Nathan Smith & Son, on Intensity; second, Anton Then, Chicago.

Twenty-five bronze, first, Nathan Smith & Son, on Rustique; second, E. G. Hill Co.

Twenty-five "any other color," first, Nathan Smith & Son, on T. Carrington; second, H. W. Buckbee.

Six white, first, Chicago Carnation Co., Joliet, Ill., on Eaton; second, W. J. & M. S. Vesey.

Six light yellow, first, Chicago Carnation Co., on Bonnaffon; second, H. W. Buckbee.

Six deep yellow, first, Fritz Bahr, Highland Park, Ill., on Appleton; second, W. J. & M. S. Vesey.

Six light pink, first, E. G. Hill Co., on Bentley; second, Vaughan's Seed Store, Chicago.

Six deep pink, first, Nathan Smith & Son, on Vivian-Morel; second, E. G. Hill Co.

Six red, first, E. G. Hill Co., on Intensity; second, Chicago Carnation Co.

Six bronze, first, Nathan Smith & Son, on Kate Broomhead; second, E. G. Hill Co.

Six "any other color," first, E. G. Hill Co., on Ville de Bordeaux; second, Anton Then.

Twelve blooms, three varieties, white, first, Nathan Smith & Son.

Twelve blooms, three varieties, yellow, first, Nathan Smith & Son.

Twelve blooms, twelve varieties, first, Nathan Smith & Son; second, E. G. Hill Co.

Forty varieties, one bloom each, first, E. G. Hill Co.; second, Nathan Smith & Son; third, H. W. Buckbee.

Ten blooms, one variety, C. S. A. silver cup, first, Poehlmann Bros. Co., Chicago, on Appleton.

One hundred blooms, one variety, arranged for effect, first, H. W. Buckbee, on Mrs. Jerome Jones; second, Mrs. E. T. Grave on Eaton.

One hundred blooms not more than four inches in diameter, first, Chicago Carnation Co., with Bonnaffon.

Twenty-five sprays pompons, first, Nathan Smith & Son; second, Vaughan's Seed Store.

Twenty-five anemone pompons, first, Nathan Smith & Son.

Twenty-five anemone varieties, first, Vaughan's Seed Store; second, Nathan Smith & Son.

Thirty-six blooms, not less than six varieties of French origin, first, E. G. Hill Co., winning French Society's gold medal.

CUT FLOWERS, ORCHIDS

Best collection of cut blooms of orchids, first, A. Herrington, Madison, N. J., on collection embracing cattleyas, cypripediums, vandias, dendrobiums and oncidiums.

ROSES

Twenty-five blooms Beauties, first, Bentley & Co.; second, Poehlmann Bros. Co.

Forty Liberty, first, Weiland & Risch; second, Wietor Bros.

Forty Golden Gate, first, Pochlmann Bros. Co.

Forty Kaiserin, first, Wietor Bros.

Forty Bride, first, Pochlmann Bros. Co.; second, Benthey & Co.

Forty Bridesmaid, first, Pochlmann Bros. Co.; second, Benthey & Co.

Forty Meteor, first, Pochlmann Bros. Co.; second, Wietor Bros.

Forty Perle, first, Pochlmann Bros. Co.; second, Bassett & Washburn.

Twenty-five "any other variety," first, Peter Reinberg, with Chateaufort; second, Bassett & Washburn, with Carnot.

Fifty Beauties, first, Benthey & Co.; second, Pochlmann Bros. Co.; third, Peter Reinberg.

Seventy-five Liberty, first Peter Reinberg; second, Bassett & Washburn.

One hundred Golden Gate, first, Peter Reinberg; second, Bassett & Washburn. One hundred Kaiserin, first, Bassett & Washburn.

One hundred Bride, first, Benthey & Co.; second, Peter Reinberg.

One hundred Bridesmaid, first, Benthey & Co.; second, Peter Reinberg.

New rose not yet disseminated, American Rose Society's gold medal to Franz Deegan, exhibited by South Park Floral Co. and E. G. Asmus.

Fifty Ivory, first, \$100, Wietor Bros.; second, \$50, South Park Floral Co.; third, M. Winandy.

Best vase of roses in the show, special prize to Benthey & Co., for Bridesmaid.

CARNATIONS.

In carnations all the classes for standard varieties were for exhibits of fifty blooms.

Flora Hill, first, Sinner Bros.; second, Wietor Bros.

White Cloud, first, Bassett & Washburn; second, Sinner Bros.

Norway, first, Bassett & Washburn; second, Chicago Carnation Co.

Queen Louise, first, Guardian Angel Orphan Asylum; second, M. Winandy.

"Any other white," first, J. D. Thompson Carnation Co., on Governor Wolcott; second, W. W. Coles.

America, first, Bassett & Washburn; second, Wietor Bros.

Red Bradt, first, Bassett & Washburn; second, Anton Then.

G. H. Crane, first, Bassett & Washburn; second, Mt. Greenwood Cemetery Association.

"Any other red," first, Peter Reinberg, with Estelle; second, J. D. Thompson Carnation Co., with Apollo.

Gen. Maceo, first, Bassett & Washburn; second, Joseph Labo.

Governor Roosevelt, first, Mt. Greenwood Cemetery Association; second, J. D. Thompson Carnation Co.

"Any other crimson," first, J. D. Thompson Carnation Co., with Harry Fenn.

Marquis, first, Mt. Greenwood Cemetery Association; second, Bassett & Washburn.

Mrs. Lawson, first, Bassett & Washburn; second, J. D. Thompson Carnation Co.

Genevieve Lord, first, Peter Reinberg. Ethel Crocker, first, W. W. Coles.

Frances Joost, first, Peter Reinberg; second, Anton Then.

Morning Glory, first, Bassett & Washburn; second, Wietor Bros.

"Any other deep pink," first, Sinner Bros., on The Sport; second, Wietor Bros.

"Any other light pink," first, Chicago Carnation Co., on Mrs. Higinbotham; second, Guardian Angel Orphan Asylum.

Mrs. Bradt, first, Bassett & Washburn; second, Anton Then.

Prosperity, first, J. D. Thompson Carnation Co.; second, Bassett & Washburn.

"Any other white striped," first, F. Dorner & Sons Co., on Stella; second, W. J. & M. S. Vesey, on Gaiety.

Gold Nugget, first, Bassett & Washburn.

"Any other yellow," first, J. D. Thompson Carnation Co., on Golden Beauty; second, F. Dorner & Sons Co., on Dorothy Whitney.

The classes for introductions of 1902 called for only twenty-five flowers to the vase.

White, first, J. D. Thompson Carnation

Co., for Governor Wolcott; second, H. W. Buckbee.

Deep pink, first, J. D. Thompson Carnation Co., on Mrs. E. A. Nelson; second, W. J. & M. S. Vesey, also on Nelson.

Light pink, first, R. Witterstaetter, on Enquirer; second, Bassett & Washburn, on Gloriana.

Red, first, J. D. Thompson Carnation Co., on Apollo; second, F. Dorner & Sons Co., on Apollo.

"Any other color," first, F. Dorner & Sons Co., on Stella; second, Bassett & Washburn, on Gaiety.

One hundred blooms white, first, J. D. Thompson Carnation Co., on Wolcott; second, R. Witterstaetter, on Albatross.

One hundred blooms light pink, first, J. D. Thompson Carnation Co., on Enchantress; second, Mt. Greenwood Cemetery Association, on seedling.

One hundred blooms dark pink, first, Bassett & Washburn, on Mrs. Lawson; second, Mrs. E. T. Grave, on President McKinley.

One hundred blooms crimson, first, Chicago Carnation Co., on Harlowarden; second, J. D. Thompson Carnation Co., on Gov. Roosevelt.

One hundred blooms red, first, J. D. Thompson Carnation Co., on Apollo; second, Bassett & Washburn, on Crane.

Best vase of 100 blooms among the above, first, J. D. Thompson Carnation Co., on Enchantress; second, Chicago Carnation Co., on Harlowarden.

Best vase in show, first, J. D. Thompson Carnation Co., on Enchantress.

CHRYSANTHEMUM NOVELTIES.

Six white, Nathan Smith & Son, with Convention Hall.

Six yellow, not darker than Bonnaffon, E. G. Hill Co., with Yellow Eaton, and Vaughan's Seed Store, with Golden Chadwick, equal.

Six yellow, darker than Bonnaffon, Nathan Smith & Son, with H. W. Buckbee. Awarded S. A. F. bronze medal.

Six pink, lighter than Viviand-Morel, E. G. Hill Co., with Columbia.

Six pink not lighter than Viviand-Morel, E. G. Hill Co., with A. B. Richardson. Awarded S. A. F. silver medal.

Six "any other color," Nathan Smith & Son, with Mrs. J. J. Mitchell.

SEEDLING CARNATIONS.

Twenty white, F. Dorner & Sons Co., with No. 123 (00).

Twenty red, E. T. Grave, with Elsie Martin.

Twenty pink, not lighter than Wm. Scott, J. D. Thompson, with Nelson Fisher.

Twenty pink, lighter than Wm. Scott, F. Dorner & Sons Co., with Fiance.

Best in foregoing classes, F. Dorner & Sons Co., with Fiance. Silver cup.

VIOLETS.

Thirty-six bunches, first, Robert Klagge, Mt. Clemens, Mich.; second, Eli Cross, Grand Rapids, Mich.

FLORAL ARRANGEMENTS.

Basket chrysanthemums, first, John Mangel; second, T. D. Mosconesotes.

Basket orchids, first, T. D. Mosconesotes; second, E. G. Uhllein.

Bridal bouquet, first, A. Lange; second, T. D. Mosconesotes.

Bridesmaid's bouquet, first, A. Lange; second, T. D. Mosconesotes.

VISITORS.

Among the trade visitors during the week were:

W. S. Fosgate, Santa Clara, Cal.; J. R. Horn, San Francisco; Miss Bessie Hor-
top and Miss D. E. Gross, Denver; Chas. E. Gullett, Lincoln, Ill.; Henry Gaethje and Emil Bochans, Rock Island; H. W.



HELICONIA SANDERI.

Buckbee, C. H. Woolsey and C. W. Johnson, Rockford; John Willius and wife Danville; Thos. Hewitt and daughter, Monmouth; G. Schaffer, Lake Forest; Jos. B. Feldmann and Erle W. Metz, Peoria; Geo. A. Kuhl and wife, Pekin; J. A. Kenyon and Jacob Rohr, Naperville; Wm. Swinbank and Roy M. Orton, Sycamore; F. A. Belt, Sterling; J. R. Holland, Pontiac; J. M. Smely, Aurora; J. F. Ammann, Edwardsville; Geo. Souster, Elgin; D. Hill, Dunlee; A. C. Brown and A. C. Canfield, Springfield; A. Peterson, Paxton; J. T. Anthony, Geneva, Ills.; H. W. Riemann and E. J. Bertermann, Indianapolis; E. G. Hill, Henry Shephard, E. T. Grave, Richmond; Mrs. M. S. Vesey and W. J. Vesey, Fort Wayne; W. W. Coles, Kokomo, Ind.; Fred. Dorner and Fred. Dorner, Jr., La Fayette; Irving Gingrich, South Bend; J. D. Carmody, Evansville; Meyer Heller, New Castle, Ind.; J. O. Kemble, Marshalltown, Ia.; P. L. Larson, Ft. Dodge, Mrs. M. E. Eaton, Lyons, Ia.; J. C. Rennison, Sioux City, Ia.; Miss B. Meinhardt, Fred. A. Meinhardt and wife, Otto G. Koenig, H. G. Berning and wife, R. T. Windt, John Steidle, C. A. Kuhn, J. J. Beneke, Frank Ellis, F. C. Weber, Theo. D. Miller, C. C. Sanders, G. J. Foster and James Gurney, St. Louis; A. Jablonsky, Wellston, Mo.; A. Helfrich, Burlington, Mo.; Frank W. Robinson, Kansas City; Geo. Allard, Lawton, Mich.; Elmer Smith and wife, Adrian; Geo. A. Rackham, Walter Taepke, Robt. Flowerday, Theo. Mielch, H. Schroeter, L. Beimb, Thos. F. Browne, Fred. Breitmeyer and Frank Beard, Detroit; Mrs. L. H. Stafford, Marquette; A. E. Crooks, Harry Gentle and W. J. Scott, Benton Harbor; A. H. Bunde and wife and F. Gustafson, St. Paul; Joe. Milton and Miss Whittet, Minneapolis; Miss Pauline Windmiller, Mankato; H. Weber, Oakland, Md.; A. Herrington, Madison, N. J.; John R. Fotheringham, Tarrytown; John F. Cowell, Buffalo; J. A. Peterson, W. F. Lautenschlager and R. Witterstaetter, Cincinnati; C. W. McConahy, Van Wert, O.; J. J. Hellenthal and H. H. Hellenthal, Columbus, O.; Ed. Holland, J. S. Schraman, Chas. A. Schmidt and J. M. Gasser and wife, Cleveland; S. S. Skidelski, Philadelphia; C. E. Schaffer, La Crosse, Wis.; C. C. Pollworth, Wm. Dilger, W. A. Kennedy, Alex. Klokner, Jos. Chacons, Miss Josephine Seikert and H. V. Hunkel, Milwaukee; Otto Speidel and Siegfried Dahlgren, Oconomowoc; C. Gebhardt, Lake Geneva; H. Levenhagan, Manitowoc, Wis.; T. S. Joy, Nashville, Tenn.

Boston.

The annual chrysanthemum show of the Massachusetts Horticultural Society was in most respects fully up to its predecessors in merit and greatly superior to that of last year in arrangement. The large hall was given over to the groups of trained plants which were as usual unrivalled examples of gilt-edge cultivation which, so far as can be learned from the news columns of the trade journals, might as well, outside of Boston, be classed among the lost arts. In the groups of eight plants, unlimited as to size of pots, J. S. Bailey, A. J. Lowell, gardener; Mrs. B. P. Cheney, John Barr, gardener, and E. S. Converse, D. F. Roy, gardener, were the competitors. Mr. Lowell scored first and Mr. Barr second. The winning group comprised Pink Ivory, Black Hawk, Theo. R. Hooper Pearson, John Shrimpton, Col. D. Appleton, Mrs. Tainkler (?) and Arethusa. In the groups of ten in pots not exceeding



ACALYPHA BICOLOR COMPACTA.

nine inches, Walter Hunnewell, T. D. Hatfield, gardener, and E. S. Converse were the winners in order as named.

In the classified groups all the above-mentioned competitors were entered, Mrs. Cheney winning three firsts, E. S. Converse, one first, three seconds and one third; J. S. Bailey two firsts and one third, H. H. Rogers, James Garthley, gardener, one second, and Mr. Hunnewell one third. Particularly well done in these classes were Mrs. Cheney's Mrs. H. Weeks, Mrs. E. B. Freeman, Georgienne Braumball, Red Warrior, Shilowa, Silver Cloud and Marion Henderson, Mr. Bailey's Ivory and Golden Trophy, Mr. Converse's Red Warrior and Pink Ivory and Mr. Hunnewell's Mrs. Traintor. In the classes for plants grown to single stem and bloom E. A. Clark took all the first prizes and E. S. Converse the balance. For group of foliage plants and chrysanthemums there was only one exhibit, that of Mrs. J. L. Gardner, Wm. Thatcher, gardener. E. S. Converse showed a good number of standard plants.

The cut flowers were staged in the lecture hall and made a glorious show, which would have been vastly improved, however, if the tables on which the long-stemmed flowers were shown had been at least a foot lower. In the class for twenty-five blooms for twenty-five varieties Mrs. Cheney and Miss E. J. Clark, John Ash, gardener, were first and second respectively. In six vases of ten blooms each, long-stemmed, A. W. Spencer, Alex. McKay, gardener, and Miss E. J. Clark were first and second respectively. In the classified displays Mrs. Cheney won

four firsts, one second and two thirds; E. S. Converse three firsts and one third; Miss Clark two firsts, three seconds and two thirds; C. D. Sias one first, two seconds and one third; J. J. Albright two seconds, A. W. Spencer four firsts and two seconds, Peter B. Robb four thirds.

Among the best of Miss Clark's were the following new ones: Mme. Gustav Henry, white; Calvat's 1899, pink; Chas. Longley, dark wine; Bessie Godfrey, yellow; Lillie Mountford, cream, and Miss Lucy Evans, deep pink. The same exhibitor also staged the only lot of 1902 introductions as follows: Queen Alexandra, A. J. Balfour, Philip Revoire, Godfrey's King, Godfrey's Prize and Purity. In Mrs. Cheney's collection the following were particularly fine: Merza, Eureka, Leonidas, Peter Kay, Mme. Duse, Mrs. Magee, Mme. Carnot, Mrs. Potter Palmer, Gold mine and Marguerite Jeffords. Merza, Col. D. Appleton, Vivian-Morel and Mutual Friend in the A. W. Spencer display of long-stemmed blooms were the limit of perfection.

E. N. Pierce & Sons filled four of the large vases with excellent blooms of commercial varieties but they were not in competition and the towering vases of big blooms arranged for effect which have been so conspicuous a feature of previous Boston exhibitions were entirely absent from the show this year, probably because of inadequate premiums, and the general effect was weakened accordingly. It was also noticeable that certain classes in the schedule, once popular, were practically deserted this year, particularly the classes for incurved varieties and anemone-flowered plants, the compe-

tion in the latter class having narrowed down to one variety, Garza. Of pompons there was but one example in the plants, Mr. Converse's Savannah, but in cut flowers this exhibitor staged a very comprehensive and interesting collection of pompons. A little more care in labeling might, with good reason, be observed by some exhibitors. The same variety was variously marked by three different exhibitors as Mrs. Traintor, Mrs. J. Trainor and Mrs. Tainkler.

The disposition seems to be, in these exhibitions, now, to drift away from chrysanthemums as an exclusive attraction, as the following notes will show. That it is a move in the right direction was evident in the interest shown by visitors in the roses, carnations and particularly the orchids. Messrs. Lager & Hurrell staged a very attractive group of cattleyas and other orchids of commercial value. In the competitive classes Mrs. F. L. Ames, W. N. Craig, gardener, won the silver-gilt medal and Oakes Ames, R. M. Grey, gardener, the silver medal. Besides these were some good blooms from Col. Chas. Pfaff, George Melvin, gardener, also two American seedlings, *Cattleya Rothwelli* (C. Bowringiana × C. Eldorado) from J. E. Rothwell and *Cattleya Wheeleri* (C. Gaskelliana × C. superba) from J. H. White, a silver medal being awarded the gardener, James Wheeler, for the latter.

The showing of carnations was excellent for the season, Patten & Company staging a large collection of the latest introductions and Peter Fisher his Enchantress, for which a well-merited silver medal was awarded. A silver medal was also given to Fairmaid. L. E. Small showed a vase of Lawsons of splendid quality. From S. J. Reuter came Lawsons and Lillian Pond, from S. J. Goddard, The Queen, and from H. A. Stevens & Company, Gov. Wolcott. Norris F. Comley showed a very fine lot of violets in seven varieties.

Two new roses claimed recognition and were the center of much admiring interest. Ernst Asmus received a silver medal for new yellow rose, F. Deegan, a flower which is lovely enough to deserve a more romantic title, and the Dale Estate was accorded honorable mention for Canadian Queen, their light pink sport from Mrs. Pierpont Morgan. Carl Jurgens sent a vase of fine American Beauties, the F. R. Pierson Company specimens of *Nephrolepis Piersoni*, L. H. Foster *Nephrolepis Anna Foster*, W. Hunnewell a group of *Oncidium ornithorhynchum*, Mrs. J. L. Gardner a seedling asparagus resembling a dwarf *A. tenuissimus* and R. & J. Farquhar a large group of bays, palms, ferns and other ornamental-foliaged plants which was one of the most effective features of the exhibition.

Philadelphia.

The old and time-honored Pennsylvania Horticultural Society is just now filled with pride, and with good reason, for its annual fall show, which opened November 11, is the best in its history. It is the best for several reasons. First, because it is the largest display; the exhibits, after taking up passages and extra space never before used, have overflowed to the covered driveway at the rear of the building, which is completely filled. Second, on account of the general excellence of all the entries, and, again, it excels in the perfection shown in quite a number of specimen plant exhibits which could not be equaled anywhere else.

The feature of the exhibition is the magnificence of the ferns exhibited by Thomas Long. It is surprising how adiantums, which are so susceptible to damping off, can be grown to such size. It must require the very best of care. Many of the ten plants exhibited measured from four to five feet in diameter and are of perfect form. His large specimen plant of *Gleichenia dichotoma* measured

thirty-one feet in circumference and is without a spot or blemish of any kind.

As this is considered mainly a chrysanthemum show, I shall deal more particularly with that flower. At the head of the first landing of the main staircase Hugh Graham placed two vases of his Philadelphia and Pennsylvania chrysanthemums. These flowers were arranged in the form of a panel, as one vase was much higher than the other, and both were trimmed with autumn leaves and asparagus. They were the first flowers to catch the eye and were much admired. On either side of the steps up to the main hall were placed vases of twelve, twenty and twenty-five, all superb blooms. The varieties prominent were Col. Appleton, Timothy Eaton, Pennsylvania, Vivid-Morel, Maud Dean, Merza and Goldmine.

In the yellow and white entries Col. Appleton and Timothy Eaton were almost the whole show. For the best twelve white there were nine entries, eight of them Eaton. F. Canning received first with Eaton. In the class for six blooms it was the same, all Eaton, with Canning again winner. There was no yellow to beat Appleton. One of the best commercial varieties is Major Bonnaillon, yet as an exhibition flower it has almost dropped out, there being a very few entered and these only to make up variety. There were very few Golden Wedding, which is also one of the best yellows. Quite a few kinds that were considered wonders in their time are still shown on account of the special prizes offered by persons after whose name or place they are called. These kinds are useful as showing by comparison what an advance there has been in the past ten years, but if possible the prizes should be turned over to the society to stimulate growers of better varieties.

The cut blooms were arranged on tables about the foyer. The tables could be six inches lower to advantage. There were several fine seedlings shown. A fine Bonnaillon-like flower of the same color received a silver medal. It was grown by Robt. Carey, who has sent out many good ones. Robert Craig & Son have a fine pink in A. B. Richardson. It is a beautiful flower, of the Maud Dean type, only it does not show a center, but is of fine form and, while larger, not so heavy as to develop a weak neck. Its color is about equal to Mrs. Perrin. I believe it is as good as any and better than most pinks up to date. It received a certificate of merit.

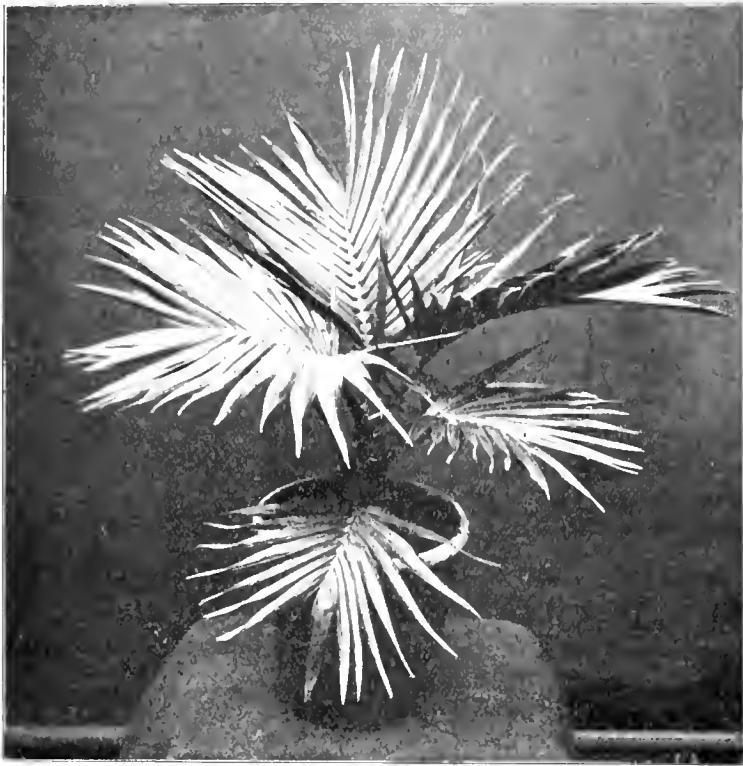
The chrysanthemum plants were better than last year, better shaped and better flowered. Still there is considerable room for improvement. If they were kept smaller and only contained one-half to one-third the number of flowers they would come nearer the ideal. There were several groups of foliage and flowering plants along the walls, arranged for effect. To say the least there was nothing artistic about the arrangement. For the most part they were so crowded that only the tops of the plants were shown and none of the natural grace of the plant given play.

Dreer's collection of *Pandanus Sanderi* was beautifully arranged in a setting of Farleyense ferns. It attracted considerable attention. On the stage was a fine collection of cacti, which was admired as much, perhaps, as the more highly colored plants. They were from the greenhouses of President Paul.

The lower hall, hitherto given over almost wholly to vegetables, held an excellent and choice assortment of medium-sized foliage and flowering



LINOSPADIX MICHOLITZII.



KENTIA COMPACTA NANA.

plants. There was one table of fine cyclamen, Robert Craig & Son having twenty-five of very well formed stock, not for competition, while William Fowler and Frank Ibbotson received first and second prizes, respectively, for twelve plants each. A Cocos Bonnetii from Craig & Son graced the center of the hall, while around it was placed an assortment of fine decorative foliage plants in 6-inch to 8-inch pots, John Hobson being the principal exhibitor.

John Shellem staged seedling coleuses of the broad-leaved variety which were brilliantly colored, also six choice dracaenas. H. H. Battles had a table of Farleyense ferns which captured several premiums. R. Craig & Son's Begonia Lorraine was fine, as was also a pan of the variety labeled Lonsdale's.

There are many other features that will have to have mention next week, but I must speak of the rose and carnation display of Wednesday. There was a vase from the J. D. Thompson Company, of Joliet, Ill., of their fine new carnation Enchantress, the flowers of which were probably larger than those of any other pink ever exhibited here. Peter Fisher, of Ellis, Mass., however, captured the prize for the best fifty blooms with a vase of the same kind. It certainly is a fine variety. Dailedouze Brothers staged a vase and plant of their new pink seedling, for the Craig silver cup for the best seedling, but it was won by Craig & Son with Adonis. The Dailedouze seedling is a bright Pay-break pink with a fringed edge and of a most delightful fragrance.

In the rose exhibit Mr. Asmus' new rose F. Deegan made a fine showing. It resembles Perle at night but has a beautiful distinct coloring, giving it a distinctive appearance in the day time. It is very fragrant. Beauty prizes were divided between Joseph Heacock and John Burton. Honors were even as Mr. Burton captured the prize for twenty-

five, while Mr. Heacock won first for six flowers. Adolph Fahrenwold had the Liberty prize to himself, but he deserved it, as his flowers were very choice.

There was an exhibit of violets, Aiken & Gillmet winning first with Luxonne and Prey, of Kinkora, N. J., first for 100 violets with double white, while Zimmer, of Collingdale, was first for Princess of Wales. Knott & Potter, of Fox Chase, had fine pansies and won first easily.

We must not forget F. R. Pierson's table of his *Nephrolepis Piersonii*. Six gold medals! He should melt them down and retire.

The show is evidently going to be a record breaker in point of attendance, as the papers are doing good work in giving large space to descriptions of choice varieties, and the weather promises to be fine. K.

Kansas City.

The second annual flower show at Convention Hall made as fine a success as did the great display in 1901, which opened the eyes of exhibition managers throughout the land. On Friday the attendance was close to 20,000 and on Saturday the crowd was great.

A gold medal was awarded the J. D. Thompson Carnation Company for Enchantress. Through a misunderstanding as to date of staging the two seedlings of H. W. Ricman, of Indianapolis, arrived too late to enter into competition in the seedling chrysanthemum classes. Both are incurved, Adelia, white, scoring eighty-five points and Miranda, pink, scoring eighty-two points. These look like good commercial sorts, the white resembling Ivory, although the foliage is better than this variety.

John Bertermann and Mrs. M. Flint judged the cut flower work and H. W. Buckbee, James Hartshorn and Isaac Kennedy the seedling chrysanthemums. The final awards were:

American flag in flowers, first, W. L. Rock; second, A. Newell; third, Samuel Murray; fourth, A. F. Barbe.

Best vase of Beauties, first, John Mangel, Chicago; second, W. L. Rock; third, Samuel Murray.

Best vase of chrysanthemums, first, J. Mangel; second, W. L. Rock; third, Samuel Murray.

Best vase of carnations, first, J. D. Thompson Co., for Enchantress; second, Samuel Murray; third, J. Mangel.



DRACÆNA BROMFIELDI.

Best vase mixed flowers, first, Samuel Murray; second, J. Mangel.

Best vase pompon chrysanthemums, first, W. L. Rock; second, Samuel Murray.

Best vase single flowers, first, W. L. Rock; second, Samuel Murray.

Three largest and three smallest chrysanthemums, first, Nathan Smith & Son.

CHRYSANTHEMUM SEEDLINGS.

White, first, Nathan Smith & Son, on No. 49-4-00.

Yellow, first, Vaughan's Seed Store on Yellow Chadwick.

Pink, first, E. G. Hill Co., on Mlle. Marie Liger.

Red, first, Nathan Smith & Son, on 15-8-01.

Bronze, first, Nathan Smith & Son, on 27-8-01.

Best of above, first, Nathan Smith & Son.

Best fifty flowers, variety of European origin, first, Nathan Smith & Son; second, E. G. Hill Co.

Best fifty flowers, foreign other than

Co.; second, E. T. Grave, Richmond, Ind. Twenty dark pink, first, J. D. Thompson Carnation Co., Joliet, Ill.; second, E. T. Grave; third, F. Dorner & Sons Co.

Twenty light pink, first, J. D. Thompson Carnation Co.; second, F. Dorner & Sons Co.

Twenty "any other color," first, Chicago Carnation Co.; second, Henry Eichholz, Waynesboro, Pa.; third, F. Dorner & Sons Co.

Named but not in commerce, 100 blooms, scarlet, first, Chicago Carnation Co.

White, first, Chicago Carnation Co.; second, H. Weber & Sons.

Flesh color, first, J. D. Thompson Carnation Co.

Light pink, first, J. D. Thompson Carnation Co.

Dark pink, first, E. T. Grave; second, J. D. Thompson Carnation Co.

Crimson, first, Chicago Carnation Co.

Variegated, first, J. D. Thompson Carnation Co.

Best variety of above, first, Chicago Carnation Co.

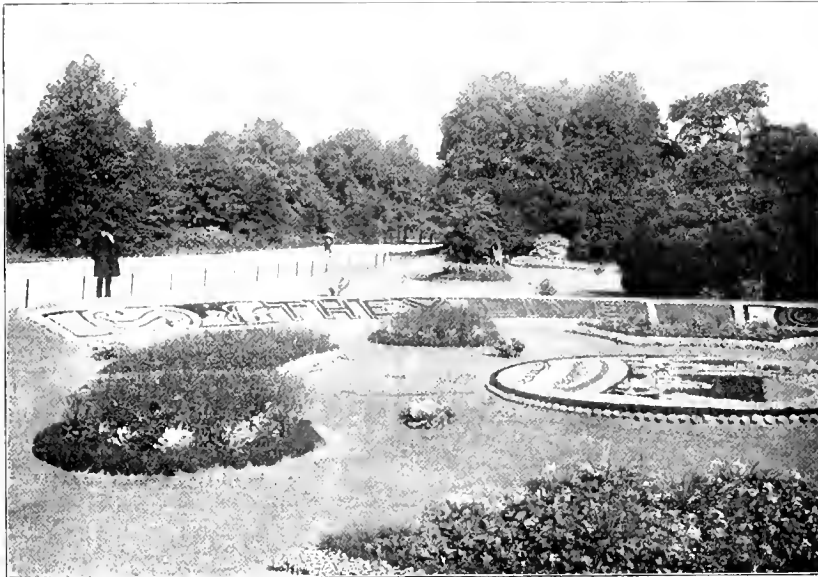
Manager Louis Shouse, of Convention Hall, gives out the following list of the cash premiums awarded:

Samuel Murray, Kansas City.....	\$ 906 00
Nathan Smith & Son, Adrian, Mich.....	531 00
W. L. Rock, Kansas City.....	461 00
H. W. Buckbee, Rockford, Ill.....	352 00
Peter Reinberg, Chicago.....	344 00
E. G. Hill Co., Richmond, Ind.....	328 00
South Park Floral Co., Newcastle, Ind.....	325 00
J. D. Thompson Carnation Co., Joliet, Ill.....	280 00
Chicago Carnation Co., Joliet, Ill.....	274 00
Vaughan's Seed Store, Chicago.....	261 00
J. Mangel, Chicago.....	160 00
Bentley & Co., Chicago.....	126 00
L. P. Walz, Chicago.....	115 00
W. J. & M. S. Vesey, Fort Wayne, Ind.....	98 00
Rock Heite, Kansas City.....	76 00
A. F. Barbe, Kansas City.....	76 00
Arthur Newell, Kansas City.....	75 00
Reinberg & Weiland, Newcastle, Ind.....	64 00
H. Weber & Sons, Oakland, Md.....	46 00
Robert Mueller, Chicago.....	45 00
E. T. Grave, Richmond, Ind.....	37 00
Gunnar Teilmann, Marion, Ind.....	35 00
S. J. Reuter, Westery, R. I.....	20 00
F. Dorner & Sons Co., Lafayette, Ind.....	16 00
Henry Eichholz, Waynesboro, Pa.....	4 00
Harry A. Adams (fish display).....	12 00
Carl Klum, Kansas City (fish display).....	8 00
Total.....	\$5,078 00

Tarrytown, N. Y.

The fourth annual exhibition of the Tarrytown Horticultural Society was held on November 12 and 13. The opening of the show was most auspicious. Outside was one of the most beautiful autumn days. Indoors was one of the best shows ever put up, an attendance far beyond the ordinary of gardeners of wide repute and throngs of admiring visitors who appeared to take the deepest interest in the enterprise. The judges, Alex. McKenzie, Wm. Russell, Peter Duff, G. H. Hale and Wm. Turner, each an expert of more than local fame, worked five hours before their task was finished. The only feature of the affair that could possibly be criticised was the limited capacity of the hall for such an extensive exhibition, but it is the largest hall in the town and so this could not have been remedied.

Three pyramidal groups of one-bloom-plant chrysanthemums, edged with ferns were prominent and effective features, perhaps a little too formal in outline, as these groups always are. They were from Wm. Scott, gardener to Joseph Eastman, who took first prize; George



CORONATION CARPET BEDDING IN BATTERSEA PARK, LONDON, ENG.

European, first, E. G. Hill Co.; second, Nathan Smith & Son.

Best fifty flowers of American origin, first, Nathan Smith & Son; second, E. G. Hill Co.

Six most distinct kinds, first, E. G. Hill Co.

Best European novelty, first, E. G. Hill Co.

Most novel and distinct American seedling, first, Nathan Smith & Son for F. J. Taggart, very large yellow.

SATURDAY AWARDS.

Dinner table decoration, first, L. P. Walz, Chicago; second, W. L. Rock; third, Samuel Murray; fourth, John Mangel, Chicago.

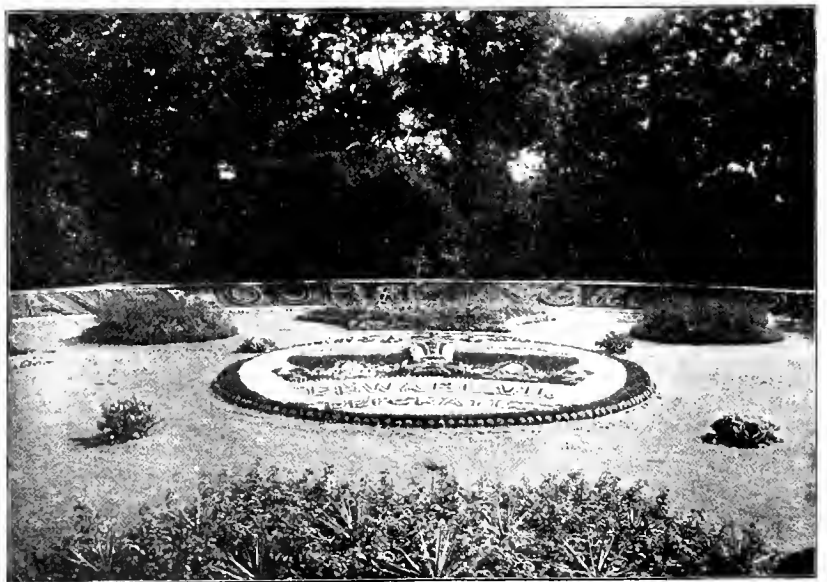
Seventy-five Liberty roses, first, Peter Reinberg, Chicago.

Rose sport not heretofore exhibited, first, Peter Reinberg on sport of Golden Gate, named Uncle John.

SEEDLING CARNATIONS.

Twenty blooms, white, first, F. Dorner & Sons Co., Lafayette, Ind.; second, Chicago Carnation Co., Joliet, Ill.; third, H. Weber & Sons, Oakland, Md.

Twenty red, first, Chicago Carnation



CORONATION CARPET BEDDING IN BATTERSEA PARK, LONDON, ENG.



CORONATION CARPET BEDDING IN BATTERSEA PARK, LONDON, ENG.

Middleton, gardener to Wm. Rockefeller, who took second, and Thos. Cockburn, gardener to Louis Stern. On trained bush plants Wm. C. Roberts, gardener to T. Potter, was the main exhibitor, taking all premiums except two seconds that went to Mr. Middleton. Mr. Middleton had the standard class all to himself and on single stem and bloom plants Jos. Howarth, gardener to Mr. Oppenheimer, and W. C. Roberts were the only competitors.

The decorative plant groups and specimens were of the highest type. Howard Nichols, gardener to Mrs. J. B. Trevor, put up a 100-foot group of elegant palms and other decorative material. The Henry Siefke special prize for table of ornamental foliaged plants brought out two entries of great beauty, from Wm. Scott and W. H. Waite, gardener to T. Untermeyer, Mr. Scott winning first with a group of perfect little gems of highly colored crotons, dracaenas, grasses, asparagus, pandanus, etc. The same competitors won in the same order in class for six plants dressed for table decoration. The fern entries brought out numerous specimens of enormous size, of adiantums, davallias, etc., plants measuring six or eight feet in diameter. In this class Mr. Scott won three firsts and one second, Ernest Townsend, gardener to C. A. Gould, one first, Howard Nichols two firsts and one second and Jas. Ballantyne, gardener to Mrs. Geo. Lewis, two seconds. Cyclamens were shown by Messrs. Townsend, Roberts and Howarth. A special prize from the president of the society, Mr. Scott, brought out a plant of *Asparagus Sprengeri* such as your humble servant never even dreamed of. Raised on a stand away above one's head, the luxuriant masses of green dragged on the floor, forming a dense column five feet through.

Chrysanthemum cut blooms were shown in great profusion, table after table of wonderful Merzas, Golden Weddings, Eatons, Goldmines, Weeks, Appletons, Kays, Morels, Barclays and other top favorites greeting the visitor on all sides. The class for thirty-six blooms of six varieties brought out magnificent exhibits from Geo. Middleton, Wm. Smith, gardener to Robt. Mallory, Wm. Nye, gardener to Miss Blanche Potter, and W. H. Waite. Mr. Middleton won first prize and Mr. Smith second.

In the class for twenty blooms of twenty distinct varieties Mr. Scott was first and George Middleton second, and on twelve ditto Mr. Scott again led, with Ernest Townsend second. Other fine sets were staged by Thos. A. Lee, gardener to W. A. Sand, and Samuel Riddle, gardener to F. A. Constable. The giants all competed in the classes for special colors, W. C. Roberts, S. Kiddle and Wm. Nye participating in the first prizes and W. H. Waite, Jas. Ballantyne and W. C. Roberts in the seconds. John Henry, gardener to S. Goodman, won on a vase of twenty-five handsome long-stemmed blooms, with autumn foliage, Mr. Waite being second.

The F. R. Pierson Company got a certificate of merit for an extensive exhibit of blooms. The Pierson special prize, a handsome silver cup, for twenty-four blooms in eight varieties was won by Wm. Scott with an unexcelled exhibit, Messrs. Middleton and Nye being also represented in the competition with fine entries. President Scott's prize for largest flower in the show went to Jas. Bell, gardener to R. T. Burton, for an enormous bloom of Merza. The C. P. Johnson special for pompons went to L.

A. Martin, gardener to W. H. S. Wood, Mr. Waite being second.

Carnation displays were extensive and of high quality. George Middleton was first and W. H. Waite second for thirty-six blooms in six varieties, Robt. Allan, gardener to E. C. Benedet, first and W. C. Roberts second for eighteen in three varieties and in the vases classified as to color. Messrs. Roberts, Allan and Waite participated in the first prizes and Messrs. Waite, Nye and Middleton in the second, while among the other exhibitors who were close thirds were Messrs. Smith, Henry, Scott, Townsend, Bradley, Wahlquist, Boshard and Howarth. F. R. Pierson Company got a certificate for Enchantress and honorable mention for Boston Market.

The rose classes were also well filled, the winners of first prizes for Beauty, Bridesmaid, Bride, Perle and Liberty being Messrs. Waite, Middleton, Ballantyne, Nye and Middleton respectively, J. S. Wahlquist, gardener to Mrs. J. D. Archbold, coming in second on Liberty and Geo. Draycott, gardener to W. H. Parsons, winning in the "any other" class with a vase of fine Sunrise. A certificate was awarded to Jas. Ballantyne for a blush-pink sport from Liberty. In violets there were a dozen competitors, Richard Lange winning in the commercial class with A. W. Williams second, John Johnson, gardener to B. S. Clark, and Wm. Nye in the private gardener class. There was a fine display of fruit and vegetables on the stage.

English Carpet Bedding.

In the public parks and in many private gardens in London the various emblematic designs having reference to the coronation of the king and queen were carried out with great effect, although, owing to so much wet and little sun, the colors have not been quite so bright as usual. The illustrations from photographs of some of the work in Battersea Park may give an idea of what has been done. In one part of the park there is a sunken garden and the sloping bank, about two feet high, is neatly covered with a bordering and letters, the plants used being chiefly alternantheras and echeverias. This sunken garden also contains beds of other subjects which break up the flatness.

Battersea Park has long been celebrated



CORONATION CARPET BEDDING IN BATTERSEA PARK, LONDON, ENG.

for the variety and tasteful arrangement in its bedding and Mr. Rogers, the present superintendent, more than maintained the reputation this season. H.

New and Rare Plants.

DRACÆNA BROMFIELDI.

This is one of the most beautiful dracenas in cultivation. The white variegation is pure and the green is dark, producing a combination of coloring that is exceptionally pleasing. The stock of this novelty is at present limited. It has been exhibited at two important English exhibitions this season, its presence in a group of plants being very effective and much admired. (See page 549.)

HELICONIA SANDERI.

When grown into a large specimen *Heliconia Sanderi* makes a very striking ornamental plant. It has already been described in this journal (August 12, 1899). The specimen illustrated on page 546 was among the group recently exhibited by Sander at the Temple Show in London. It is grown most successfully at Madison, N. J., by Wm. Duckham, gardener to D. W. James. It is a rapid grower and, like other heliconias, enjoys great heat during the summer, but should be half retarded in mid-winter and started again early in spring.

KENTIA COMPACTA NANA.

Comparatively few distinct kentias have appeared from among the millions of seeds that have been sown of the well-known *K. Belmoreana* or *K. Forsteriana*. The one shown on page 549 is a very striking departure from either of the two named varieties. The foliage of the plant is very vigorous, hard and the pinnae overlapping, and when the plant attains a few more feet it will be a unique object. It is now in the D. S. Brown collection at St. Louis, where many rare and beautiful palms have found a home. There are several amateurs in Europe whose chief hobby is in forming a collection of kentias and other palms. There are also some very distinct specimens at Madison, N. J., in the collection of D. W. James, several of them quite unique and well cultivated.

LINOSPADIX MICKOLITZI.

This very rare plant is represented in one or two collections in America. The specimen shown on page 548 was utilized for exhibition only this spring, and is undoubtedly the largest in cultivation.

The foliage is clear green but the general habit is interesting and it is well worthy of a place among stove plants, but unfortunately it may never become a plant universally grown, as its native home is remote and the locality not generally known. It was discovered by Mr. Mickolitz, after whom the plant is named, and distributed by Sander, of St. Albans, England.

ACALYPHA BICOLOR COMPACTA.

The new plant for which Vaughan's Seed Store was awarded a gold medal at the Kansas City exhibition has been grown at the firm's greenhouses at Western Springs, Ill., since 1899. It is entirely distinct from all other acalyphas and is a fine addition to the list of greenhouse plants, but it is as a bedder that it will find its greatest popularity. It will stand bedding out like a coleus, in fact it is in the sunniest places that it produces its highest coloring. It surpasses the finest coleus or begonia in its color markings, the leaves being bright green, margined with a wide, irregular band of lemon yellow and having wide yellow bars running lengthwise of the leaf and also thickly dotted with yellow blotches. The leaves are large, some of them as much as eight inches long and more than half as wide. The plant is compact in growth, with free branching habit, rarely going over eighteen inches high. It is illustrated on page 547.

Out of the Ginger Jar.

The last time I looked in the jar it was pretty empty, but since convention time a few nibbles have been maturing and a nibble at this condiment may stimulate us for a passing minute.

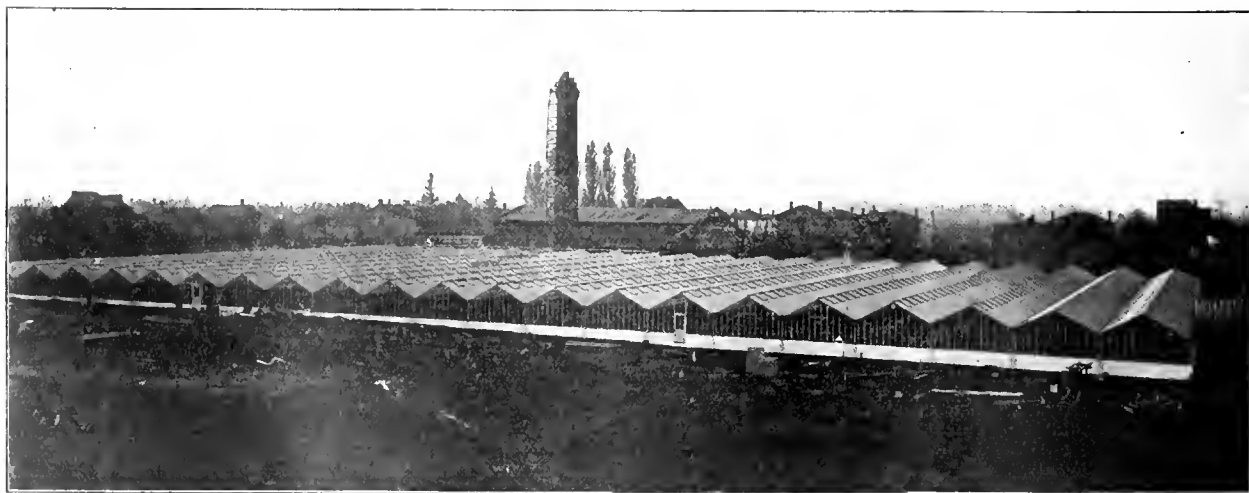
A great cry has gone up recently about the production of florists' specialties in the south. Fred Mathison, W. R. Smith and others have told us how good a thing it would be if the southerners would take up the growing of azaleas, bays, rhododendrons, Manetti stocks, hybrid roses, and bulbs, especially bulbs. They have dilated eloquently on the soil and climate of North Carolina and confidently predicted that if we would only go at the thing energetically there would be no necessity for going abroad for stock. "Look at the tuberose bulb," they say triumphantly. "See the millions of these now grown in the south for home use and also for export! Why not many other bulbs?"

I notice they are always amazingly vague on the "other bulbs." When pressed to specify they will say, "Well, er, Easter lilies, and Romans, and Paper Whites, and all that sort of thing." As for the three subjects mentioned, I believe they have been tried at several points in North Carolina, Texas and Florida, but I have yet to learn of anything very solid resulting from the experiments. Even Professor Massey, sanguine as he always has been on this subject, admits in his paper read at the convention that even candidum lilies are uncertain and *Harrisii* lilies are a failure in his section, although he thinks they can be grown farther back.

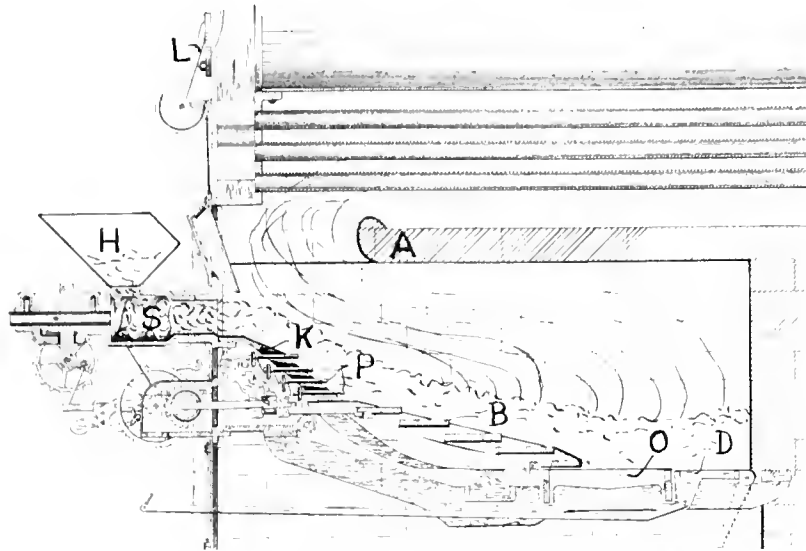
I feel sure that a live seed firm can accomplish ten times as much as the S. A. F. and the department at Washington and the amateur enthusiasts. Why? Simply because such a concern goes at things with a purpose. It knows what it wants and goes for it in a practical way. Take the tuberose that they all talk so glibly about. Wasn't it a seedsman who started that industry in the south? Take the gladiolus. They have a great deal to say about that! Where would that have been without V. H. Hallock?

My point is that the bulb business and the seed business may safely be left in the hands of those who have devoted their lives to those lines and to rest assured from past experience that wherever a special crop does best there it will be grown. You might as well insist on our growing our radish seeds in Pennsylvania when we can get them better from France, or our aster seeds in Michigan when we can get them better in Germany, as to tell us that we ought to get our Romans and Easter lilies grown down south when those whose business it is to know consider the matter very problematical at the present stage of the game.

I am not familiar enough with the trade in bays, azaleas, rhododendrons and so forth to have a decided opinion on that part of the subject, but the probabilities are that these might also be safely left to private enterprise. Broadly speaking, public bodies should not meddle with private business. They should confine themselves to such things as can only be done by a public body. And they should never try to benefit one section at the expense of another. What they do should be for the good of the whole. There's a whole lot of molly-



RANGE OF TWENTY-ONE GREENHOUSES 225 FEET LONG RECENTLY ERECTED BY THE DALE ESTATE, BRAMPTON, ONT.



CROSS SECTION SHOWING CONSTRUCTION OF THE KING AUTOMATIC STOKER.

coddling paternalism around at present that has no place in the arena of straight business.

Speaking of the gladiolus reminds me that John Farquhar, careful and correct as he always is, forgot to give credit to Mr. Hallock on the gladiolus. This was during an address at Asheville. Mr. Farquhar spoke fittingly of the work of Van Fleet and Groff but failed to mention Mr. Hallock at all and if I am not greatly mistaken the latter gentleman was not only fifteen years ahead of the others but greater than either in the practical work he accomplished. I feel sure Mr. Farquhar will be grateful to me for nudging him on this point, as he is quite familiar with Mr. Hallock's work.

The convention is fading from our memories a little, or rather the chief features of it are taking on that mellowness which is so charming in a jar of preserves, even although these may have been produced from unpromising materials. What was peppery then is mellow now. I can remember without the twitch of an eyelid even the dose that W. R. Smith poured into me on account of my lack of appreciation of the ideal and the beautiful. I never realized until then what a miserable misfit I was. There was a group of a dozen or so around his venerable and towering figure listening to his glowing words. In an unguarded moment I dropped some drivel about our being business men first and poets afterwards. Then you ought to have heard him! How the floodgates of his wrath opened and overwhelmed me in their irresistible force! One wave boiled me alive; the next congealed me in its icy embraces! I was tossed and buffeted, deafened and stunned in the mighty turmoil and had only recovered from the shipwreck when I found myself washed up on the Battery Park hill a quarter of a mile away from the whirl-pool.

However, now that I am a safe distance from Leviathan, I say it again, that the S. A. F. is a business organization, and has no call to teach aesthetics to the multitude and forget the business part. We are all out to see how we can make a dollar, all except "W. R. S." and Patrick O'Mara. As for the Humbugs, I suppose I am one of the Humbugs myself, for I would most shamelessly preach aesthetics and idealism or any other harmless "ism" if I thought it for the

good of business, but I would reserve the right to be honest with myself and my colleagues. As for the Humbugs, they have one virtue at least, for they draw the line at humbugging themselves. Of course after this declaration I will go down a side alley if I see "W. R. S." approaching in the near future. I don't want "the water cure" again.

Mr. O'Mara said "a grower must feel an enthusiasm born of a love of the beautiful, as otherwise he could not know the needs of a plant or supply its wants." And bye and bye Mr. Ward came on and talked for an hour or two on experiments with fertilizers. It seems he had been struggling with the problem of what the plants needed for several years. If he had only had "an enthusiasm born of a love of the beautiful" look what a lot of trouble he would have been saved!

I can smile as I think of that, and also at Patrick's reference to "Joe" Wheeler's rebel yell on the hills of Cuba. He is an adroit politician, is the doughty Patrick, and if they don't make him governor of New York some day it will be because he has gone down to Washington to a bigger job.

The late Major McKissick, peace to his

ashes, was perhaps the best hated man in Asheville for about forty-eight hours. The Battery Park is a fine hotel, but its advance booking arrangements were execrable and the head of the house naturally got all the blame. But after the shoot, and when many of us came to know him personally, his affability and courtesy were so pronounced as to largely dispel the thunderclouds of aversion. The true character of the man shone out at last and accounted to us for the remarkable reputation he held all over the country as a Boniface so magnetic and charming that people were always eager to give his house the preference.

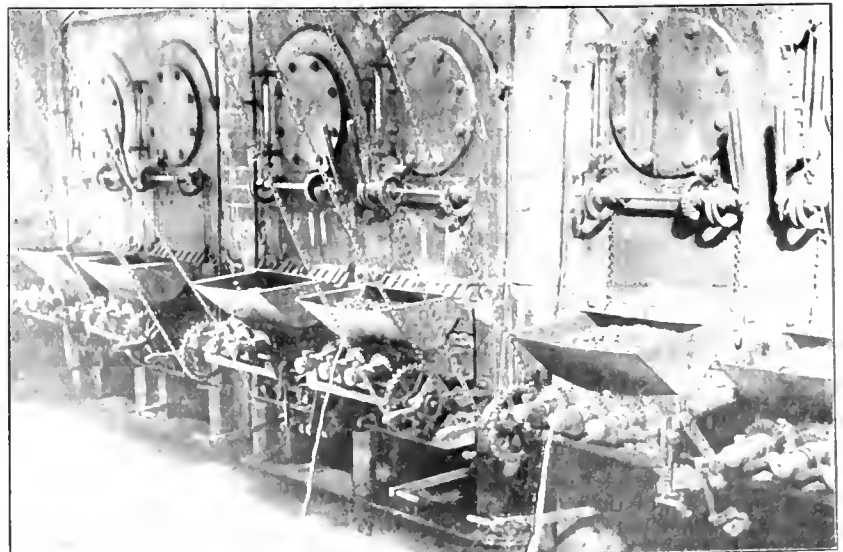
The Deacon's chum, George Anderson, of Darby Road, among the other streaks (or strokes) of adverse fortune which came his way at Asheville, had the bad luck to lose a shoot against the Major and with it a case of V. O. P. It took eight men four hours to present this trophy to the winner and at the wind-up each of the eight carried away with him a tappit hen of genuine South Carolina moonshine donated by Major McKissick. The one that came under my observation had this legend on the outside:

This whiskey is good
As ever yet stood
Steaming on table in glass or pot.
It came from a still
Right under a hill
Where the eye of the gauger saw not.
And he who is talking
A word about walking!

Out of the window at once with him!

So far as I have heard, nothing serious has since happened to any of the eight, indicating complete silence on the subject of "walking."

The general features of the convention were so well done by the reporters that there is nothing much of interest to be added by a lay member at this late date. The best thing I read in that connection was Wm. Scott's review of the occasion. That account was one of the best things Scott has ever done, and that is saying a good deal. I heartily agree with the opinion that so successful a convention at such a distance was a sure test of the stability and importance of the society and would have been quite impossible ten years ago.



KING AUTOMATIC STOKER AT THE DALE ESTATE GREENHOUSES, BRAMPTON ONT.

In closing the jar I want to send a word of greeting to the Greenwood Philosopher. Far from considering him a trespasser, I welcome most cordially his cheerful and stirring company among the preserves. And let me say in all sincerity that the flavor of his jar is so far ahead of mine that I hope he will take the lid off at very frequent intervals.

But he's all wrong about the fill-up-scheme. They do the best they can with the funds at their disposal. They give the grower all they can and they also try to give the visitor his 50 cents worth. Don't blame the poor fellows who are running the show. They can't help it. It's the system that's wrong.

And the correct system? There are two that I know of:

(1) The Massachusetts Horticultural Society system: Money to pay handsomely for a show, independent of the box office.

(2) The red fire system, on the Barnum plan: Simply to make money and eliminating the "advancement of floriculture" idea entirely.

We may discuss it until the cows come home and that's about where we'll land. I have been wrestling with it for fifteen years and that's where I have "arrove" finally and definitely. It must be either number one or number two. No middle way. Furthermore, I don't echo that wail about the scarcity of Taggarts.

There are Taggarts in every city of any size. I'll bet you could get half a score of them right here in Philadelphia if you took the trouble. I don't say in our business, but near enough the "hoop-skirts" of it, as Sam Pennock says, to be quite available.

I dearly love to agree in my opinion with the people who stand up and say something. But when you come to think of it this "Me Too" role is very useless and a great waste of breath. You will therefore notice that I only speak up

A Canadian Enterprise.

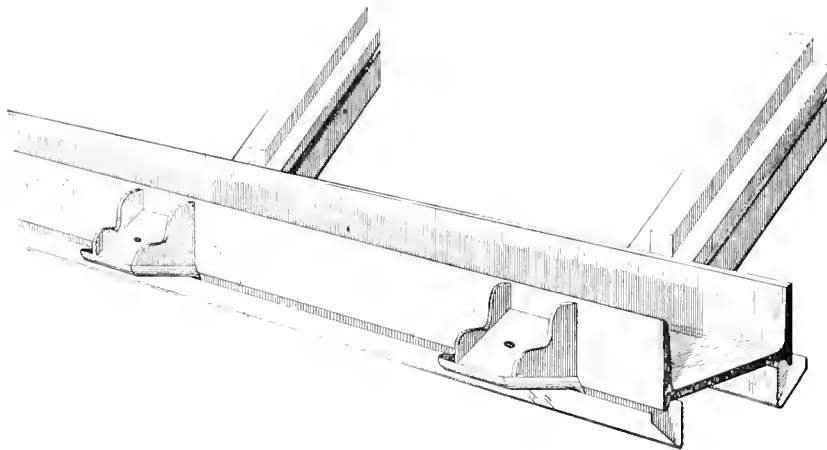
The illustrations of the new greenhouses and devices at the Dale establishment at Brampton, Ont., to be found in this issue, serve to remind us of the marvelous progress which has been made at that place within a comparatively few years. It was, indeed, a modest beginning in floriculture that was made by the late Harry Dale, about 1880, and now one block of rose houses alone covers an area of three acres. At the time of a recent visit, a new plant was in course of construction containing, in two unequal sections, twenty-three houses, 17x225 feet, each house being designed for extension to 500 feet in length. In the power house twelve water-tube boilers were being installed, the house itself having capacity for thirty-six such boilers, arranged with modern conveyers for carrying coal to boiler, each boiler being fitted with King's automatic stoker. The cold storage building has a capacity of 3,500 tons, and a brick coal shed 58x108 feet, thirty feet high to the ridge, was being fitted with all modern appliances for handling coal and preventing spontaneous combustion. The coal used is Reynoldsville slack, costing about \$2.35 per ton, delivered. It is the automatic stoker employed which renders possible the use of this slack.

Heating and structural ideas, as developed in the new houses of the Dale establishment, are thoroughly modern, as will be found from an examination of the illustrations. In a cross section showing construction of the new houses the principal dimensions are as follows: Length, 225 feet; span, seventeen feet; height to gutter, seven feet; height to ridge, eleven and one-half feet; width of walk, two feet. Battered glass is used throughout. Automatic ventilation has been extensively employed in both rose and carnation houses. The illustration shows the

hopper, H, by a tube leading from a storage bin above the boiler. The screw, S, forces the fuel to the coking plate, P, where it is exposed to the action of the flame from the lower part of the furnace, which is deflected toward it by the fire-brick arch, A. The result is that the smoke and more volatile gases are burned out, the fuel coked and smokeless combustion secured. After the fuel has been coked it is carried on down by the cokers, P, to the alternately reciprocating grate bars, B, and by these delivered to the ordinary grate bars, O. Ashes and clinkers are dumped by the hinged grate, D, worked from the front of the furnace. There are in all forty-four stokers and an equal number of water-tube steam boilers. The stokers burn from twenty to twenty-five pounds of fuel per square foot of grate surface per hour, using the natural draught of a 60-foot chimney.

The product of this concern is mostly shipped to such points as Montreal, Toronto, Quebec, Ottawa, Prince Edward Island, Halifax and Winnipeg with occasional shipments to the United States. The stock grown consists chiefly of roses, carnations, violets, lily of the valley chrysanthemums, Asparagus plumosus nanus and smilax. *Lilium Harrisii* is forced to the extent of 3,000 and *L. longiflorum*, 5,000; Roman hyacinths, 30,000; daffodils, 10,000, all Von Sions; lily of the valley, 500,000. Violets are grown to the number of 20,000, Farquhar and Princess of Wales. This concern has never been able to make a market for Campbell, and Marie Louise has always been diseased. One house 350 feet long is devoted to asparagus, and one 200 feet long to smilax. The chrysanthemums grown include Fitzwygram, Glory of Pacific, Marion Henderson, J. E. Lager, Ivory, Pink Ivory, Vivian-Morel, Niveus, Timothy Eaton and a few others in lesser quantity. About 100,000 carnations are grown regularly, including White Cloud and Glacier (said to be one of the best here) for white; Crane, for red; Roosevelt and Maceo, for crimson; Lawson, Marquis, Morning Glory and Melba. Varieties under trial are Governor Wolcott, Mrs. Potter Palmer, Mrs. Higinbotham, Gaiety and Estelle. This concern is also Canadian agent for Adonis and Enchantress.

The roses grown include American Beauty, 12,000; Bride, 20,000; Bridesmaid, 25,000; Liberty, 4,000; Perle, 3,000; Morgan, 6,000; Sunset, 4,000; Meteor, 5,000, with a few Cusin and Sunrise. Edward Dale, manager of the greenhouse department, stated that he had kept Bride, Bridesmaid, Perle, Sunset, Cusin and American Beauty two or three years in the same tile benches, removing annually as much of the top soil as possible without injury to the roots. The soil is allowed to dry out only enough to be handled easily, and the plants are pruned back to six inches. With old grafted plants Mr. Dale found that he had more blooms of first quality when carried over two or more years. About 35,000 plants were grafted last year, including Bride, Liberty, Bridesmaid, Morgan, Cusin and American Beauty. Grafted stock of Perle and Sunset does not succeed here, while grafted Liberty does much better than stock on its own roots. Stock carried over this year for the first time on tile beds looks better than any ever grown one year in benches. This stock includes Bride, Bridesmaid, Perle and Sunset. The new rose, Canadian Queen, was not in bloom when the place was visited last September, but the stock of 2,500 plants was in



SECTION OF IRON GUTTER EMPLOYED IN DALE ESTATE GREENHOUSES.

when I think I have a little contribution to make to the discussion. That's the idea, and not a malign devil of contradiction possessing me, as some of my dear friends would have you think. Neither do I believe in tucking my good humor under the bed when I tackle a knotty problem. You may contradict this child all you want to, he'll never get mad on account of the other fellow not agreeing. I am full of sins and back-slidings, but a love of "contr'ing" people is not one of them.

GEORGE C. WATSON.

automatic machine attached to an iron pipe post, H, connected to the shutter shaft, D, by the crank 3 and connecting rod 5. The machine is provided with the usual rubber and iron thermostat. It works like a small, well balanced controlling valve, water entering either below or above the piston in cylinder, 1, to push up or pull down the ventilators as the temperature changes.

Two of the illustrations show the automatic stoker employed for burning the soft coal screenings known as Reynoldsville slack. The fuel is brought to the

excellent condition. In tying, wires are used, suspended from the rafters by means of strings. The soil is a medium clay. Steam heat is employed throughout.

The executors of the estate, Wm. Algic and Thomas W. Duggan, have every reason to feel proud of the success which has attended their efforts since the demise of the founder of the establishment, and their further endeavors will be watched with lively interest by every grower in this country as well as their own.

Herbaceous Plant Notes.

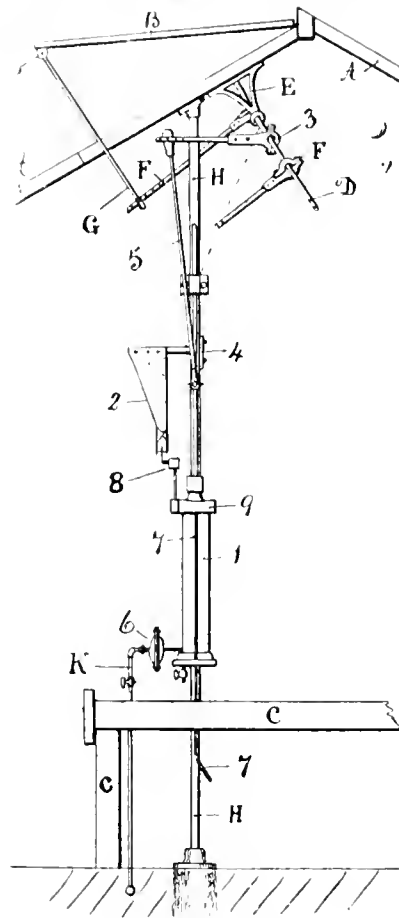
Hardy plants in the borders or shrubbery should have a little attendance before winter sets in. The more vigorous growers, especially, should be seen to and if they are crowding their neighbors by spreading out too far, part of these unruly plants should be removed and planted elsewhere if wanted. The borders should have a general cleaning. All old stems should be removed first and then you should proceed to fork over all the spaces between the plants and wherever you notice that a clump has extended crowns or roots beyond its allotted space part of such clumps should be cut away with a sharp spade, thereby allowing their perhaps weaker neighbors a chance to develop more perfectly another season.

Planting ordinary stock may still go on, but the weaker and choicer things should not be disturbed so late in the season; they are too apt to succumb to dampness and are not likely to withstand the oft repeated changes from freezing to thawing when not established. The late plantings of all stock must have winter protection of some description, straw, litter, leaves or long manure. The latter is preferable, enriches the ground and is not likely to be blown about by the wind, as is the lighter material. The spaces between the plants should be covered snugly up to the crowns, but the plants themselves must have air; a very slight shading is ample protection for them.

The covering of the ground around the base of the plants will prevent the heaving out of the unestablished plants, otherwise crowns and roots would stand exposed to the dangers of alternate freezing and thawing. Evergreen foliage should never be covered under a layer of leaves or litter of any sort. A mere shading may in some cases be required, but almost all of our sheet-forming, dense-growing perennials are better off without it; the foliage needs all the air it possibly can get. Iberises, arabises, aubretias, the creeping phloxes, alysums, helianthemums, erinus, arenarias, linneas, sedums, Veronica rupestris and its allies, armerias, drabas and the like will winter safely without shading and

if covered at all, evergreen boughs are preferable, and even these should be used but sparingly.

I have often said we should avoid early covering, as plants do not suffer during the early part of the winter, and I repeat here that more harm is done to our hardy plants by covering than by the severity of our winters. Even the new,



AUTOMATIC VENTILATING MACHINE USED IN DALE ESTATE GREENHOUSES.

late plantations should not be covered until the ground is frozen hard; then, under this covering, the earth will remain frozen unless a prolonged spell of mild weather thaws it out. Toward spring, in February or March, is the most dangerous time; before then but very little damage is done to the dormant plants and if we protect them then they would be safe enough, while early protection often causes decay, among the dense mat of growth especially, destroying stems and foliage in patches or sometimes even

the plants themselves. But even if we save the plants we cannot expect flowers, for the season, at least.

The past summer has been a favorable one for vigorous growth of all the hardy plants, and young stock especially has made remarkable growth. The moist summer has caused many of the spring-flowering plants to make a second start and many of them have bloomed again or are still in flower, even though we had several quite heavy frosts. The early aconitums, for instance, have come out with a profuse crop. A. Tauricum and A. Napellus album are now in flower with the latest bloomers, A. autumnale and A. Japonicum. Veronica rupestris and V. montana show numerous blue spikes. Caltha palustris fl. pl. is making a show almost as good as in spring time, also various trollises and Papaver orientalis has opened quite a number of its large, brilliant flowers. Polemoniums of various species, aubretias, dwarf phloxes, delphiniums, digitalises, geums, erigerons and a number of other things have bloomed a second time and there is still a fair show of asters, veronics, echinaceas, erodiums, geraniums, Iceland poppies, physostegias, hybrid lobelias, scabiosas, coronillas, Plumbago lar-pentae, stokesias, Eupatorium eclectinum, gaillardias, tunicas, anemones, saponarias and coreopsises, which may last well into November, as it has done often before.

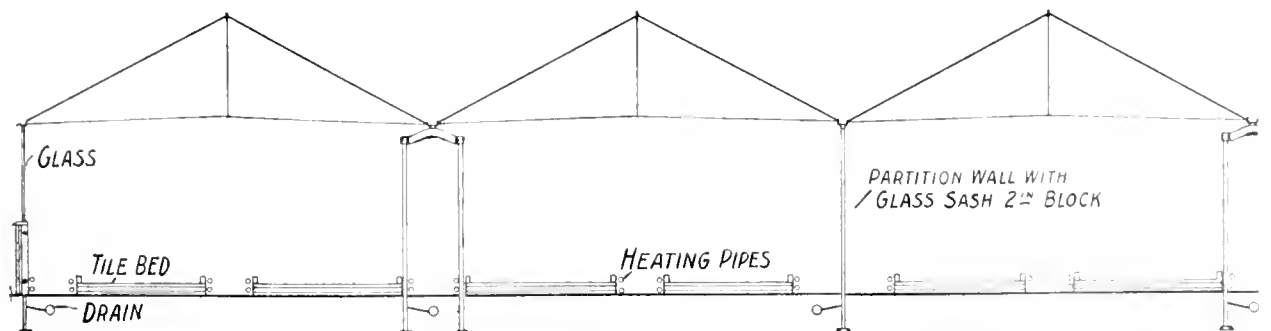
In a lot of Rudbeckia purpurea seedlings, blooming for the first time this fall, we discovered a number of flowers with longer and broader, drooping petals and much brighter in color, a variety which I knew years ago under the name of R. serotina and which I could not find advertised in any of the catalogues lately. It certainly is a great improvement on the ordinary R. purpurea, vigorous in growth, free flowering and the flowers of great size and substance. We shall take good care not to lose it again.

J. B. K.

Epiphytes of Florida.

The moist and tropical climate of southern Florida produces a very dense and luxurious growth, consisting of mangrove, mahogany and rubber, as well as live oak, cypress and numberless other kinds of southern forest trees. Among these are the graceful Oreodoxa regia and many other beautiful palms.

The presence of these dense swamps and forests bordering the everglades, as well as the climatic conditions are peculiarly conducive to the growth of all the epiphytes that are native to Florida. In the swamps here are found no less than twenty kinds of orchids, and as many or more of tillandsias and ferns, some of which are very rare and beautiful. Such



CROSS SECTION SHOWING CONSTRUCTION OF THE NEW GREENHOUSES OF DALE ESTATE, BRAMPTON, ONT., 21 IN RANGE

is the beautiful *Asplenium serratum*, which I have found quite rare.

Among the orchids I find the showy *Oncidium* and the *Cyrtopodiums*, as well as many beautiful small *epidendrums*. And I have also found one, resembling the *epidendrum*, a large and very showy plant, having small yellow flowers, for which I have not been able to find a name. I have sent a specimen of it to the Smithsonian Institution for classification, but so far they have not named it.

Most of these plants I have found here, and many others in the great swamps along the coast, where I have been making collections of all of them for botanical gardens and orchid fanciers in various parts of the country. But many of them are found only in very remote regions bordering on the everglades. Some of these plants are not generally known to exist in the United States which, of course, adds to their value from a botanical standpoint, and may be of commercial value to orchid dealers.

J. E. LAYNE.

Some New French Roses.

The following new roses will be put in commerce this autumn by J. Pernet-Ducher, the well-known French rosarian, who raised such beautiful roses, as *Soleil d'Or*, *Prince de Bulgarie*, *Mme. Caroline Testout*, *Mme. Abel Chatenay*, *Souvenir du President Carnot*, *Marquise Litta* and many others:

Mme. Paul Olivier.—Very vigorous, upright, with large bronzy leaves and long oval buds; the flower is very large, full, globular, and salmon shaded with pink. Very free flowering.

Monsieur Leide.—Very vigorous and of branching growth, with fine, deep green leaves and very large, full, cupped flower of a superb pink-carmine tint, shaded with yellow. Very sweetly scented. Has a long season.

Senateur Belle.—Very strong in growth, producing straight shoots. The leaves are light green and the flower large, very full and globular in shape. Color rosy-white salmon, the center deep yellow; outer petals shaded with rosy carmine; free flowering.

Monsieur Joseph Hill.—Shrub very vigorous, branching habit; fine green bronzed leaves, superb long bud oval shaped. Flower great, full, of the best shape, color pink salmon, shaded with yellow, the outside petals pink-copper hued. Very fragrant and free flowering.

These four varieties are all hybrid tea roses, and the descriptive particulars have been kindly supplied by the raiser.

It Is to Laugh.

"Women in need of money-making occupation ought to read up on violets. First prepare a plot of ground 100 feet long by eighteen feet wide and then plant violets in it. If you fail to clear \$1,000 the first year blame George Saltford."—*Boston Times*.

Referring to the government's flower show at Washington, the *Washington Post* says that "the 'kissing-palm' naturally was a favorite here and many persons stood around the plant and wondered at the peculiar power for which it has been named. Many others visited the 'mother-in-law plant,' a small, insignificant specimen, harmless to the touch, but poisonous if scraped."

The *New York Sun* devoted a whole column of its evening edition on October 23 to a description of the war of exter-

mination which the United States government is waging against the "Dutch hyacinth, the pet of the European aristocrat and the pride of the Dutch florists," making the ludicrous blunder of confounding the *Eichhornia crassipes*, sometimes known as "water hyacinth," with the spring-flowering garden bulb.

According to the *Boston Post*, Frank P. Sawyer, of Clinton, has a pink that "awoke to find itself famous" one recent morning. "Mr. Sawyer," it informs us, "took slips of the Lawson and slips of the Chicago. The pollen was procured from one and the polozoned from the other." In the east it is believed that a "polozoned" from Chicago should be a winner.

According to the *Manchester* (N. H.) *Union* a rare plant recently found has been identified at Harvard Botanical Garden as "circum palcustris of scopeti." Fortunately it is no worse.

Chicago.

CLUB BANQUET.—ROSE CROP OFF AND MARKET STIFF.—LIBERAL SUPPLIES ON ALL OTHER ITEMS.—DEMAND PROVES VARIABLE.—PROSPECTS FOR THANKSGIVING.—THE GROWERS.—A VARIETY OF TRADE AND OTHER JOTTINGS OF FLOWER SHOW WEEK.

The trade visitors to the meeting of the Chrysanthemum Society of America and the exhibition of the Horticultural Society of Chicago were tendered a banquet at the Auditorium, November 13, by the Chicago Florists' Club. Nearly a hundred sat down to the feast and in calling the assembly to order at 10:15, President Winterson expressed great pleasure at the presence of the numerous visitors from distant cities and regretted the absence of our dear friend Edgar Sanders, as the only drawback to an ideal reunion. He then introduced President Chadwick, of the Horticultural Society, as the toastmaster of the evening. Mr. Chadwick felicitated the company on the progress of our trade during the past twelve years of the existence of the society. He called upon President Herrington to respond to the toast, "The Chrysanthemum Society of America." Mr. Herrington said he responded to this with much pride and pleasure. He felt that the indebtedness of the Chrysanthemum Society to the Horticultural Society of Chicago was of great and lasting character. In concluding his remarks Mr. Herrington presented to John Poehlmann the silver cup offered by the society for the best ten flowers shown by any grower. President Chadwick then introduced ex-President E. Gurney Hill, giving him the toast, "The Progress of Horticulture During the Past Ten Years." Mr. Hill's advice to the young men in horticulture was very interesting. He alluded to the progress in carnations, but thought we could properly charge ourselves with remissness in developing the roses. In carnations he felt that the advance was much more commendable, in fact might be called tremendous. The Enchantress, as seen here, he said was a notable example. Elmer D. Smith answered with the toast, "The Flower Which is the Backbone of All Our Shows." About 1886, Mr. Smith said, the first chrysanthemum show was held in New York, and from this the shows had spread to nearly every state in the Union. No matter how remote, nearly every city in every state holds its annual exhibition. Compare here to-day the giant blooms of Eaton and Appleton with Jessica, Mrs.

Frank Thompson and *Gloriosum* of fifteen years ago. While keeping in view the grand commercial forms, we as true horticulturists must not overlook those unique and striking types that appeal to the tastes of the general public. Prof. John F. Cowell spoke for "The Botanical Garden." The botanical garden, Mr. Cowell said, may be credited with the introduction of the seedless orange and has done more to improve the yield of wheat during the last fifteen years than all the agriculturists of the world. "Horticulture in a Democratic District," was responded to by Judge Vesey, of Indiana, who spoke very poetically of the fragrance of the violet, the carnation and the rose, which he said gave in his district as delightful odors, flushed as rich a pink, or burst into as glorious bloom as in any republican territory. Frank T. Robinson responded to the toast, "Kansas City." Alex. Wallace responded to the toast, "The Horticultural Press." Mr. Wallace prefaced his remarks by congratulating the two societies on their grand joint exhibition, which he said he believed excelled any yet held in this country. Mr. Wallace credited the trade papers with much of the enthusiasm and interest which had been shown by the trade in carnations and other leading flowers. Among others who responded with brief remarks were J. D. Carmody, G. A. Rackham, W. N. Rudd, Philip J. Foley and F. S. Allen. Songs were rendered during the evening by Frank Carter, Anton Then and the Florists' Club quartette. The arrangement of the banquet hall, the decorations and the menu reflected much credit on the committee, P. J. Hauswirth, who had the matter in charge. The Geo. Wittbold Company contributed decorative plants and Peter Reinberg a profuse display of his finely grown Sunrise roses.

The week opened briskly with the rose market well cleaned out; in fact supplies in this line had so shortened that by Friday prices had stiffened and Saturday found the best stock in the market worth \$7 and \$8 per hundred, with the fakirs' grade at \$2. Seldom has the crop dropped away so quickly. Warm weather this week has helped to bring in everything that could be expected of the plants, so that stringency has been avoided, but wholesalers have frequently been pushed to fill orders. The receipts of Beauty have held up better than on teas and the stock is first-class. It is getting its color back again, lost in the recent protracted period of rain. But Brides and Bridesmaids have lost something in quality. *Mme. Chatenay* was never better and *Ivory* and *Liberty* are superb. Carnations are coming along heavily, steadily and of improving quality. Violets have been abundant but for the past couple of weeks the supply has not been well distributed, the receipts being lightest when the demand was greatest and heavy on the days when bad weather kept people off the streets. There are practically unlimited quantities of chrysanthemums, including every seasonable variety and all degrees of quality. Prices have ranged from 2 cents apiece to \$4.50 per dozen, but the ordinary run of stock has been held at from \$1.50 to \$2.50 per dozen. Eaton seems to have the call for white, and yellow has not moved as rapidly as usual. There is good business on the choicer stock for wedding work and wild smilax is beginning to move. Trade is variable as yet, Tuesday seeing a dull market. Since then demand has been more steady,

but, despite the weather forecaster's daily prediction of snow and cold, the weather has continued too warm for a good fall business. The prospects for Thanksgiving are now engaging attention. The indications are for adequate supplies except on the item of roses, and the advance quotations are about on last year's list.

Mrs. C. L. Washburn is suffering from another impairment in health and her condition is giving much alarm. On Wednesday Mr. Washburn took her to Alma, Mich., for treatment. In the event of the hoped-for improvement he will be back at the store on Monday.

J. A. Budlong is ready for cold weather; he has a coal pile on hand which cost him \$5,000. Another item on hand is 550 boxes of glass laid in at a cheap price, but it presages further additions to his range in the early spring.

Wietors will plant La France more extensively next year, finding a big call for the present cut of choice buds. Several others who once discarded this rose will plant it again next year.

H. Bauske doubled his space for Beauty this year. He has also thrown out Meteor to give room for Liberty, and is well pleased with the move. Randall gets the cut.

Gunnar Teilmann, of Marion, sent some fine exhibits for the show, but failed to enter them in season, so Amling sold them. The Goldmine were great.

The Fleischman vase of 100 chrysanthemum blooms at the show was Timothy Eaton grown by Weiland & Risch. The stock was very fine.

J. A. Peterson, of Cincinnati, is at the Palmer house with some good Pandanus Veitchii and Gloire de Lorraine begonias.

A. Dietsch & Company have been given another patent, covering recent improvements in their new plan of construction.

Deamud is congratulating himself on the wild smilax he supplied for the show. It was up to exhibition grade.

Mrs. C. M. Dickinson, wife of the manager at Hunt's, has recovered from a trying three weeks' illness.

Emil Buettner became the proud father of twin daughters on Tuesday.

Toronto.

TRADE SHOWS CONSIDERABLE IMPROVEMENT.—ALL ABOUT SUPPLIES.—GROWER HAS FINE NEW RANGE.—STOCK IN GOOD SHAPE.—NOTES.

Trade, which has not been very encouraging, is again picking up. Quite a number of funeral orders and brisk transient trade is relieving the market of the over-abundant supplies. The weather still remains pleasant and the good growth the plants are making is favorable to a good winter crop; the quality of stock is very fine. Roses are to be had in unlimited quantities and the past week has seen a drop in price. First-class Beauties at \$20 per hundred are plentiful and the buds are well colored. Kaiserin is holding up well. Bridesmaids, Meteors and Brides are good, quoted at \$6. Carnations are even more plentiful but prices remain unchanged. Lawson and others of the finer varieties sell well but the seconds hang on. Col. Appleton has been arriving in large quantities but this variety is disappointing, for after being cut a day or two, they become soft. Retail customers have also complained of its keeping qualities. Several seedlings from Geo. Hollis take well; two of the pink varieties hold certificates.

W. J. Lawrence has added 16,000 feet

of glass to his place in Eglinton, to be devoted to roses. The new section is of the modern kind, with tile benches and iron gutter. Six weeks' delay was caused by the scarcity of glass and the plants suffered some, but the warm sun lately has helped them considerably. Lilies and a little mixed stock and a few chrysanthemums form the stock for the other 7,000 feet of glass at this place. A model packing room has also been added. A bulb shed about twelve feet high, with three tiers of shelves, contains the bulbs after they have been planted in boxes. At the other place in Mimico Thos. McKim, late of Grainger Bros., now has charge. The entire seven houses are planted in most of the standard varieties of carnations, which are doing well.

The Horticultural Society held a chrysanthemum show in its rooms on November 4. Quite a showing was made by both amateurs and professionals. The meeting was well attended and prizes were awarded to amateurs only.

A shipment of Lillian Pond carnation arrived in splendid shape and was much admired at Jno. H. Dunlop's.

H. G. D.

Cincinnati.

CLUB HOLDS A SUCCESSFUL CHRYSANTHEMUM SHOW.—GOOD STOCK EXHIBITED.—BUSINESS VERY DULL AND MUCH GOOD STOCK GOES TO WASTE.

The chrysanthemum show at the club rooms last Saturday brought out a big display, although in quality the flowers were not up to last year's. A tremendous crowd of spectators viewed the different exhibits. Messrs. Hardesty, Kelly and Jones were the judges and awarded the premiums as follows: Twelve white, first, Witterstaetter, with Chadwick; second, E. G. Hill Co., with Eaton; third, Witterstaetter, with Eaton. On pink, J. W. Rodgers received all the prizes with Perrin. In yellows Witterstaetter was first and second with Appleton, the Hill Company third with Yellow Eaton. In the class for twenty-five Bonnaffon the competition was very keen, there being five good vases. The Hill Company received first, Witterstaetter second and Rodgers third. Witterstaetter received first for best general display. George & Allan were awarded a special prize for their table of miscellaneous stock. Will Murphy had a vase of Murphy's White and J. A. Peterson showed Begonia Gloire de Lorraine and a handsome vase of Lawson carnations. Other exhibitors were Wm. Schuman, Henry Schwarz and Thomas Jackson. At the meeting in the evening there was scarcely a quorum present and it was decided to hold a special meeting for Saturday night, November 15.

Business, owing to the very warm weather, seems to drag, and flowers of all kinds are plentiful. It is impossible to move one half of the stock received and great quantities of good stock find their way to the barrel. Chrysanthemums, carnations and roses are simply a glut, while lily of the valley and violets are just about equal to the demand. Just think of Timothy Eatons, and good big ones, too, selling for 10 cents apiece.

Richard Witterstaetter says that any one who claims that the exhibitions given in the club rooms do not benefit the standholders in the market house speaks without knowledge of the facts.

J. W. King, of St. Louis, is with J. M. McCullough's Sons as manager of their wholesale cut flower department.

D.

Indianapolis.

STATE ASSOCIATION GIVES AN INFORMAL FLOWER SHOW.—MANY EXHIBITS AND QUALITY OF THE BEST.—NOTES.

The Indiana State Florists' Association held a small fall show at the agricultural rooms of the State House on Wednesday, November 12. The show was a success in every respect. The exhibits were of fine quality, tastefully arranged and there were just enough of them to fill the hall comfortably. Although the show was not extensively advertised there were many visitors, and they all seemed to take a great interest. The exhibitors will be well paid for their trouble by the advertising which they received. The South Park Floral Company contributed a fine vase of their new yellow rose, Franz Deegan. On Stuart & Haugh's table were fine vases of Mrs. Weeks, Appleton, Eaton, Golden Wedding and Mrs. Jerome Jones. They also showed Avondale and Lawson carnations and Golden Gate, Bridesmaid and Bride roses. Henry W. Rieman had on his table a display of carnations and chrysanthemums. The latter were of the well-known Rieman quality, especially his new seedling, Majestic, which took everybody's eye. Philip Conway had two immense vases of Major Bonnaffon. John Hartje showed some good blooms of Appleton and a fine display of carnations, among them about a dozen seedlings. He expects to make another hit shortly in the carnation line. W. A. Klaubke and Huckriede & Son showed pot plants. The latter also had a very fine display of cut flowers, consisting of about eight varieties, among them Golden Wedding and Eaton, very fine. E. A. Nelson had a very nicely arranged table, made up of roses, carnations and chrysanthemums in the cut flower line, cyclamens, Boston ferns and Lorraine begonias representing the pot plants. Baur & Smith showed Eaton, May and Mary Hill of good quality, besides a large and beautiful display of carnations, mostly seedlings of their own raising. Smith & Young showed their violets and Bertermann Brothers made a fine display of cut flowers and plants, most artistically arranged.

Certificates were given to H. W. Rieman for his white seedling chrysanthemum, Adelia, and honorable mention for Majestic. Honorable mention was made of Stuart & Haugh's fine display of cut flowers.

H. J.

St. Louis.

The regular meeting of the Florists' Club was postponed one week, so that the next meeting will be held November 20.

The annual banquet to gardeners, florists and nurserymen, provided for in the will of Henry Shaw, will be given at the Mercantile Club November 19.

SALT LAKE CITY, UTAH.—J. L. Maxwell is very ill with a complication of indigestion, kidney and lung troubles.

GALENA, ILL.—B. F. Vandervate rented a vacant store down town for his annual chrysanthemum show and attracted a good crowd.

STAATSBURGH, N. Y.—The Pierson-Sefton Company has contracted to erect a fine palm house in the spring for the Dinsmore Estate.

DES MOINES, Ia.—Fire recently destroyed the office at the greenhouses of Frank E. Pease. The greatest loss was in the books which were consumed.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00. Subscriptions accepted only from those in the trade.

Advertisements on all except cover pages, 10 Cents a Line, Agate; \$1.00 per inch. Cash with Order.

No Special Position Guaranteed.

Discounts are allowed, only on consecutive insertions, as follows—6 times, 5 per cent; 13 times, 10 per cent; 26 times, 20 per cent; 52 times, 30 per cent.

Cover space sold only on yearly contract at \$1.00 per inch, net, in the case of the two front pages, regular discounts applying only to the back pages.

The Advertising Department of the AMERICAN FLORIST is for florists, seedsmen and nurserymen and dealers in wares pertaining to those lines only.

Orders for less than one-half inch space not accepted. Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday. Address

AMERICAN FLORIST CO., Chicago.

THIS ISSUE 76 PAGES WITH COVERS.

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THE mailing label on your paper shows when your subscription expires; when you send your renewal note that the date changes within two weeks; it will serve as your receipt.

Artificial Manures for Chrysanthemums.

M. Truffaut, as a result of his chemical investigations, says the *Gardeners' Chronicle*, recommends the use of a manure containing:

Sulphate of ammonia	30 per cent.
Sulphate of potash.....	26 per cent.
Double superphosphate containing 44 per cent of acid.....	40 per cent.
Ordinary superphosphate containing 13-15 per cent of acid.....	4 per cent.
	100

The date of Easter, 1903, is April 12.

It has been a season of successful flower shows.

It is worthy of note that Major Bonaffon, erstwhile leader of yellows, has passed out of the prize-winning class of chrysanthemums.

DORNER's Fiance, a fine light pink seedling carnation, exhibited at Chicago this week, has been sold to the Chicago Carnation Company.

WHEN cut flowers are plentiful send a box of seasonable stock to the editor of your local paper and see the nice little notice he will print in return.

THE scarcity of Manetti stocks will interfere with the grafting of Liberty roses for next season's planting; otherwise few own root plants would go in.

GROWERS of chrysanthemums should carefully note the important resolution adopted by the Chrysanthemum Society of America, with regard to sports, during the second day's proceedings at the Chicago convention.

It might not require all the millions of a J. Pierpont Morgan, but it would certainly necessitate the exercise of all his astuteness to reconcile even a small part of the varying interests and organize a "trust" in the flower trade.

CONTINUOUS advertising creates confidence. The prevailing opinion is that one cannot be constantly before the public without being found out and known for what he is. *Printers' Ink*, the little schoolmaster in the art of advertising, says the people believe in a man who can stand trial by the public.

Society of American Florists.

DEPARTMENT OF PLANT REGISTRATION.

H. Weber & Sons, Oakland, Md., register new carnation Governor Lowndes, color pure white, size three to three and one-half inches in diameter; stem strong, one to two and one-half feet during the season; odor spicy; vigorous grower but makes very little grass and will stand close planting.

The H. Dale Estate, Brampton, Ont., registers new rose Canadian Queen, a sport from Mrs. Pierpont Morgan, color shell pink; foliage dark green, clean cut; habit vigorous; free flowering.

WM. J. STEWART, Sec'y.

Chrysanthemum Society of America.

Following are the reports of the committees judging seedlings, sports and new importations.

New York, November 8.—Nathan Smith & Son exhibited Convention Hall, pure white, incurved Japanese with reflexed guard petals, scored 97 points commercial scale. E. G. Hill Co. exhibited Yellow Eaton, canary yellow, a sport from Timothy Eaton, scored 86 points commercial scale.

Chicago, November 8.—Nathan Smith & Son, Adrian, Mich., exhibited No. 5, a yellow variety which scored 75 points commercial scale.

Philadelphia, November 8.—Wm. Paul Binder, Rider, Md., exhibited Mrs. Harry V. Casey, silver pink, Japanese incurved, which scored 87 points commercial scale, 87 points exhibition scale.

Cincinnati, November 8.—Nathan Smith & Son exhibited Jersey Cream, cream, incurved Japanese, Bonnaffon type, which scored 87 points commercial scale. Algoma, by same exhibitors, pink,

Japanese incurved, scored 86 points commercial scale.

The varieties exhibited under number by John N. May on October 25 have been named as follows, No. 11, Henry Sinclair; No. 15, Amorita.

EDWIN LONSDALE, Sec'y.

American Carnation Society.

H. Weber & Sons, Oakland, Md., register Governor Lowndes, pure white, size three to three and one-half inches; a strong vigorous grower; will stand close planting, making very little grass; stem strong and from one to three and one-half feet during the season. Odor very spicy and is extremely productive.

Isaac A. Passmore, West Chester, Pa., registers Marian, white, flowers like Hill, stronger stemmed, a free bloomer from early until late and never bursts a calyx; plant of McGowan type, exceptionally strong and healthy. The same grower registers Dora, white, flowers of Queen Louise type, but better size and form and calyx never bursts; extra free bloomer and grower says it is the best mid-winter carnation he knows of; plants of strong and rapid growth, producing stiff-stemmed flowers of the best commercial value.

Baur & Smith, Indianapolis, Ind., register Indianapolis, bright pink without the least tinge of blue or salmon; flowers large, a free and early bloomer; has good form, a strong stem and never bursts; keeps the same shade of color from time of opening until it goes to sleep. Plant is a strong grower. The same growers register John Mitchell, pure white, flower very large, borne on strong stems; it has a good calyx, is a strong grower and a free and early bloomer. The same growers register Indiana Market, a pure white of good size and form, an early and heavy bloomer; never bursts and is a good grower. The same growers register Fascination, Daybreak pink, a fine even shade; a fine, large flower on a strong stem and never bursts; strong grower and an early and free bloomer.

Note.—The names Marian and Fascination have been previously used, but not being in use at this day by any known grower, both parties claimed the right and privilege to use them for a carnation of to-day.

ALBERT M. HERR, Sec'y.

New York.

MARKET SHOWS SIGNS OF RENEWED ACTIVITY.—ROSE MARKET IN BETTER FORM.—GOOD STOCK SELLING WELL IN MOST LINES.—CHRYSANTHEMUMS A DRUG.—UNWIELDY ACCUMULATION.—CLUB MEETS.—MADISON SQUARE GARDEN SHOW A FINANCIAL FAILURE.—INSTITUTE SHOW NOW ON.—NOTES.

A little more life is apparent in the cut flower trade this week. Prices have stiffened up somewhat on roses and are now back in the neighborhood of where they were when the cave-in occurred two or three weeks ago. The receipts of roses are light considering the very favorable weather which has prevailed without interruption since November 1 and any change to more wintry conditions will no doubt furnish the rose industry with a considerable backbone while it lasts. The carnation situation is practically unchanged so far as common grades are concerned, but the marked improvement in the higher grades of the fancy varieties finds a weak but noticeable response and their tendency is to walk away from the ordinary market values. The same holds

true as to violets, the great mass of which find difficulty in realizing anything beyond the fifty-cent rate, while the choicest selection of gilt-edge picking has taken a jog upward to \$1.25. As to chrysanthemums, the wholesalers cannot tell where they stand. There is no standard of value and things are badly demoralized. The bulk of the stock is far away in advance of the average of former years, much of what is coming in as ordinary grade being such as would, not many years since, have commanded recognition on an exhibition table. The unwieldy boxes, many of them large enough to pack a man in, encumber the passage ways and floor space of the wholesale markets and storage cases and cellars are packed to the limit with stock awaiting any sort of an offer.

On Monday evening the regular November meeting of the Florists' Club was held. But little interest was manifested, there being only thirty-eight members present. Reports on the outcome of the Madison Square Garden show were in order and were, as expected, very disappointing in their summing up and disheartening to its promoters. Reports on the results of the trade exhibit department and the souvenir catalogue show that the hard work done in both these directions had counted for nothing, the receipts therefrom having been swallowed up in the general expense account and the club will have to depend upon the guarantee fund for means to pay the premiums. This guarantee fund will be ample to meet any deficiency without an assessment on the club members. About one-quarter of it was paid in in cash to the treasurer at this meeting. A communication was received from Gov. Odell acknowledging receipt of the club's "coal strike" resolutions. Four applications for membership were received. Officers were put in nomination for the coming year as follows: For president, W. H. Siebrecht, Lawrence Hafner, J. H. Troy; vice-president, F. H. Traendly, A. H. Langjahr; secretary, John Young, H. A. Bunyard; treasurer, C. B. Weathered, S. S. Butterfield; trustees, Henry Hentz, Jr., C. H. Allen, W. F. Sheridan, John Birnie, J. Austin Shaw, Theo. J. Lang.

The American Institute show, in progress this week, is the best ever given by the society. Especially fine are the chrysanthemums from D. Willis James, Wm. Duckham, gardener, and H. McK. Twombly, A. Herrington, gardener. There is an extensive showing of orchids from the Roebling estate, H. T. Clinkaberry, gardener. Julius Kochrs has a fine group of decorative plants. A. Herrington won the silver cup offered for exhibits of fifty blooms of one variety.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By German, 35, single, 19 years' experience, first class worker.
WORKER, care American Florist.

SITUATION WANTED—By a gardener, on a private place; competent grower of cut flowers, plants and exhibition stock. Address
A O W, care American Florist.

SITUATION WANTED—By florist and gardener, roses, carnations, violets, mums and vegetables. First-class references; private place preferred.
M S, care American Florist.

SITUATION WANTED—By young florist, 25, single, Dane, with experience in both cut flowers and pot plants. Will go anywhere in the country.
J. L, care American Florist.

SITUATION WANTED—By experienced florist and landscape gardener; 25 years' experience. Will take charge of private or commercial place. All references.
C, care American Florist.

SITUATION WANTED—For my florist; good grower of cut flowers and pot plants; able to take full charge. German, single, age 19 years; 26 years' experience. Address
WILLIAM KNEES, Moline, Ill.

SITUATION WANTED—As working foreman either private or commercial place by single, temperate young Dane, good grower, designer and salesman. Best of references. State particulars and wages.
COMPETENT, care Am. Florist.

SITUATION WANTED—Gardener, 30, single, 6 years' experience in Germany, France and Italy; 8 years in this country; desires position around Washington, Richmond, Va., or farther south. Best of references.
GARDENER, P. O., Caldwell, New Jersey.

SITUATION WANTED—As managing foreman; thoroughly experienced in all branches of cut flower and plant business, management of help, etc., also right up-to-date in greenhouse construction and heating. First-class references from first-class growers; salary \$100 per month. Address
T, care American Florist.

SITUATION WANTED—By florist and landscape gardener; excellent grower of roses, carnations and mums; also bedding and foliage plants; able to take charge of a private estate or commercial business. Central or western states preferred. Seven years in this place, 3 years in present position; references. To be engaged now, or later; married, no family; age 32, German.
C. H., care American Florist.

WANTED—Good, all-around grower; wages \$12 per week. Send copy of reference to
W. W. COLES, Kokomo, Ind.

WANTED AT ONCE—Private gardener; single. Call
Mrs. THOS. WILCE, 708 W. Harrison St., Chicago, Ill.

WANTED—Wholesale and retail catalogues of florists and nurserymen. Address
CHAS. PRZNER, Jefferson City, Mo.

WANTED—A rose grower; will pay \$75.00 to the man who can "show me." Address
PERMANENT, care American Florist.

WANTED—Single man for general greenhouse work; must have experience. State wages, with board.
M. I. O'BRIEN, Sharon, Pa.

WANTED—Plantsmen, good potters and men for general greenhouse work; good wages, steady work.
MEMPHIS FLORAL Co., 391 Main St., Memphis, Tenn.

WANTED—At once, experienced carnation grower; single; German preferred. Address
N. ZWEIFEL, Cor. 14th St. and Groeling Ave., Milwaukee, Wis.

WANTED—Young man with experience in floral designing as assistant in store. A good berth for the right party. Apply at once.
LAKE VIEW ROSE GARDENS, Jamestown, N. Y.

WANTED—A florist, young man preferred. An opening for an interest in a well-established, paying business. Local and shipping trade. Address
DILIGENCE, care American Florist.

WANTED—An energetic young, single man of 2 years' experience with potted plants and growing carnations; must be sober and no tobacco habits. State wages. Come at once.
S. J. LONG, Petoskey, Mich.

WANTED—A working partner to take charge of four greenhouses in Philadelphia. Must have some ready money. This is a first-class opportunity for the right kind of a man.
W W W, care American Florist.

WANTED—A young man that has had some experience in greenhouse work; must be sober, honest and good worker. State wages with board, and references in first letter.
FRED. J. KING, 220 Madison St., Ottawa, Ill.

FOR SALE OR RENT—6,000 ft. of glass, dwelling, sheds, etc. Bonanza for little cash. Be quick.
DR. McFARLAND, White Hall, Ill.

FOR SALE—Horizontal tubular boiler 48x15 with plug hat dome and with 39 3/4-in. flues, very suitable for heating hot houses. Apply to
WISCONSIN BOX Co., Wausau, Wis.

FOR SALE—An old established greenhouse business; entire plant rebuilt; steam heat. With all the ground or part; also with or without residence. Situated in Cleveland, O. A bargain. Address
O K, care American Florist.

FOR SALE—FLOWER STORE—Good will of business fixtures and stock of finely located retail store on one of the most fashionable thoroughfares in the city of Chicago. A snap for energetic party. Small capital. Address
NASH, care American Florist, Chicago.

WANTED.

Young man of experience, capability and good address to take responsible position in a first-class retail florist store. None without good references and experience with refined customers need apply. Address by letter,
W. J. STEWART, 79 Milk Street, BOSTON.

WANTED..

FIRST-CLASS Carnation Grower to take care of section. Best references required as to ability, character and sobriety. Wages \$60 per month. Address **THE J. A. BUDLONG & SON CO., 171 CANAL ST., PROVIDENCE, R. I.**

WANTED.

Young man, sober, industrious and with knowledge of plants for general work in greenhouse and retail store connected therewith. Address by letter,
W. J. STEWART, 79 Milk Street, BOSTON.

WANTED AT ONCE....

ROSE PROPAGATOR who knows his business thoroughly. Must be experienced with cuttings and grafting. Give full particulars, experience in detail, references, wages expected, etc., with application and save time. Address
California Rose Co., Los Angeles, Cal.

Wanted, To Rent,

for 5 or 10 years with intention of buying, on May 1st, 1903, 20,000 to 25,000 sq. feet of glass within 40 miles or less of Chicago. No stock wanted. Hot water heat. Everything must be in good condition. Good R. R. connection necessary. Send particulars to
F P B, care American Florist.

GREENHOUSE FOR SALE,

A great opportunity for the right party. An up-to-date florist's plant, including plants, pots and everything that is used by a first-class florist. Everything in stock and flowering plants, bulbs and potting soil all ready for winter. Business established in 1878. Can give excellent reasons for selling, and purchaser may examine books. Terms will be made to suit purchaser. Address
CYRUS P. DOW, 552 Main St., LACONIA, N. H.

FOR SALE OR EXCHANGE.

Fully stocked greenhouses, 20 miles from Chicago; 25,000 feet of glass; steam heat; paying well; part cash, balance good real estate or time to right party. V J 95, Am. Florist.

GLASS FOR SALE!

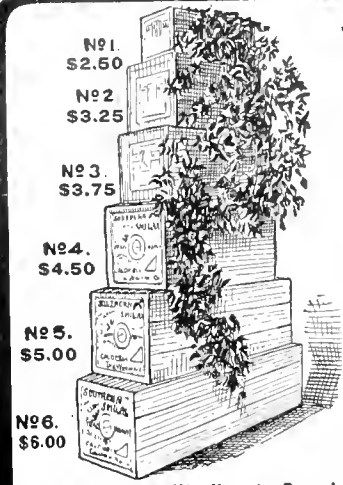
We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

FOR SALE.

7,000 sq. feet 10x14 double thick glass.
5,000 sq. feet 16x24 double thick glass.
1,000 sq. feet 7x9 single thick glass.
1,000 sash bars; 75 hot bed sash.
7,000 feet 2-inch wrought iron pipe.
1,000 feet 1-inch wrought iron pipe.
2 Gurney, 2 Lydia, 2 coil boilers.

JAMES BURNS, 41 SECOND ST. EVERETT, MASS



WHEN you want Flowers, any and all kinds, order from **DEAMUD**. He has in quantity the following:

ORCHIDS,
Valley, Violets, Beauties,
Tea Roses, Carnations,
Chrysanthemums.

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51-53 Wabash Ave., Chicago.

Caldwell's Kwality Kounts Brand
Wild Smilax now on hand.

No. 1. \$2.50
 No. 2. \$3.25
 No. 3. \$3.75
 No. 4. \$4.50
 No. 5. \$5.00
 No. 6. \$6.00

E. H. Hunt,
WHOLESALE.....
Cut Flowers
THE "OLD RELIABLE,"
76 Wabash Ave., CHICAGO.
Poehlmann Bros. Co.
Wholesale Growers of
and Dealers in **Cut Flowers**
All telegraph and telephone orders given prompt attention. 35-37
GREENHOUSES: Morton Grove, Ill. Randolph Street, CHICAGO, ILL.

THE Perfect Flower Pot Handle and Hanger



Is used for lifting plants out of jardinières, also for hanging up plants for decorations on walls, etc. Will sustain a weight of 100 lbs.

No. 1 will fit from 2 to 5-inch pots, per doz. 30c; No. 2 will fit from 5 to 8 in. pots, per doz. 40c; No. 3 will fit from 8 to 12-in. pots, per doz. 50c. Postage 10 cents extra per dozen; sample pair 10c. postpaid.

For sale by all Florists' Supply Dealers.

W. C. KRICK, 1287 Broadway, Brooklyn, N. Y.
Please mention the American Florist when writing.

Wholesale Flower Markets

MILWAUKEE, Nov. 13.

Roses, Beauty, long, per doz.	2 00@2.50
" " med. "	1.00@1.50
" " short "	.50@ .75
" Liberty.....	6.00@ 8.00
" Bride, Bridesmaid.....	4.00@ 6.00
" Meteor.....	4.00@ 5.00
" Golden Gate.....	4.00@ 6.00
" Perle.....	2.00@ 5.00
Carnations.....	1.00@ 3.00
Violets.....	.75@ 1.00
Chrysanthemums, 1.00@2.50 per doz.	
Adiantum.....	.75@ 1.00
Smilax.....	12.00@15.00
Asparagus.....	65.00
Common ferns.....	.25

PITTSBURG, Nov. 13.

Roses, Beauty, specials.....	25 00@31.00
" " extras.....	20.00@25.00
" " No. 1.....	15 00@20.00
" " No. 2.....	5 00@ 8.00
" Kaiserin.....	2 00@ 8.00
" Bride, Bridesmaid.....	2 00@ 6.00
" Meteor.....	2 00@ 8.00
" Liberty.....	2 00@ 8.00
Carnations.....	1.00@ 2.00
Chrysanthemums.....	6.00@21.00
Lily of the valley.....	2.00@ 4.00
Violets.....	1.00@ .75
Smilax.....	6.00@15.00
Adiantum.....	.75@ 1.00
Asparagus.....	35 00@40.00
" Sprengeri.....	2.00@ 3.00

THE Gardeners' Chronicle.
A Weekly Illustrated Journal.
ESTABLISHED 1841.

The GARDENERS' CHRONICLE has been FOR OVER SIXTY YEARS THE LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, the information furnished is of such general and permanent value that the GARDENERS' CHRONICLE is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, \$4 20 per year. Remittances to be made payable to H. G. COVE, OFFICE:—
41 Wellington St., Covent Garden, London, England.

CINCINNATI, Nov. 13.

Roses, Beauty.....	5.00@25.00
" " Bride.....	1.00@ 3.00
" " Bridesmaid.....	1 00@ 3.00
" " Meteor.....	2.00@ 4.00
" " Kaiserin.....	3.00
Carnations.....	1.00@ 2.00
Chrysanthemums.....	4 00@15.00
Lily of the valley.....	3.00@ 4.00
Asparagus.....	50.00
Smilax.....	12.50@15.00
Adiantum.....	1.00
Common ferns.....	.15

St. Louis, Nov. 13.

Roses, Beauty, medium stem.....	10 00@31.00
" " Beauty, short stem.....	3.00@10.00
" " Bride, Bridesmaid.....	2 00@ 6.00
" " Golden Gate, Carnot.....	2.00@ 5.00
" " Meteor.....	2.00@ 6.00
Carnations.....	1.00@ 3.00
Chrysanthemums.....	4.00@25.00
Tuberoses.....	4.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	12.50@15.00
Asparagus Sprengeri.....	1 50
" Plumosus.....	.75@ 1.00

THE NICKEL PLATE ROAD

will afford its patrons an opportunity to take advantage of low rates for Christmas and New Year holidays, by selling tickets at a fare and a third for the round trip to all points on their line, December 24, 25, 31, 1902, and January 1, 1903. Return limit including January 2nd, 1903. Through service to New York City, Boston and other eastern points. Chicago passenger station, Harrison St. and 5th Ave. For further information, address John Y. Calahan, General Agent, 113 Adams St., Chicago. 66

GALAX LEAVES AND Leucothoe Sprays.
J. G. LOVEN, MONTEZUMA, N. C.

...GEO. M. KELLOGG...
Largest Grower of... in the West. **Cut Flowers**
Give us an order and we will please you.
Our Greenhouses at PLEASANT HILL, MO.
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LONG DISTANCE PHONE AT EITHER PLACE.

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76 & 78 Wabash Ave., CHICAGO.
Wholesale Dealers and Growers of **Cut Flowers**
GREENHOUSES: HINSDALE, ILL.

The Cincinnati Cut Flower Co.,
437-439 Main St. WHOLESALE FLORISTS.
CINCINNATI, O.
Consignments Solicited.
Special Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.
Michigan Cut Flower Exchange.
Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around.
BRONZE GALAX, \$1.00 per thousand.
28 Miami Ave., DETROIT, MICH.

H. G. BERNING
Wholesale Florist
1322 Pine St., ST. LOUIS, MO.

Frank M. Ellis,
WHOLESALE FLORIST,
1316 Pine Street, ST. LOUIS, MO.
CONSIGNMENTS SOLICITED.

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A complete line of Wire Designs.

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Pittsburg, Pa.
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Won first prize on "best collection cut orchids" at the Chicago Show. All who have seen it pronounce it the finest display of cut orchids ever staged in the country.

We handle these goods exclusively in the Chicago market and can at all times supply cut orchids of choicest quality. We keep a reasonable quantity in stock; on very large orders give us at least two days notice.

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Write for our weekly price list. Thanksgiving list now ready.

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The Largest, Best Equipped and Most Centrally Located Wholesale Cut Flower House in Chicago.

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600,000 FEET OF GLASS.
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JOHN MUNO,

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Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.

Special attention given to shipping orders. Send for price list of supplies.

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Roses and Carnations A Specialty.....

WHOLESALE GROWER of

CUT FLOWERS

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Wholesale Commission Florists

Consignments solicited. 31-35 Randolph St., Chicago.

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Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.

Telephone Connections.

CLEVELAND, OHIO.

Wholesale Flower Markets

CHICAGO, Nov. 14

Roses, Beauty, 36-inch stems	3.00
" " 30 " "	2.50
" " 24 " "	2.00
" " 20 " "	1.50
" " 15 " "	1.00
" " 12 " "	.75
" " 8 to 8 " " per 100	4.00@ 5.00
" Liberty.....	5.00@12.00
" LaFrance, Chatenay.....	5.00@12.00
" Bride, Bridesmaid.....	4.00@ 8.00
" Meteor, Golden Gate.....	4.00@ 8.00
" Perle.....	4.00@ 6.00
Chrysanthemums, per doz., \$	.60@4.00.
Violets.....	1.00
Carnations.....	1.00@ 3.00
Lily of the valley.....	4.00@ 5.00
Asparagus, per string, .50	
Adiantum.....	.75@ 1.00
Common ferns, per 10'0, 1.50	.15
Smilax, per dozen, 1.50	

Holton & Hunkel Co.

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ALL OVER THE COUNTRY AT HOME AND ABROAD.

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Open from 7:30 a. m. to 8:00 p. m.

GEO. A. SUTHERLAND,
34 Hawley St., BOSTON.

Telephone 1270 Main.

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An entire floor Devoted to Stock and Manu-
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“ LETTER, unequalled for design
work. Script, any color, 3½c a
letter. Block letters, 1½c each.
The most elaborate design work
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H. BAYERSDORFER & CO., Philadelphia
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Orders for Cul Flowers of the New White Carnation.

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FILLED EVERY DAY. PRICE, \$5.00 per 100.

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WHOLESALE FLORISTS,

Daily Reports. Weekly Payments.
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2239 Madison Sq. 2034 Madison Sq. MANAGER.

GEORGE SALTFOORD,

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Fair dealing and prompt returns guaranteed.
Correspondence solicited.
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Best Quality
CUT FLOWERS
and Supplies,

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Open for Cut Flower Sales at 6 o'clock
Every Morning.....

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JOHN DONALDSON, Secretary.

Hardy Ferns...

Everything and anything in Florists'
Hardy Supplies at lowest prices. Esti-
mates on large orders on application.
Prompt delivery.

BOSTON FERN CO., 14 Brattle St.,
BOSTON, MASS.

American Florists
Always do business,
Week days and every day
Sundays and holidays,
All over the country,
At home and abroad.

Wholesale Flower Markets

BOSTON, Nov. 12.

Roses, Beauty, Edgely, extra.....	12.00@25.00
" " medium.....	6.00@10.00
" " culls.....	1.00@ 4.00
" " Bride, Bridesmaid, Meteor.....	2.00@ 3.00
" " extra.....	4.00@ 6.00
" " Kaiserin, Carrot.....	3.00@ 8.00
Chrysanthemums.....	4.00@20.00
Carnations.....	.75@ 1.50
Lily of the valley.....	2.00@ 4.00
Adiantum.....	.75@ 1.00
Asparagus.....	.50
Smilax.....	12.50@18.00

PHILADELPHIA, Nov. 12.

Roses, Tea.....	2.00@ 4.00
" " extra.....	4.00@ 8.00
" " Beauty, extra.....	15.00@ 35.00
" " firsts.....	8.00@12.00
" " Queen of Edgely, extra.....	25.00@35.00
" " firsts.....	10.00@20.00
Carnations.....	1.50@ 2.50
Chrysanthemums, per doz.,.....	1.50@3.00
Violets.....	.50@ 1.00
Lily of the valley.....	3.00@ 5.00
Asparagus.....	25.00@50.00
Smilax.....	12.50@15.00
Adiantum Farleyense.....	10.00

BUFFALO, Nov. 13.

Roses, Beauty.....	15.00@30.00
" " Bride, Bridesmaid, Meteor.....	3.00@ 6.00
Carnations.....	1.50@ 3.00
Chrysanthemums, per doz.,.....	3.00@ 3.10
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50



HARDY Cut Dagger and
Fancy Ferns.
A No. 1 quality \$1 per 1000.
Brilliant Bronze and Green
Galax, \$1 per 1000, in 5,000 lots.
Laurel Festooning, 4, 5 and
6c per yard. Orders by mail,
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Festooning, all grades. Pine Wreaths and Laurel
Wreaths, all grades for Xmas. Be sure and send
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Galax Bronze, \$1.25 per 1000; Green,
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best quality, 50 lb. case \$6.00;
35 lb. case \$4.50; 25 lb. case \$3.75. Leucothoe
Sprays, bronze and green, assorted sizes, \$1.00 per
100. Sphagnum Moss, \$1.50 per bale. Paimetto
Leaves, \$1.50 and \$2.00 per 100.

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In any quantity from \$5 to \$25 per 100.

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Roses, Carnations and all kinds of
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Are supplying the most superb stock of FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii. SEND FOR QUOTATIONS.

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Daily Receiver and Shipper of Fresh Cut Flowers.
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Special American Beauties,
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Lily of the Valley, Orchids,
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GROWERS and BUYERS make a note of this. It
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Open from 6 a. m. to 5. p. m.
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NEW YORK, Nov. 12.
Roses, Beauty, Edgely, best.....15.00@25.00
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Carnations......75@2.00
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Cattleyas.....35.00@50.00
Dendrobium formosum.....20.00@25.00
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Adiantum......50
Adiantum Peter Crowe.....1.25
Asparagus.....35.00@50.00
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RELIABLE AT ALL SEASONS.
Best Flowers.
REASONABLE PRICES.
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EDW. C. HORAN,
55 WEST 28TH STREET,
Telephone 421
Madison Square.NEW YORK.
CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.
WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

LA CROSSE, Wis.—Henry A. Salzer returned from his Idaho gold mines last week.

SLUIS & GROOT, of Enkhuizen, offer two new cabbages, Zenith (red) Enkhuizen's Glory (white).

COLD and wet weather is reported in the tuberose districts, delaying the harvesting of the crop.

FREDERICK ROEMER, of Quedlinburg, has a strain of dwarf Machez mignonette which should prove useful for pot culture.

It is currently reported that more uniform contract rates have been tacitly agreed on by most of the prominent California seed growers for the season of 1903.

DENMARK growers report unfavorable weather conditions for cabbage and cauliflower seed during the past summer and fall and estimate the crop at about fifty per cent of an average one.

RELIABLE French authorities tell us that the information contained in our foreign letter, issue of November 1, page 484, was incorrect in regard to red cabbages, these not having yielded half a crop.

REPORTS from the tuberose districts indicate that the final outcome is approximately 70 per cent of a crop, the September and October rains improving the situation, which looked unfavorable in August.

J. C. SCHMIDT, of Erfurt, is offering a number of attractive novelties in flower and vegetable seeds, among them the Long Podded American Wonder pea, which is said to have larger pods than the original variety.

VISITED CHICAGO: Lester L. Morse and W. J. Fosgate, Santa Clara, Cal.; A. Emerich, of Vilmorin, Andrieux & Company, Paris, France; John R. Horne, of the Cox Seed Company, San Francisco; J. C. Sufern, Decatur, Ill.; S. Y. Haines, Tompkinsville, Mich.

BOUQUET green picking in the Wisconsin districts has progressed steadily; prices, while a shade easier, are not materially lower because all stocks are owned on a basis of higher costs than usual and owners will not accept a loss until they are shown beyond a doubt that weather conditions will continue against them.

SAN JOSE, CALIFORNIA.—The Braslan Seed Growers Company has rented the McKissick ranch, fourteen miles south of San Jose, toward Gilroy. This consists of 450 acres of diversified soil with an inexhaustible supply of water within four and one-half feet of the surface, assuring convenience in irrigation. With this leasehold the Braslan Seed Growers Company now controls over 800 acres for growing garden seeds.

CAREFUL investigation of the holly conditions show that the trees in Delaware are but poorly berried and most of the supply will be procured from southern Virginia and possibly some from Maryland points. There will also come to market some fairly good stock from the Southwestern points, both smooth and prickly leaved. On the whole the

chances are that strictly fancy holly will command more than average prices.

The Catalogue Trade.

In a communication received some time ago, W. Atlee Burpee writes as follows on this subject: "The catalogue trade the past year showed, as did all other branches of the seed trade, a very great growth over the year previous and demonstrated conclusively to our mind that when one branch of the seed trade is good all branches are good. We do not really think that the increase in trade of local dealers is to the permanent injury of the mail trade and yet we are quite convinced that there is not the same opportunity to-day to build up a mail order seed trade that there was twenty, or even ten years ago."

Italian Seed Report.

The last winter in Italy brought milder weather than usual the spring was late and damp but the summer has been, throughout the whole of Italy, a quite abnormal one (as everywhere in Europe) and the consequences thereof are found in bad crops. Our spring commences generally with April, which is a very pleasant month and from then we can expect constant fine weather without any long interruptions. All our cultures need these conditions and if it is otherwise they are more or less a failure. For instance, seeds having been grown in low and fresh positions suffered greatly from the heavy rains which lasted until the middle of June and which were followed by periods of excessive heat, thus interrupting or spoiling the normal development of vegetation. This great excess of moisture in the beginning of the summer was quite balanced in the autumn, for during three months we were without a drop of rain. In consequence of the wet weather our winter cultures could not be brought in at the usual time and thus make room for the summer cultures which therefore had to be sown later. This delay kept back the development of many articles.

Of vegetable seeds the onion crop is very bad again. During the last five years this article has brought only losses, so that it would not be at all astonishing if its cultivation ceased altogether in Italy. Of cauliflower all foreign sorts gave a very weak crop, also the early home varieties. Lettuce yielded a crop under the average; in cer-

tain districts they succeeded better and chiefly in situation, where the famous fogs are less prevalent. The bean crop is quite unsatisfactory and principally in naturally fresh situations. Cabbage and kohlrabi, especially the fine sorts, suffered greatly by the wet winter. Look furnished an average crop, also egg plants, tomatoes, cucumbers, gourds, etc. Of tomatoes only the late sowings came to perfect development on account of the frosts on April 8 and 19, which damaged these cultures to a great extent, also beans and potatoes. Runners gave a small crop as regards quantity. The other vegetables are grown here in too small quantities to call for a special report. Agricultural seeds, like red clover, lucerne etc., gave good crops.

The crops of the principal flower seeds grown in Italy have been satisfactory, with the exception of asters, of which some varieties have yielded almost a thing. Mignonette has given a good and heavy crop of seed. Marguerite carnation has given better results than for the last three years, owing to the rainless summer and constant weather in Italy. Centaurea candidissima is bad again. Dahlias and cannas have a satisfactory standing; the excess of humidity has damaged them a little but they are still flourishing.

A Note on the Sweet Pea.

Harry Eckford first started crossing and selecting from Lathyrus odoratus and its few primary varieties in the year 1873. Though now over 80 years of age, says the *Journal of Horticulture*, he is able to fly about on a bicycle, and still offers improved novelties each year. One of Eckford's early surprises was when Sweet Pea Mrs. Sankey, a pure white flower, yielded black seeds. Before that time white flowered sweet peas gave light-skinned seeds, but crossing here again mixed up the characteristics and showed how thoroughly infusion becomes.

Cucumber Seeds, FIDDLER'S SEEDLING,

The finest cucumber for table use and for pickling. Superior to all other varieties for forcing. A prize winner and seller. House of it illustrated in AM FLORIST July 26, page 930. \$2 Per 100 Seeds.

Mrs. C. N. Richardson, Waverly, Ill. Please mention the American Florist when writing.

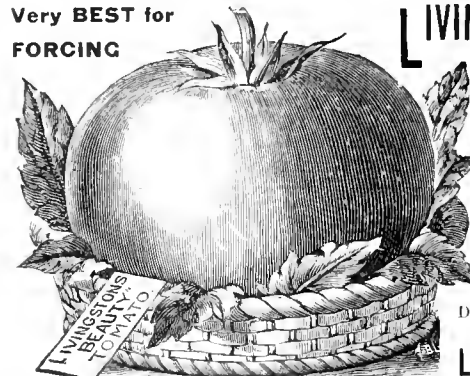
Something Doing



IN OUR LINE.	Per 100	Per 1000
Narcissus Von Sion		\$10.00
Tulips, Artus	\$.90	8.00
" Yellow Prince	1.15	10.00
" Queen Victoria .....	.80	7.00
Spiraea Japonica extra strong.	3.00	28.00
" Compacta Multiflora	3.50	33.00
" Astilboides Flor. ...	4.00	38.00

WM. ELLIOTT & SONS, NEW YORK.

Very BEST for FORCING



LIVINGSTON'S BEAUTY TOMATO.

Prof. W. J. Green, of the Ohio Experiment Station says:

"I am fully satisfied that Livingston's Beauty Tomato is the most profitable variety of all for growing under glass."

Prof. W. B. Alwood, of the Virginia Experiment Station says:

"Your Beauty Tomato was superb, and as usual, gave us magnificent fruit. We are using it now exclusively for winter forcing."

OUR OWN CHOICEST SELECTED SEED.
Pkt. 10c.; Ounce 25c.; 4 Ounces 75c.

Descriptive Catalogue, also Florists' and Market Gardeners' Wholesale List free on application.

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Over 2,000 Acres in Cultivation.

BRASLAN SEED GROWERS CO.

Growers for the Wholesale Trade Only.
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RECEIVING AND SHIPPING SEEDS.

A daily scene after the harvest at the San Jose warehouse of the Braslan Seed Growers Co.

NAMED Hyacinths

SURPLUS STOCK.

La Grandesse, Gigantea, Gertrude, King of the Blues, \$3.50 per 100; \$30.00 per 1000.

D. LANDRETH & SONS
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Cocos Weddelliana Seed

FRESH AND FINEST QUALITY.

From our own collector. Delivery early 1903. \$7.00 per 1000. \$6.00 per 1000 in 4,000 lots. Special prices on 10,000, 25,000 or 50,000 Seeds.

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GLADIOLI

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ARTHUR COWEE,
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United States Grower and Representative of G.O.P.F.'S HYBRIDS.

Strictly New England GROWN SEEDS.

SPECIALTIES—Onion (Southport Globes), Turnip Seed and Sweet Corn, Beet, Parsnip, Carrot, Cabbage. We can answer all questions without finching as to quality and where grown.

The E. B. CLARK CO., Milford, Conn.

BURPEE'S SEEDS PHILADELPHIA.

Wholesale Price List for Florists and Market Gardeners.

Francis Brill

WHOLESALE SEED GROWER.

Long Island Cabbage Seed.
 American Grown Cauliflower Seed.

And other Choice Specialties in Vegetable Seeds for the most critical trade.

Hempstead, L. I., N. Y.
 Please mention THE AMERICAN FLORIST when writing.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. LOENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

THE inquiry for Elberta peach trees continues unabated.

THE national congress of apple growers meets at St. Louis next week. Many nurserymen will attend.

THERE will be few surpluses for nurserymen to wrestle with when the fall shipping season ends.

IRVING JAQUAY, of Benton Harbor, Mich., has paid \$16,000 for 295 acres of land three miles south of Buchanan, for nursery purposes.

THE Elizabeth Nursery Company, of Elizabeth, N. J., E. Runyan, president, has enlarged its capital to \$100,000, of which \$58,000 is paid in.

HIGH rates are driving the nurserymen to the consideration of a plan of mutual insurance somewhat on the order of the Florists' Mail Association.

THE prospects are for several pronounced shortages before the end of the spring planting season. Peach, cherry and plum trees are sure to be higher.

It is said that conservative nurserymen are already exercising considerable caution in the booking of orders for certain hybrid perpetual roses for spring delivery.

SEVERAL nurseries have had storage cellars or sheds since the trade was in its infancy, but the majority of nurserymen are only now awaking to the advantages afforded.

FOR apple growers in the northwest Patten's Greening is recommended as reliably hardy. It is a seedling of Duchess and the Rhode Island Greening, raised by Charles G. Patten, of Charles City, Ia.

San Francisco.

HORTICULTURAL SOCIETY HAS VERY SUCCESSFUL SHOW FOR MEMBERS AND THEIR FAMILIES.—GOOD BLOOMS EXHIBITED.—TRADE FAIR BUT CHRYSANTHEMUMS OCCUPY MOST ATTENTION.

At the Pacific Coast Horticultural Society's chrysanthemum show November 1 Sidney Clack, of Menlo Park, exhibited Timothy Eaton, the best ever seen here. It was a surprise, as Mr. Clack has not sent his stock to the San Francisco market, but has shipped every one of 5,000 blooms north and south of this city. H. Goertzheim, of Redwood City, had the best yellow at the meeting. Col. Appleton, the stems stiff and measuring seven feet in length, with perfect flowers almost ten inches in diameter. Mr. Carbone received first for a vase of mixed varieties. On outdoor-grown stock Wm. Kittlewell, gardener to G. A. Pope, received seven prizes on blooms almost as perfect as the indoor ones. The Golden Gate Park made a very creditable showing of outdoor flowers not for competition. H. Pottet had a couple of vases of Bonmaffon and Daillidouze, and Wm. Munro and John Davie, of Burlingame, had good stock. The hall was certainly much too small for the crowd that came to see the show. Next to the show hall was the entertainment hall, also crowded to the doors. A nice programme was provided, followed by refreshments and dancing.

Chrysanthemums of any color, quality and quantity are at hand, driving all other flowers into the background. But after another couple of weeks the carnation and rose growers will breathe a little easier. Appleton and Eaton are the leading chrysanthemums in size and price, \$3 per dozen. Ordinary stock sells down to 50 cents per dozen, to say nothing about the Chinese stock from outdoors. One sometimes wonders where all these flowers go to, but go they will as long as business keeps up as it is at present.

H. Goertzheim, of Redwood City, has his houses in fine shape and the chrysanthemums are attracting many visitors. This may also be said of S. Clack, of Menlo Park. Domoto Bros. are the leaders across the bay in that line of stock, some six or seven houses being devoted to this flower. Mr. Domoto says he will be at the next show.

F. Abe, of Berkeley, is home from a trip to Europe and is greatly improved in health. He found on his return that his better half can manage a nursery as well as himself, for the stock, mostly American Beauties, never looked better than at present.

Fick & Faber's new seedling carnation, Miss Louise Faber, is commencing to bloom, but the stems are not as long yet as they were last year. Orders for a little over 15,000 cuttings have been booked so far.

F. Young's stock of American Beauties is in prime condition and a good cut is expected for Christmas.

GOLDEN GATE.

LANCASTER, KY.—J. C. Thompson has started in ginseng growing, having bought a stock of 6,000 plants.

NILES, MICH.—The present Michigan Central greenhouses here will be replaced by a new range early next spring.

DES MOINES, IA.—W. L. Morris has built up his establishment until it now comprises 55,000 feet of glass. He reports trade fair.

OAKLAND, CAL.—H. M. Sauborn reports that business is good on the Pacific coast, most dealers finding it much better than a year ago. Stock is plentiful and good. The wholesale price of violets is only 75 cents per dozen bunches of 100 flowers each.

THE GLENWOOD NURSERIES

EVERGREENS.

The largest and most complete assortment of SPECIMENS, sheared and of natural form. All root pruned and carefully grown.

EVERGREEN TREES, EVERGREEN SHRUBS and VINES for window boxes and Winter decorations.

DECIDUOUS TREES.

20,000 Oriental Plane Trees, 6 to 14 feet.

25,000 Oaks, in variety, 6 to 14 feet.

100,000 Maples, in variety, 8 to 18 feet.

Beech, Birch, Ash, Elms, Ginkgo, Poplars and other leading varieties.

HEDGE PLANTS.

200,000 California Privet, 1 to 4 feet. The finest grown.

Osage Orange, Berberis Thunbergii, Althaea, etc.

SPECIAL QUOTATIONS TO LARGE BUYERS. NEW TRADE LIST NOW READY. DESCRIPTIVE ILLUSTRATED CATALOGUE ON APPLICATION.

FLOWERING SHRUBS.

15,000 Hydrangea Paniculata Grandiflora, 1 to 4 feet.

5,000 Deutzias (Gracilis and Lemolnel), for forcing.

A complete assortment of Shrubs of all sizes, including quantities of large shrubs for immediate effect plantings, as well as smaller grades.

CLIMBING VINES

5,000 Ampelopsis Veitchii, 1 and 2 years.

20,000 Hail's Japan Honeyuckle.

20,000 Clematis Paniculata.

English and Irish Ivies, Wlatarias and other vines.

Crimson Rambler, Wichuriana and other climbing and running roses.

THE WM. H. MOON CO., Morrisville, Pa.

60 MILES FROM NEW YORK.

30 MILES FROM PHILADELPHIA.

CALIFORNIA PRIVET.

Any Size Desired up to 6 Feet.

Contracts for immediate or future delivery solicited.

Very attractive prices on car load lots, either of a single size or assorted sizes.

J. T. LOVETT, LITTLE SILVER, N. J.



Almost half a century of fair dealing has given our products that prominence which merit deserves. We still offer everything of the best for

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Correspondence solicited. Catalogue and Trade List free. 49 years, 44 greenhouses, 1000 acres.

THE STORRS & HARRISON CO.,

Painesville, Ohio.

E. C. AMLING

WANTS YOUR BUSINESS



CONSIDERABLE number of buyers have found that there is no other source of supply, so dependable as Amling's on all matters which go to make satisfactory service in wholesale cut flowers.

WE HANDLE one of the largest cuts of Beauties in this market, averaging best goods the season through. The same applies to Tea Roses, Brides, Maids, Meteors, Gates, Ivory, La France, Cusin, etc. We have all grades, and on Brides and Maids certainly the best in Chicago. Carnations, too, all varieties, large supplies from best growers.

WHILE IT IS BUSINESS for every day that we seek, we want to impress the whole trade with the fact that this is the place to look for specialties. We at all times have the seasonable stock for choicest work. Best Cattleyas, Choicest Valley, Asparagus, Adiantum and an unlimited supply of Smilax.

WE HAVE, and always aim to have, besides the stock to be found in the ordinary commission house, various seasonable specialties to be found nowhere but here. Such an item during the present month has been the cut blooms of the sensational new chrysanthemum, Mlle. Marie Liger.

WE CATER especially to the shipping trade, finding it to give a steadiness to demand in times of large supply which compensates for the effort necessary to meet requirements in time of scarcity. Our space is large, our facilities adequate to all needs in the line of prompt service and the experience of our employes is a guarantee of careful selection, packing and shipment.

WE HAVE TWO long distance telephones and suggest their use in cases where an answer is required. Usually night rates (after 6 p. m.) for telephoning are not higher than telegraph rates for message and reply. Send for our weekly price list, mailed free.

E. C. AMLING,

THE LARGEST, BEST EQUIPPED AND MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO

32-36 RANDOLPH ST. Long Dis. Phones 1999 and 1977 Central. CHICAGO, ILL.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

At Chicago.

In the league games on November 11 the McKellar & Winterson team defeated the Retailers three straight, and the Vaughan's Seed Store team beat the Wholesalers two out of three. The ladies played three games. Following are the scores:

McKellar & Winterson.....	1st	2d	3d	T1
Winterson.....	122	176	154	452
Sterrett.....	130	135	181	446
McCormick.....	111	147	105	363
Pruner.....	132	174	149	455
Balluff.....	171	191	168	530

Total.....	666	823	757	2246
RETAILERS.....	1st	2d	3d	T1
P. J. Hauswirth.....	121	151	137	409
Huebner.....	147	150	142	439
Kreitling.....	98	103	188	389
L. Winterson.....	162	95	131	388
Asmus.....	176	102	142	420

Total.....	644	601	650	1895
VAUGHAN'S S. S.....	1st	2d	3d	T1
C. Hunt.....	140	111	164	415
Bollnow.....	104	124	152	380
J. Roy.....	121	139	113	373
Nagle.....	133	121	120	374
Henderson.....	94	90	169	353

Total.....	592	585	718	1895
WHOLESALEERS.....	1st	2d	3d	T1
Geo. R. Scott.....	142	146	124	412
W. Asmus.....	81	65	76	222
Brady.....	119	85	103	307
Newett.....	151	138	125	415
Randall.....	124	88	96	308

Total.....	617	522	525	1664
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LADIES' GAME.

Player.....	1st	2d	3d	T1
Anna Kreitling.....	77	65	87	229
Mrs. Winterson.....	68	167	106	341
Mrs. W. Kreitling.....	75	94	107	276
Elsa Hauswirth.....	68	54	70	192
Mrs. Hauswirth.....	75	74	112	261
Mrs. Brady.....	50	61	43	154
Mrs. Hunt.....	76	56	55	187
V. Kreitling.....	95	108	106	309
Mrs. Asmus.....	100	61	59	220
Mrs. Balluff.....	71	60	91	222
Mrs. Burnham.....	—	65	65	130

On Wednesday evening, November 12, the St. Louis visitors and the Chicago bowlers met in the contest which is sure to ensue whenever a delegation from either town visits the other. St. Louis made a poor showing, although the third game was a tie, the roll-off being inhospitably appropriated by the hosts. Following is the score:

St. Louis.....	1st	2d	3d
Benneke.....	130	148	160
Weber.....	151	143	135
Miller.....	135	123	151
Steidle.....	88	—	—
Wilson.....	—	116	166
Kuehn.....	121	141	162
Total.....	625	634	774

Chicago.....	1st	2d	3d
Hauswirth.....	176	146	159
Kreitling.....	138	133	154
Asmus.....	176	169	178
Kohlbrand.....	140	114	142
Balluff.....	156	160	141
Total.....	746	722	774

Minneapolis.

DARK WEATHER REDUCES ROSE RECEIPTS. —MARKET NEARLY NORMAL.—VARIOUS JOTTINGS OF LOCAL INTEREST.

The cut of stock is again normal and good prices are secured. Last week the supply of roses was heavy but continued dark weather has reduced it somewhat. Carnations still remain in good supply.

Violets are abundant and there does not seem to be the call of former days. Chrysanthemums, Eaton, Bonaffon, Appleton, Morel, Ivory and other choice varieties, can be had in any quantity, but they have not affected the sale of other stock so much as usual this season. Wm. Donaldson & Company are cutting some choice smilax in quantity.

Carl Johnson, of the Powers Mercantile Company, reports a good trade, above that of last year. The call is for the best of stock.

A number of the prominent florists took part in the charity ball decoration at the West Hotel last week.

E. Nagel & Company have been very successful with their chrysanthemum cut. C. F. R.

Montreal.

CLUB CHANGES ELECTION NIGHT.—A BANQUET PLANNED.—A BIG SHOW FOR NEXT YEAR.—LOCAL NOTES.

The Florists' and Gardeners' Club will hold its election of officers at the first meeting in December and the annual banquet on the night of the installation, the first meeting night in the new year. There was a little private chrysanthemum show at the last meeting, November 3, some good specimens being shown. The principal exhibitors were Jos. Bennett, with a vase of fine Carnot; P. McKenna & Son, with fine Idavan and Orizaba; C. Craig, with some well grown plants. A proposition to hold a first-class chrysanthemum show next year was adopted and several members have already promised to grow specimens for it. At the close of the meeting Fred. Bennett read a witty paper upon his trip to the convention at Hamilton.

Trade is not bad. Chrysanthemums are going well and the early varieties brought better prices than in past years. A summer week in autumn has improved the roses and carnations, in quality and quantity. Violets are scarce yet. In general all the retailers report good business.

Fred. Bennett has taken the position of secretary-treasurer of the Lachine

Horticultural Society, in place of C. A. Smith.

Hall & Robinson have rebuilt and replanted since their recent fire.

E. Mepsted, of Ottawa, was a visitor last week. G. V.

NEENAH, WIS.—Louis Otto was recently injured in a collision between a Northwestern train and street car. He is improving.

BALTIMORE, MD.—W. D. Hamilton, head gardener at Druid Hill Park, has had excellent success with his chrysanthemums this year. It is estimated that on the opening day of the annual exhibition, 20,000 people visited the conservatory.

W. A. HAMMOND,
Richmond, Va.
Wholesale Florist.
Roses, Carnations,
Chrysanthemums, Etc.

WHOLESALE Cut Flowers
Florists' Supplies, Seeds, Etc.
Galax and Leucothoe, Wild Smilax.
Special attention given to shipping orders.
Long distance 'Phones, Main 584 and 748.
J. M. McCullough's Sons
316-318 Walnut St., Cincinnati, O.

White Carnations

WILL soon be in demand when 'mums are gone. **MURPHY'S WHITE**, the coming commercial Carnation, is standing the test on long shipments to Chicago, Buffalo, Pittsburg and St. Louis. It is a bloomer or we could not keep up the supply we have since August 15th to date, and still plenty of buds in sight for the Holidays. You will not make a mistake in stocking up on this variety.

ROOTED CUTTINGS. \$6 per 100; \$50 per 1,000; \$45 per 1000 in 5,000 lots and \$40 per 1000 in 10,000 lots.

We are Headquarters for Carnation Blooms in Cincinnati. Try us on a shipment. Write or wire

WM. MURPHY, 130 East Third Street, CINCINNATI, O.
Long Distance Phone 4411 Main.
WHOLESALE CARNATION GROWER.

**SEND YOUR
THANKSGIVING ORDER
— TO —
WIETOR BROS.**

**Wholesale
Growers of Cut Flowers**

51 WABASH AVE.,

CHICAGO, ILL.



WITH one of the largest ranges of glass in the world, devoted exclusively to cut flowers, we produce first grade stock in such large quantities that there is no question of our ability to fill orders at all times. Stock picked out for all shipping orders before sales are made to city buyers.

Get your order in early and you'll get what you want.

**BEAUTIES,
ROSES, CARNATIONS,
CHRYSANTHEMUMS.**

Our stock was never finer than at present and we have good cuts on. Beauty is our specialty, of which we grow 60,000 plants, 50,000 Brides, Maids and Meteors; including Liberty, La France and Ivory of choicest quality. 160,000 Carnation Plants on benches, all best sorts. Buy of the grower and get fresh stock at lowest market rates.

Thanksgiving Price List

Subject to change without notice.

American Beauty	Per doz.
Extra long stem.....	\$5.00 to 6.00
24-inch stem.....	3.00 to 4.00
20-inch stem.....	2.50 to 3.00
15-inch stem.....	2.00
12-inch stem.....	1.50
8-inch stem.....	1.00
	Per 100
Bride	6.00 to 8.00
Bridesmaid	6.00 to 8.00
Meteor	6.00 to 8.00
Golden Gate	6.00 to 8.00
Perle	4.00 to 6.00
Ivory	5.00 to 10.00
Liberty, per doz	6.00 to 15.00
La France	6.00 to 12.00
Carnations, fancy	4.00
ordinary.....	2.00 to 3.00
Mums, fancy, per doz	2.50 to 3.00
ordinary, per doz.....	1.50 to 2.00

**All Other Stock at Lowest
Market Rates.**

WIETOR BROS., 51 Wabash Ave., Chicago

Terre Haute, Ind.

GROWERS HAVE EXCELLENT RESULTS WITH CHRYSANTHEMUMS.—ALL PLACES IN MODERN SHAPE.—JOTTINGS OF VARIOUS DOINGS.

At no time have the local growers had better success with chrysanthemums. While a few of the newer sorts are grown to single stem the standards are generally grown to produce two and three blooms to the plant, and such flowers sell readily at \$1.50 and \$2 per dozen. Timothy Eaton for white and Col. Appleton for yellow seem to be the favorites, although Chadwick and Bonnafon are by no means relegated to back seats. Golden Wedding shows up equally well and Vivian-Morel is grown profitably in quantity. Polly Rose is becoming more popular and from all indications it will be grown extensively another year.

Lawrence Heintz, the dean of the craft, has his houses in fine condition, his general stock clean and thrifty. Among his carnations Crane is decidedly in the lead, being ahead of any of the other scarlets on the place. Ethel Crocker does equally well, being best among the pinks here. Flora Hill, White Cloud and Queen Louise are grown and it is a toss-up which of the three pays best. Among ferns were a lot of Nephrolepis davallioides furcans in 6-inch and 7-inch pots which ought to sell at sight.

Cowan Bros. Company have rebuilt three of their houses besides overhauling their entire range. The old office has disappeared, a new one, modern in all its appointments, taking its place. With a range of new, well stocked houses and with plenty of business in sight, the Cowans have nothing to grumble at.

F. Wunker & Sons, as usual, have their place in apple-pie order. Their roses and carnations are doing splendidly and if there is any favorite among their carnations Marquis is the one, with Lawson as a close second.

Otto Heintz has, during the past summer, removed and rebuilt his greenhouses, having a fine range. He grows a general stock of cut flowers and bedding plants to meet the requirements of his retail trade, which has been good all along.

Fred. Heintz is now installed in his new store on South Seventh street.

Alderman Graham's stock is in good shape and trade brisk. NOMS.

BUCKLEY'S November Special.

Smilax Do you need Smilax? If so, forward your order at once and we will furnish you extra fine 2 1/4-inch at 50c per 100; \$5 per 1000.

Geraniums The leading and best bedders, Jean Viaud (the pink novelty), \$2.00 per 100. S. A. Nutt (crimson), Alphonse Riccard (scarlet), E. G. Hill, Beante Poitevine (salmon), Mme. Janlin, \$1.50 per 100; \$14.00 per 1000.

Verbenas Our 20th Century Collection, 25 new mammoth varieties, all labeled, strong plants from 2 1/4-inch, \$1.50 per 100; \$12.50 per 1000.

Asp. Sprengeri Strong, 2 1/2-inch, \$2.00 per 100; 2-inch, \$1.25 per 100; \$10.00 per 1000.

Petunias Ten novelties from Dreer's latest sets, strong R. C. \$1.25 per 100.

Feverfew LITTLE GEM, rooted cuttings, 75 cents per 100. 2-m. \$1.25 per 100; 2 1/2-in., \$2.00 per 100.

Marguerites CHRYSANTHEMUM FRUTESCENS, both white and yellow, \$1.00 per 100.

Salvia Two best: St. Louis and Bonfire, 75 cents per 100.

The W. T. Buckley Plant Co., Springfield, Ill.

Please mention the American Florist when writing.

Thanksgiving 'Mums, Valley, Violets.

Thanksgiving Price List.

SUBJECT TO CHANGE WITHOUT NOTICE.

BEAUTIES		Per doz.	Per 100
24-inch and over billed accordingly.			
20-inch stems		\$2.50 to \$3.00	
15-inch stems		1.50 to 2.00	
12-inch stems		1.20 to 1.50	
Short stems.....		Per 100	
		\$8.00	
BRIDES		4.00 to 8.00	
BRIDESMAIDS		4.00 to 8.00	
METEORS		5.00 to 10.00	
PERLES		3.00 to 6.00	
ROSES , our selection.....		3.00	
Chrysanthemums		10.00 to 20.00	
CARNATIONS		\$1.00 to \$2.00	
CARNATIONS , fancy... ..		3.00 to 4.00	
VIOLETS		1.00 to 1.50	
VALLEY		3.00 to 5.00	
ASPARAGUS.....		.60.00 to 75.00	
ADIANTUM		1.00 to 1.25	
SMILAX , per doz		1.25 to 1.75	
GALAX , g'n, per 10 0, \$1.....		.20	
" bz., " \$1.50.....		.20	
FERNS , per 1000, \$1 50.....		.20	
Asparagus Sprengeri		2.00 to 3.00	
Asparagus Plumosus		2.00 to 3.00	
" " strings.....		.50 to .75	

Kennicott Bros. Co.

Wholesale Commission Florists,

40-42-44 Randolph Street, CHICAGO, ILL.

Geraniums ROOTED CUTTINGS.

S. A. Nutt, La Favorite and M. Bruant, \$1.25 per 100; \$11.00 per 1000. Perkins, Poitevine, Riccard, Heteranthe, E. G. Hill, etc., \$1.50 per 100; \$12.50 per 1000. Jean Viaud, \$2.00 per 100. The above all well rooted. Express prepaid in United States.

Des Moines Plant Co, 513 38th Street, Des Moines, Iowa.

PANSY

GIANT FLOWERING, mixed, \$3.00 per 1000.

VIOLETS

Cuttings from sand, \$1.50 per 100; \$12.50 per 1000. Express prepaid.

LOOMIS FLORAL CO. LOOMIS, CALIFORNIA.

And
Now
Comes
Thanks-
giving.



GET
READY.

You Need Not Worry!

this year as to your supply or its quality if you will place your interests in our hands. We have at all times a full supply of everything in cut flowers that you will require for any possible occasion. NOW is the time to place order for regular shipments.

Violets and Am. Beauty Roses

Are our Leaders. Orchids and Adiantum Farleyense,
BRIDESMAID, BRIDE and Liberty Roses.
CARNATIONS, Chrysanthemums.
Asparagus, Ferns, Smilax.

Wm. GHORMLEY

Wholesale. Commission.

57 West 28th Street, NEW YORK.

Telephone 2200 Madison Square.

GOOD HOLLY

Will be Extremely Scarce This Year.

BUYERS who want their usual supply of good quality Holly **SHOULD GET THEIR ORDERS IN EARLY.** Our prices for this year are \$5.00 per single case and \$4.50 per case in five case lots. On larger quantities, write for special figures. Our rule is to replace any cases that turn out unsatisfactorily. We cut in a new district each year and our stock is invariably the best in this market. We give, however, no guarantee on Holly to be delivered before Dec. 18.

Our MISTLETOE will be of the usual choice grade, covered with berries, 50 cents per pound. Send instructions as to time and manner of shipment and same will be obeyed.

N. F. McCarthy & Co. 84 Hawley St., BOSTON, MASS.

Established 1878.Phone Central 1751.

E. H. HUNT,

76-78 Wabash Ave., ...CHICAGO.

We Sell Wholesale Only.

OUR CUT FLOWERS are known and appreciated by a large number of customers, and we make every endeavor to please them by filling their orders **on time, complete,** and with the **stock** they want. Can you ask for more? Our price list cheerfully sent **each** week if wanted. Remember we have a complete stock of all seasonable flowers.

Most of the readers of the AMERICAN FLORIST know the "House of Hunt," and know we are the "Old Reliable" when flowers are needed.



OUR WILD SMILAX CANNOT BE EXCELLED
EITHER IN PRICE OR QUALITY.



We are doing a large and

CONSTANTLY GROWING

shipping business in
wholesale

CUT FLOWERS

without making any great fuss about it. Probably this is because we are giving the buyers better satisfaction than they can get elsewhere.

WE WOULD LIKE TO HANDLE YOUR THANKSGIVING ORDER.

A. L. Randall, 4 Washington Street, **CHICAGO.**

I MAY ALSO STATE THAT WE ARE NOW HEADQUARTERS ON AMERICAN BEAUTIES.

ARE YOU looking for Choice Roses? If you are you won't miss it by sending us your order. See below what the Judges think of our Stock. But it is not alone in Roses that we are strong. Give us a trial on other stock.

**Choice Carnations,
Violets, Valley,
Chrysanthemums,
and EVERYTHING ELSE in SEASON**

HERE IS THE JUDGES' REPORT:

At Kansas City, 4 entries---2 Firsts
and 2 Seconds.

At Chicago, 6 entries,

50 Beauties, First.
25 Beauties, First.
100 Maids, First. This won special prize
as best vase of roses
in show.

100 Brides, First.
40 Brides, Second.
40 Maids, Second.

Having enlarged and remodeled our salesroom, we are now better equipped than ever to handle our constantly increasing business. **DON'T FORGET OUR NUMBER.**

Bentley & Co.

Greenhouses, New Castle, Ind. Salesroom, 35 Randolph St, Chicago.

Send in your
Thanksgiving Orders Early
for

Asparagus Plumosus Nanus.

Good heavy strings
50 cts. each.

W H. ELLIOTT, Brighton, Mass.



**WEILAND
RISCH**

WHOLESALE GROWERS
AND SHIPPERS OF

CUT FLOWERS

59 WABASH AVE.

CHICAGO U.S.A.

PRICE LIST

THANKSGIVING.

AMERICAN BEAUTY.	Per Doz.
Extra long stems	\$5.00 to \$6.00
30-in. stem	4.00
24 "	3.00
20 "	2.00
15 "	1.50
12 "	1.00
Short, per 100	\$4.00 to 6.00
	Per 100
Brides, fancy	\$8.00
" select	6.00
" ordinary	4.00
Maids, fancy	8.00
" select	6.00
" ordinary	4.00
Golden Gates, fancy	8.00
" select	6.00
" ordinary	4.00
Meteors, fancy	8.00
" select	6.00
" ordinary	4.00
Perle, select	6.00
" ordinary	4.00
Carnations, select	4.00
" good stock	\$2.00 to 3.00
Mums, large, per doz.	3.00 to 4.00
" good, per doz.	1.50 to 2.50
Violets	1.00
Valley	4.00 to 5.00
Smilax, per doz.	1.25 to 1.50
Asparagus, per string	.50 to .75
Adiantum	.75 to 1.00
Feins, per 1000	\$1.50 .15
Galax, per 1000	\$1.25 .15
Wild Smilax	at lowest market rates.

Prices Subject to Change
Without Notice.

PETER REINBERG

51 Wabash Ave.
CHICAGO, ILL.

Largest Grower of Cut Flowers in the World.

Headquarters for Carnations and
Choice Roses of All Varieties,

INCLUDING, BESIDES THE STAPLES,

Liberty, Chatenay, Sunrise

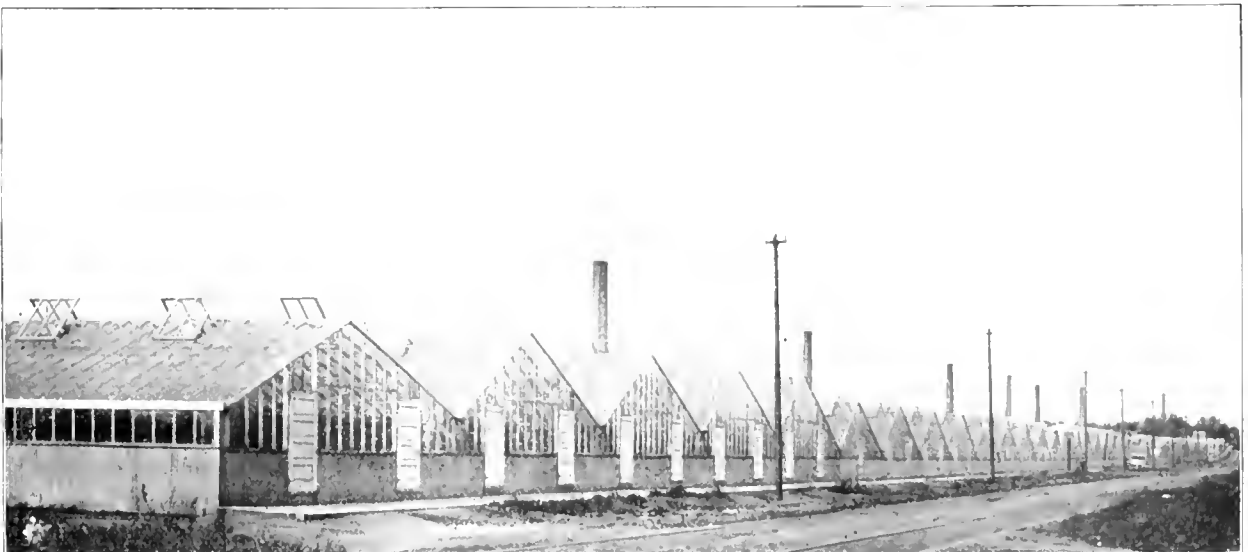
BEAUTIES	Per doz.
Extra select	\$6.00
36-inch stems.....	5.00
30-inch stems.....	4.00
24-inch stems.....	3.00
20-inch stems.....	2.50
15-inch stems.....	2.00
12-inch stems.....	1.50
Short stems.....	1.00
Bride	\$6.00 to 8.00 per 100
Maids	6.00 to 8.00 per 100
Meteors	6.00 to 8.00 per 100
Golden Gate	6.00 to 8.00 per 100

Thanksgiving Price List.



SUBJECT TO CHANGE
WITHOUT NOTICE.

	Per 100
Chatenay	
Best grade.....	\$8.00 to 10.00
Good grade.....	4.00 to 6.00
Sunrise	4.00 to 8.00
Liberty , long	12.00 to 15.00
medium.....	8.00 to 10.00
short	4.00 to 6.00
Ivory	8.00 to 10.00
Perle	4.00 to 8.00
CARNATIONS	2.00 to 3.00
Fancy.....	4.00



"The Greenhouses of Peter Reinberg extend for five blocks along Robzy street, in Chicago."—Account in Am. Florist, Nov. 1, 1902.

NO DISAPPOINTMENTS FOR THOSE WHO ORDER FROM US.

Highest Quality and Most Uniform Grades of
All Desirable Cut Flowers.

YOUNG & NUGENT

THE MOST EXTENSIVE SOURCE OF SUPPLY IN NEW YORK.

THOROUGH BUSINESS METHODS IN EVERY DEPARTMENT.

THE CHOICEST FLOWERS THAT THE BEST GROWERS CAN PRODUCE.

These unsurpassed facilities enable us to give out-of-town customers prompt and satisfactory service.

NO EXTRA CHARGE FOR PACKING.

42 WEST TWENTY-EIGHTH STREET,
NEW YORK.

PRICE LIST ON APPLICATION.

TELEPHONE 2065 MADISON SQ.

FINE BEAUTIES

SELECT ROSES, A No. 1.

SELECT ROSES.

ROSES, Seconds.

CHOICE CARNATIONS, all the Standard Sorts

CHRYSANTHEMUMS.

VIOLETS, VALLEY.

ASPARAGUS.

ADIANTUM.

SMILAX.

FERNS.

J. A. BUDLONG

WHOLESALE GROWER AND SHIPPER OF CUT FLOWERS,
37-39 Randolph St.



Special attention given to shipping orders. We can fill your orders when others fail. When you fail to get satisfaction elsewhere, just give us a trial. You'll find our service prompt. Remember we make no charge for "P. & D."

ON ORDERS OVER \$3.00.

Store open from 7:30 a. m. to 6:00 p. m. Sundays and holidays to 12:00 m.



Thanksgiving orders booked now. Write for special prices

WE ONLY HANDLE THE STOCK WE GROW AND BY BEING

SPECIALISTS

IN THE FOLLOWING ITEMS IT IS EVIDENT THAT WE CAN SERVE YOU BETTER THAN THOSE HANDLING GENERAL LINES OF ALL KINDS OF STOCK.

- AMERICAN BEAUTIES.** We have planted 50,000 plants in new houses built especially to grow Beauties.
- BRIDES, BRIDESMAIDS,** Liberty, Meteors, Perles, Kaiserin, Marquise Litta, Carnots, 100,000 plants and they are fine. We have disbudded them right along and shall have an extra choice lot of flowers.
- FANCY CARNATIONS,** Mrs. Lawson, Prosperity, Lorna, Norway, Marquis, Morning Glory, Crane, America, White Cloud, Gold Nugget, Joost and Hill, 90,000 plants. This is the finest stock of all fancies in this country.
- EASTER LILIES,** 30,000 extra select fine cold storage bulbs. We have Lilies by November 1st, and then steadily on till June.
- GREENS.** We have 12,000 Asparagus Plumosus, 6,000 Sprengeri, 12,000 Smilax and three houses of Maiden Hair Ferns.
- BUY YOUR FLOWERS** direct from the grower and thereby get better and fresher stock and save the rehandling charges of the middlemen.

Timothy Eaton Stock Plants, \$10.00 per hundred,
\$1.50 per dozen. Finest large White Mum grown

BASSETT & WASHBURN,

GREENHOUSES

Hinsdale, Ill.

L. D. PHONE, HINSDALE 10.

STORE

76 and 78 Wabash Avenue, CHICAGO.

L. D. PHONE, CENTRAL 1457.

EVERYTHING....

FOR Thanksgiving

Write us for special list on Cut Flowers, Novelties, Supplies, etc.

Mckellar & Winterson,

45-47-49 Wabash Ave., CHICAGO.

John I. Raynor,

Cut Flowers, Wholesale Commission.



BEST GRADES of American Beauty, Bride, Bridesmaid, Liberty Roses; Lawson, Prosperity, Norway, Bradt, Crane, Roosevelt and other popular Carnations; Lily of the Valley, Narcissus and all bulbous stock in season; Chrysanthemums, Violets, special Adiantums.

49 West 28th Street, NEW YORK CITY.

TELEPHONE. 1998 MADISON SQUARE.

For THANKSGIVING TRADE.

BEGONIA GLOIRE DE LORRAINE,

Fine specimens from \$1.50 to \$2.00. Full of blooms.

PANDANUS VEITCHII,

Finely colored specimens from \$1.00 to \$4.00 each.

BEGONIA GLOIRE DE LORRAINE,

2-inch pots, \$15.00 per 100.

J. A. PETERSON,

McHENRY AVENUE, WESTWOOD,

CINCINNATI, OHIO.

Critical Buyers

NEEDED choice selected flowers can have regular or special shipments of **Fancy Stock** such as cannot be procured elsewhere, by ordering from _____

Thomas Young
43 West 28th Street,
 _____ **NEW YORK CITY.**

OUR stock does not win prizes. **IT** wins customers and that is what **DEAMUD** is here for. Now hold on, read the rest! Our list will not be complete without you. We are getting the

BEST Valley, Beauties, Brides, Meteors, Maids, Liberty, Golden Gate, Ivory, Carnations, **IN QUANTITY.**

VIOLETS, single and double.

Adiantum, Smilax, Asparagus, Fancy Ferns, Galax, Leucothoe and WILD SMILAX.

J. B. DEAMUD,
51 and 53 Wabash Ave., Chicago.

Washington.

RETAILERS MAKING FINE SHOWINGS OF CHRYSANTHEMUMS.—GOOD BUSINESS IS EXPECTED.—WHITE HOUSE GARDENER RELIEVED.

Chrysanthemums have the sway now and everybody is making as much display with them as possible. J. H. Small & Sons had their opening last Thursday, and showed a number of fine blooms and pot plants, the walls, covered with oak branches, making a fine contrast with the bright chrysanthemums. A collection of first prize winners at the New York show, by D. Willis James, Wm. Duckham, gardener, attracted much attention.

A. Gude & Brother opened their show November 10. In the window they have a large horseshoe of yellow chrysanthemums, horsewhips and red ribbons. They have a fine lot of Timothy Eaton, Col. D. Appleton, Major Bonnaffon, White Bonnaffon, Mrs. Perrin and Maud Dean. Their range of rose houses is in fine condition, American Beauty and Bridesmaid are extra fine.

Henry Pfister has been relieved from duty at the White House conservatories, where he has been in charge since the Johnson administration. He has superintended all the floral decorations at the White House.

J. Louis Loose has his store decorated in yellow. In the front window he has a table decorated with Col. D. Appleton chrysanthemums and asparagus.

P. G.

MCPHERSON, KAN.—Miss Bliss is building up a nice trade at the new east side greenhouse.

HIGHLAND PARK, ILL.—George Brown, the veteran florist, is establishing a nursery for ornamental stock.

MORRISON, ILL.—Davis Brothers have just put in a new seventy horse-power boiler with which to heat their 20,000 feet of glass.

WHEELING, W. VA.—The Wheeling Greenhouse Company has this week given a successful three days' flower show at Odd Fellows' Hall, under the auspices of the King's Daughters.

The New and Rare Asparagus Fern of 1902, Asparagus Myriocladus.

I am now offering a limited number of the above charming novelty, which has been awarded 11 First-Class Certificates by the leading Horticultural Societies of England, including the Royal Horticultural Society of London, June 24th, 1902; also at Shrewsbury, Wolverhampton and Handsworth Horticultural Societies, etc. It is quite a distinct novelty, growing 18 to 24 inches high, requires no staking and having four different shades in color, which gives it a very effective appearance and as a pot plant and for decorating purposes it is by far the best Asparagus in cultivation. Good established plants in 5-inch pots, 15s each; 4s for 12. Good established plants in 3-inch pots, 10s each; 4s 5s per 12. Packing free. Terms Cash with order or satisfactory reference. ROBERT GREENFIELD, Jr., F.R.H.S., Nurseryman and Florist, Leamington Spa, England.

SHIPPING LABELS FOR

...Cut Flowers

Printed in two colors on gummed paper, your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples....

MASTRO OF THIS LEAF, POSTPAID, \$1.25

American Florist Co.,

CHICAGO.

Palms, Ficus, Azaleas, Etc.

PALMS.

- KENTIA BELMOREANA, 2½-in. pots, \$6.00 per 100; \$50.00 per 1000.
- KENTIA BELMOREANA, 3-in. pots, \$12.00 per 100; \$100.00 per 1000.
- KENTIA BELMOREANA, 24 to 28 inches, fine bushy plants, \$1.25 each; \$15.00 per doz.
- KENTIA BELMOREANA, 30 to 32 inches, perfect condition, \$1.75 each; \$20 per doz.

CYCAS REVOLUTA, 60c, \$1.00, \$1.25 \$1.50 and \$2.00 each.

AZALEAS, 10 to 12-in. crowns, \$35 per 100.
 " 12 to 14-in. crowns, \$45 per 100.
 " 14 to 15-in. crowns, \$55 per 100.

FICUS, TRUE BELGIAN VARIETY.

4-in. pots, heavy strong stock, \$25 per 100.
 4-in. pots, lighter plants, \$15 per 100.

BOSTON FERNS, 2½-in. pot, \$4.00 per 100.

PRIMULA CHINENSIS, 2½-in. pots, \$2.50 per 100.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.

Stock Chrysanthemums.

\$6.00 per 100; 80 cents per dozen. Well furnished with cuttings.

WHITE:—Early, Fitzwygram, Bergmann; Midseason, Queen, Robinson, Ivory; Late, Jones.

YELLOW:—Early, Whildin; Late, Bonnaffon, Wedding.

PINK:—Early, Pacific; Midseason and Late, Morel, Perrin, Maud Dean.

Special and scarce kinds:—Chadwick, white; Childs, red; Appleton, yellow, \$8.00 per 100; \$1.25 per dozen.

ROSES, strong forcing stock.

3-in. Brides, Meteors, Golden Gates, \$4 per 100, \$35 per 1000. 2-in. Brides and Maids, \$2 per 100. Choice Asp. Plumosus for Christmas. 4-in. fine, \$15 per 100; 5-in., \$25 per 100.

W. H. Gullett & Sons, Lincoln, Ill.

Stock Plants

From Exhibition Blooms.

AT 25c EACH—Opah, Oresco, Edgar Sanders, Bentley, M. R. Cadbury, Mrs. Coombes.

AT 10c EACH—Curly Locks, Eaton, Appleton, Petaluma, T. Carrington, Yanariva, Mrs. W. B. Chamberlain, Mrs. Elmer D. Smith, Intensity, Buff Globe, Good Gracious, Shaw, Shavings, Orizaba, Golden Shower, Fee du Champsauer, Chas. Davis, Lavender Queen, Harry Balsley, Henry Nanz, Wm. H. Chadwick, Yanoma, Mrs. J. Jones.

AT 5c EACH—White Bonnaffon, Robinson, Bassett, Ivory, pink and white; Willowbrook, Frank Hardy. Cash please.

HENRY EICHHOLZ, Waynesboro, Pa.

Stock 'Mums.

THREE BEST EARLIES:

MONROVIA, Yellow.

Glory of Pacific Pink.

White POLLY ROSE

Also all other commercial varieties at \$5.00 per 100. Cash please.

Carl Hagenburger, W. Mentor, Ohio.

STOCK 'MUMS

White and Yellow Bonnaffon, White and Yellow Jones, Eaton, Dea, Pacific, Lager, Robinson, Ivory, Morel, 4c. each. Cash. Satisfaction guaranteed. CARLSTADT GREENHOUSES, Carlstadt, N. J.

CHRYSANTHEMUMS.

Large Strong Stock Plants From Bench.

ADRIAN.....each, \$.35 dozen, \$3.00
 C. HOLST.....each, .25 dozen, 2.00
 HONESTY.....each, .25 dozen, 2.00
 PROSPERITY.....each, .25 dozen, 2.00
 PROVIDENCE.....each, .25 dozen, 2.00

T. EATON, ORIZABA.
 MRS. CHAMBERLAIN, MAUD DEAN,
 CHADWICK, CHILDS.
 APPLETON, LADY ROBERTS,
 LIBERTY, MONROVIA.

\$1.50 per Dozen; \$8.00 per 100.

MRS. E. D. SMITH, WHITE BONNAFFON,
 BERGMANN, H. A. PARR,
 WILLOWBROOK, OCT. SUNSHINE,
 MERRY MONARCH, ROBT. HALLIDAY,
 POLLY ROSE, BONNAFFON,
 GLORY OF PACIFIC R. H. PEARSON,
 G. S. KALB, LADY HARRIETT,
 IVORY, ADELE,
 THE QUEEN, J. K. SHAW,
 MRS. J. JONES.

\$1.00 per Dozen; \$6.00 per 100.

6 plants of 1 variety at dozen rates; 25 at 100 rates.

H. WEBER & SONS,

Oakland, Maryland.

CHRYSANTHEMUMS

Stock Plants.

Mrs. Coombes, the finest early pink }
 Nellie Pockelt, a beautiful white } 15c each.

A large and fine stock of the above choice varieties.

Standard varieties, Appleton, Robinson, Eaton, 8c each.

(No order filled for less than \$1.00.)

W. A. CHALFANT, Springfield, Mo.

Primroses

CHINESE, single, mixed, 2½ in. pots.....\$1.50 Per 100
 ASP. PLUMOSUS, 2½-inch pots.....3.00
 GERANIUMS, 10 varieties, 2-inch pots.....2.50
 PANSY PLANTS.....\$2.50 per 1000.

CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.



Holly and Green

VAUGHAN'S XXX HOLLY.

We maintain the highest grade Holly Branches in the market. Every case personally inspected by our own representatives; men who gather and pack our Holly are well experienced. While other shippers sometimes handle as choice Holly as Vaughan's XXX Brand, yet ours has averaged **THE BEST** one year with another. Our price is

about the same while our values are more than **DOUBLE**. Per case, \$5.00. For larger lots write. Burlap lined, for Pacific Coast shipments, 50 cents extra.

Vaughan's Bouquet Green and Wreathing.

We are pioneer headquarters on this stock, controlling same from reliable first hands of long experience. We can save you money. Our stock this season, while in moderate supply only, is from best sources, largely Indian picked and all late picked, avoiding the warm drying weather in October. Write for prices when you are ready to buy. Per 100 pound crate, \$4.50 to \$5.50.

WREATHING. Beginning about Dec. 1, we carry two grades regularly in stock in large lots, and will make closest prices in 20 yard coils. Per 100 yds., \$3 00 to \$5 00.

Vaughan's Seed Store, NEW YORK.
CHICAGO.



Christmas TREES.

SAVE MONEY by buying direct from First Hands. We retail no trees; sell only to dealers in either dozen or car load lots.

A NO. 1 STOCK, 4 to 20 Ft.

Send for Free Price List.

Evergreen Nursery Co.

STURGEON BAY, WIS.

Please mention the American Florist when writing.

ASPARAGUS PLUMOSUS

4-inch, \$10.00 per 100; 3-inch, \$6.00 per 100.

H. HILLS, Elkhart, Ind.

50,000 DAHLIA Roots

1,000,000 CABBAGE PLANTS ready to plant out or prick in cold frame, only \$2.00 for Nov. or Dec.

Undivided. For want of storage I will sell at \$4 per 100. Florence Vaughan Canna, \$10 per 1000. Fine Tobacco Dust, \$1.00 per 100; \$15.00 per ton.

MARK T. THOMPSON, Rio Vista, Va.

Lowell, Mass.

CHRYSANTHEMUM CUT AT ITS HEIGHT.—
EARLY END OF THE CROP IN SIGHT.—
VARIOUS NOTES OF MARKET SUPPLY.—
TRADE STEADY.

The greater part of the chrysanthemum crop is cut, due to the especially good weather conditions we have been having the past few weeks, producing blooms of good quality and the crops in rapid succession. With such large quantities coming in, and the cost being low, the store men are taking advantage of them and some very pretty effects are to be seen in some of the windows, arranged with yellow chrysanthemums and oak leaves. The chrysanthemums shown this year are the finest blooms ever seen here. The Eatons that come from Pierce, at Waverley, are superb. Not only are chrysanthemums at high tide, but the same applies to carnations, but it is difficult to keep some of the varieties from going to sleep. If good weather continues, there is liable to be a shortage of stock at Thanksgiving. Roses of first quality are already a little scarce, but the poorer grades are to be had in immense quantities and at any price; roses good enough for design work are selling at 50 cents per hundred. Beauty and Queen of Edgely are in fair supply and the quality is tip-top, but there is not much demand for such stock. There is a noticeable shortage of both Liberty and Meteor.

Trade continues to keep up in good shape. There has been a little activity among the social set the past week, a few receptions and a dog show. It was anticipated that a large amount of violets would be needed for the dog show, but it was anything but violet weather.

A. Roper, of Tewksbury, has certainly a fine pink in Fairmaid. At the Massachusetts Horticultural Society's show he was awarded a silver medal for a vase of fifty blooms.

M. A. Patten was much pleased with the exhibition at Madison Square Garden.

The first snow of the season fell on October 29. A. M.

Lily of the Valley From Cold Storage

It pays to grow Cold Storage Valley for Xmas, New Year and January. They bring flowers and foliage without much trouble and special arrangements. Grow them as cool as possible and without bottom heat. My stock is in excellent condition and will give satisfactory returns.

\$15.00 per 1000; Case of 2,500, \$35.00; per 100, \$1.75.

Headquarters for Finest Cut Valley.

H. N. BRUNS, 1409 W. Madison St., CHICAGO.

J. C. SCHMIDT

Erfurt, Germany, Wholesale

Seed Grower ^{and} Nurseryman

Sends to Seedsmen and Florists the New

Trade Seed Catalogue ^{for} 1903

In English language, Free on Application.

Extensive home culture grounds. Choice Quality.

ESTABLISHED 1802

THORBURN'S SEEDS

Send for special low prices on

DUTCH HYACINTHS

for forcing or bedding, and

LILIUM LONGIFLORUM.

J.M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

GLADIOLI.

MAPLESHADE COLLECTION.

BEST QUALITY. Prices. Send for Price List and see for yourself. TESTIMONIALS.

WILBUR A. CHRISTY, Kinsman, O.



Mushroom Spawn.

Fresh importation just received from the most careful English maker. Bricks about 1 lb. each. 100 lbs., \$6.50, 50 lbs., \$3.50; 25 lbs., \$1.75; 10 lbs., \$1. per lb., 15c; if shipped from New York 50c per 100 lbs. less. Always write for the latest market prices on large quantities.

FRENCH, (Genuine), fresh stock, 2-lb. boxes, 75 cts.; in bulk, per lb. 30 cts.
ROBINSON'S MUSHROOM CULTURE 50 cts.

CHICAGO: 84 Randolph Street **Vaughan's Seed Store,** NEW YORK: 14 Barclay Street.

Please mention the American Florist when writing.

ILEX OPACA HOLLY

Excellent, well graded and well furnished stock in sizes from 6 inches to 3 feet, at from \$6.00 to \$25.00 per 100. Send for our Trade list.

Pinehurst Nurseries, Pinehurst, N.C.

ASPARAGUS SPRENGERI

Good 3-inch pots, \$2.00 per 100.

THE JESSAMINE GARDENS
JESSAMINE, FLA.

ALPINE and HERBACEOUS PLANTS.

Finest collection in Europe.
Trade list upon application.

Also a large stock of OVAL-LEAF PRIVET, 1 to 10 feet, bushes and standards.

IVIES, Common and Golden, in pots, f. o. b. Liverpool. Cash with order.

STANSFIELD BROS., Southport, England.

PAEONIAS FOR FALL. .

10 distinct, best kinds, \$10.00 per 100.

Ampe'opsis Veitchi, 2 year, strong . . \$1.00 per doz.

Clematis Paniculata, 2 year, strong, \$1.00 per doz. \$7.00 per 100.

Clematis, large flowering, \$2.50 per doz.; \$16 per 100.

F. A. BALLER, Bloomington, Ill.

Watson's Peony Proposition

Three very special offers of named sorts, selected for their commercial value, offers that we may never be able to make again at such low figures. Send for circular.

Watson's Clearing Sale

of Tulips, Narcissus, Freesias, Hyacinths, Lilies, etc., now going on. Big reductions. See last issue of Am. Florist or send to us for particulars.

Watson's November Arrivals

Valley, Dielytra and Spiraea shipments are now arriving and are opening up in splendid condition. All have been selected for size and quality, but prices are reasonable also. Special offer on application.

On and after this date and until further notice my celebrated

PHILADELPHIA, Nov. 10th, 1902.

**DIAMOND
....BRAND**



Mushroom Spawn

will be sold at the following reduced prices:

\$6.00 per 100 lbs.; \$55.00 per 1000 lbs.

50 at 100 rate 500 at 1000 rate; 25 lbs., \$1.75; 12 lbs., \$1.00. Sample bricks, about 1 1/2 lbs., 15c each; if wanted by mail, add 8c per lb. to above prices.

I have succeeded in making such favorable arrangements that the increase of duty is now largely neutralized and the above low rates are the result, while the quality is of the same high grade as heretofore.

ABSOLUTELY UNSURPASSED.

New shipment every other steamer during the season. Have your order in early to insure timely delivery.

GET YOURSELF POSTED.

"How to Grow Mushrooms," my 24-page booklet, on culture free to buyers or intending buyers (to others, 10c); "Robinson's Mushroom Culture," by mail postpaid, 65c.; Falconer's "Mushrooms: How to grow them," by mail postpaid, \$1.00—all of them a good investment even to the initiated and indispensable to others.

Registered Cable Address, "Hortus," Phila.

'Phone 3-42-94 D.

Headquarters Philadelphia Cut Flower Boxes.

**GEORGE C. WATSON, Bulbs For Florists
A Specialty.**

Seedsman.

TRADE

IMPORTER AND EXPORTER
OF.....



**Fancy Grasses, Flower & Vegetable Seeds, Bulbs, Mushroom Spawn, Raffia
AND FORCING STOCK.**

Office and Salesroom Juniper bel. Walnut St., **PHILADELPHIA, PA., U. S. A.**

FRESH TOBACCO STEMS, \$9.00 TON. WATSON'S STRICTLY PURE BONE MEAL FOR FLORISTS, \$30.00 TON.

**OPEN FOR
CONSIGNMENTS**

**AND
WE
AIM**

**OPEN FOR
CUSTOMERS**

to give full **SATISFACTION** to both. Violet growers picking good flowers and wanting good prices for them, can be accommodated. Regular shipments wanted.

**Alex. J. Guttman, Wholesale
Commission**
Telephone 1738 Madison Square. **52 W. 29th ST., NEW YORK.**

Please mention the American Florist when writing.

Orchids!



Arrived in fine condition: **CATLEYA TRIANÆ.** The only lot of this variety likely to reach this or any other country for a long time to come. Write for prices.

Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

Please mention the American Florist when writing.

**THE CULTURE OF
Adiantum Farleyense**

By **JULIUS LINDSTROM.**

Sent postpaid, at 75 cents. Address
Lock Box 8. Flatbush Station, Brooklyn, N. Y.

Pansy Plants.

MME. PERRET, the finest strain on the market, large plants that will bloom soon at 50c per 100; \$3.50 per 1000; 3,000 for \$10.00.

J. C. SCHMIDT, BRISTOL, PA.

Please mention the American Florist when writing.

Dallas, Tex.

GREENHOUSE STOCK ALL IN GOOD SHAPE.
—ROSES BLOOMING IN THE FIELDS.—
TRADE VERY ACTIVE.—NOTES.

A visit to the greenhouses finds all in good shape for fall trade. The Texas Seed and Floral Company are the only ones making a show of chrysanthemums this season. They have some very good flowers, and carnations are in good shape. At the large range of the Haskell Avenue Floral Company everything is in the best of shape, carnations never looked better, and prospects are for a heavy cut. Five large houses are devoted to this flower. Lawson, White Cloud, Flora Hill, Crane, Irene, Win. Scott, Dorothy and The Marquis are the principal sorts grown. Roses here receive the lion's share of attention and a walk over their grounds is a treat, thousands of plants in full bloom. The stock for replanting their ten acres of roses is now being put into the cutting benches.

Rush has been the order of the day among Dallas florists for some weeks. Following the State Fair came the opening of the social season, with numerous balls, receptions and weddings, followed by the visit of Admiral and Mrs. Schley. The decorations for all of these have been of the finest, especially those for the banquets tendered to the Admiral and his wife.

The city parks are one bower of bloom and foliage. They never looked as beautiful as they do this season and the management is truly deserving of great credit. The fancy planting is much more elaborate than in former years and all classes of flowering plants are in the best possible condition.

An' de moekio' birds a singin'
The merriest kind o' tune,
Poses bloomin' till December.
Just like 'twas only June;
When you fellows north have winter,
With snow, ice, and skies of gloom.
Down in Texas, the roses er' in bloom.

LONE STAR.

SIoux CITY, IA.—John R. Elder has the sympathy of many trade friends in the loss of his wife, who died this week.

Headquarters for GLADIOLI

Over eighty acres under cultivation during the past Summer.

Unquestionably we have the largest and finest stock in existence, from which we supply the world.

Write for special prices on large quantities.

Wholesale Catalogue of GLADIOLI and other Summer flowering bulbs mailed free on application.

John Lewis Childs,
Floral Park, L. I., N. Y.

Bulbs.

DAFFODILS and P. W. C. NARCISSUS
Cheap A bargain to those who grow them for sale. Correspondence solicited.

MISSIS. WILSON,

Mildred Street, MONTCOMERY ALA.

ENCHANTRESS THE GOLD MEDAL WINNER, having defeated all comers at Madison Square Garden and at Kansas City, now reigns supreme.

Having ordered a large quantity, I am still in a position to book orders for February delivery. Don't delay if you want any.

MRS. E. A. NELSON Has proved all we claimed for it—being free and continuous and ahead of its rivals in pink.

Cuttings guaranteed to be absolutely strong and healthy. January and February delivery.

PRICE, \$6 PER 100; \$50 PER 1000.

S. S. SKIDELSKY, 708 N. 16th St., Philadelphia, Pa.

Aster Seed

We offer Seed from selected flowers of the following varieties of our own growing:

- Vick's Branching
- Vick's Daybreak
- Vick's Purity
- Vick's Lavender Comet
- Vick's Snowdrift
- Giant Comet
- Queen of the Earlies
- (Early Market)

Write for Special Prices

JAMES VICK'S SONS
ROCHESTER, NEW YORK

LILLIAN POND

The Largest and Best White.

A pure white flower averaging 3 1/2 inches on long stiff stems. A continuous, free and early variety with a flower perfectly formed and very fragrant.

A Money Maker for You All.

Orders filled strictly in rotation, delivery commences January 1st, 1903.

PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00.

S. J. REUTER, WESTERLY, R. I.

Miss Louise Faber

The Longest Stemmed
and Most Fragrant
Carnation in Existence

Stems measure from 3 feet 8 inches to 4 feet. Flowers are of a beautiful pink shade, similar to a well colored Bridesmaid rose and average 3 to 3 1/2 INCHES. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for FEBRUARY delivery from now on.

FICK & FABER, SAN MATEO, CAL.

ROOTED CUTTINGS OF

ROSES

Now ready. Write us your wants.

BOSTON FERNS, in 2 1/2, 3, 4, 5, 6, 7, 8 and 10-in.

STOCK PLANTS of CHRYSANTHEMUMS.

GERANIUMS in 2 1/2-inch pots.

SMILAX, PLUMOSUS and SPRENGERI.

CINERARIAS, in 4-in. pots, extra nice plants.

CUT FLOWERS, Roses, Carnations and Mums.

Write Geo. A. Kuhl, Pekin Ill.

Please mention the American Florist when writing.

SPECIAL OFFER

Surplus Bulbs Lilium Longiflorum GIGANTEUM.

We have still a small surplus of 7-9 and 9-10 inch sizes, **SPLENDID FOR LATE FORCING.** We are placing a number of these in cold storage and would like to book your order now for spring delivery.

Also 9-10 ordinary grade. These can still be forced for Easter. Write for prices.

Calla Bulbs

A late shipment having just arrived from California in prime condition, to move them quick we offer

	Per 100	Per 1000
1 1/4-1 1/2 in. diam.....	\$4.50	\$35.00
1 1/2-2 in. diam.....	7.00	65.00

FREESIA REFRACTA ALBA

Per 1000
French grown, first quality, 1/2 to 3/4-inch... \$3.50
California grown, choice, 1/2 to 3/4-inch ... 3.00
" " first quality, 1/2 to 3/4-in... 2.50

HYACINTHS

White Roman, 12-15 ctm., \$2.50 per 100;
\$23.50 per 1000.
Blue Roman, \$2.25 per 100; \$20.00 per 1000.
Italian Roman, \$2.25 per 100; \$20 per 1000.

NARCISSUS

Paper White Grandiflora, 12-13 ctm., 75c per 100; \$6.75 per 1000.
Double Von Sion, fancy stock, \$1.35 per 100; \$12.00 per 1000.
Single Von Sion, extra forcer, \$1.00 per 100; \$9.00 per 1000.
Golden Spur, \$2.50 per 100; \$22.00 per 1000.

Send for our Complete Surplus List.

VAUGHAN'S SEED STORE,

CHICAGO. NEW YORK.
84 Randolph St 14 Barclay St.

You will benefit the American Florist by mentioning it every time you write an advertiser in these columns

ENCHANTRESS

QUEEN OF CARNATIONS.

Of all Varieties it is the **Largest and Best**



Gold Medal at
KANSAS CITY
Three firsts at
NEW YORK



Best 100 at
CHICAGO
Two Kuhn Prizes at
PHILADELPHIA.



ENCHANTRESS as seen growing by competent judges has been pronounced the best carnation to date. All those who had placed orders doubled same on seeing the stock. This fact speaks for itself. Our plants of this variety have been blooming continuously since September 12 and the flowers have been of the highest quality throughout that period.

We have ample facilities to fill all orders to our limit of 400,000 with positively strong and healthy stock. We have in the benches 18,000 plants, 13,000 of them being strictly for propagating purposes. **COME AND SEE IT GROWING.**

OVER 250,000 ALREADY BOOKED!

12 ... \$3.00	1,000.... \$100.00	5,000 ... \$450.00
100.....12.00	2,500..... 237.50	10,000 ... 800.00

J. D. Thompson Carnation Co.

Eastern Agent: PETER FISHER, ELLIS, MASS.

JOLIET, ILL.

200,000 CARNATION CUTTINGS Ready Now.



	Per Doz.	Per 100	Per 1000
Gov. Wolcott, white	\$.60	\$4.00	\$35.00
Alba, white	.60	4.00	35.00
Golden Beauty, yellow	.60	4.00	35.00

	Per Doz.	Per 100	Per 1000
Violanina, variegated	\$1.25	\$9.00	\$75.00
Mrs. Palmer, scarlet	.60	4.00	35.00
Mrs. Higginbotham, light pink	.60	4.00	35.00
J. H. Manley, scarlet	.60	4.00	35.00
Viola Allen, varieg'd	.60	4.00	35.00
Gaiety, fine varieg'd	.60	4.00	35.00
Harry Fenn, crimson	.60	4.00	35.00
Apollo, scarlet	.60	4.00	35.00
Dorothy Whitney, yellow	.65	4.50	40.00
Stella, Dorner's variegated	.60	4.00	35.00
Corbett, salmon	.40	3.00	25.00
Dorothy, pink	.50	3.00	25.00
Chicot, white	.50	3.00	25.00
Gov. Roosevelt, mar'n	.35	2.50	20.00
Prosperity, white-splashed pink	.35	2.50	20.00
Norway, white	.30	2.00	15.00
Lorna, white	.30	2.00	15.00
Gold Nugget, yellow	.30	2.00	15.00
Lawson, pink	.30	2.00	15.00

	Per Doz.	Per 100	Per 1000
Bon H. Richard, white	\$.30	\$2.00	\$15.00
Morning Glory, shell pink	.30	2.00	15.00
Egypt, maroon	.30	2.00	15.00
Queen Louise, white	.30	2.00	15.00
America, scarlet	.15	1.00	10.00
Craze, scarlet	.15	1.00	10.00
Genevieve Lord, light pink	.15	1.00	10.00
Evanston, red	.15	1.00	10.00
Tidal Wave, pink	.15	1.00	10.00
Joost, pink	.15	1.00	10.00
Mermaid, salmon, fine	.15	1.00	10.00
Portia, scarlet	.15	1.00	10.00
Armazindy, varieg'd	.15	1.00	10.00
Lizzie McGowan, white	.15	1.00	10.00
Wm. Scott, pink	.15	1.00	10.00
Marquis, light pink	.15	1.00	10.00
Argyle, pink	.15	1.00	10.00
Eldorado, yellow	.15	1.00	10.00
Gen. Maceo, maroon	.15	1.00	10.00

Write for prices on larger lots, 6 at 12 rates; 25 at 100 rates; 250 at 1,000 rates.

Terms spot cash, prepaid to your city at above prices. All rooted cuttings sold under express conditions that if not satisfactory on arrival, return immediately, when money will be refunded.

PLANTS.

Burbank's Shasta Daisy, a coming commercial cut flower. A fine thing to follow mums; also for summer blooming out-of-doors. We have 100,000 mailing plants now ready at \$5.00 per 100; \$40.00 per 1,000; large clumps, \$10.00 per 100, \$75.00 1,000. Pansy Plants, Giant Flowering Mixed, \$3.00 per 1,000. Asparagus Sprengeri, 100,000 at \$5.00 per 1,000. 10,000 Field-Grown Carnations. Write for prices and varieties.

SEEDS.

200,000 fresh seeds of Asparagus Sprengeri at \$1.00 per 1000; \$4.00 per 5,000. Pansy Seed, Giant Flowering, only \$5.00 per pound. Smilax Seed, new 1902, only \$2.50 per pound. Burbank's Shasta Daisy, 25c per 100; \$2 per 1,000; 20,000 for \$18. 25 at 100 rates; 250 at 1,000 rates. Express prepaid at above figures.

CALIFORNIA CARNATION CO., Placer County, Loomis, Cal.

FOR SALE Field-Grown Roses.

270 Kaiserin A. V., 230 P. Carnot, 92 Beauty of Stapleford, 92 S. Malmaison, 36 Admiral Dewey, 49 Bessie Brown, 40 Helen Gould, 9 Rosomane Graveraux, 4 Gladys Harkness, 30 Safrano, 50 Sprunt, 190 P. C. Soupert, 84 Pink Soupert, 62 Brabant.

Price 8 cents Cash per Plant for Lot.

ALEX. WALDBART,
Hamilton Ave. and Horton Pl., ST. LOUIS.

MARIAN and DORA

(TWO SISTERS)

White Carnations

of extra commercial value.

Rooted Cuttings ready Jan. 15th.
\$5.50 per 100; \$45.00 per 1000.

ISAAC A. PASSMORE, WEST CHESTER, PA.

ROBT. CRAIG & SON,
Roses, Palms
and Novelties in Decorative Plants,
Market and 49th Sts., Philadelphia, Pa.

CARNATIONS!

FINE, LARGE, HEALTHY FIELD-GROWN PLANTS.

	Per 100	Per 1000	Per 100	Per 1000
White Cloud	\$6.00	\$50.00	\$5.00	\$40.00
Norway	6.00	50.00	5.00	45.00
Marquis			5.00	40.00
Guardian Angel			5.00	45.00
Prosperity			5.00	40.00

WIETOR BROS., 51 Wabash Ave., Chicago.

CARNATIONS Rooted Cuttings

10,000 Ethel Crocker now ready; just the right thing for growing into plants for next summer's bloom. \$10.00 per 1000. I will be glad to quote prices on any of the following for January or later delivery. Please state how many of each variety are wanted and when they are to be delivered: Dorothy, Nelson, Crossbrook, Queen Louise, Alba, Lorna, Her Majesty, Apollo, Estelle, Alons, Morning Glory, Higginbotham, Gaiety, Prosperity and Roosevelt. After this batch of Crocker are sold I will root it only to order, at same price per 1000, and orders must be placed six weeks before stock is wanted.

ALBERT M. HERR, LANCASTER, PA.
Please mention the American Florist when writing.

All The Best CARNATIONS

The Leading Novelties of 1903.
The Best Varieties of 1902.
All the Standard Varieties.
Order your Rooted Cuttings NOW.
GEO. HANCOCK & SON,
GRAND HAVEN, MICH.
Please mention the American Florist when writing.

Unrooted Carnation

PIPS READY.

	Per 100	Per 1000
Gov. Wolcott, white, 1902	\$2.00	\$18.00
Alba, white, 1902	2.00	18.00
Golden Beauty, yellow, 1902	2.25	20.00
Violanina, variegated, 1902	5.00	40.00
Dorothy, pink	1.50	13.00
Gov. Roosevelt, crimson	1.25	10.00
Norway, white	1.00	8.00
Eldorado, yellow	.50	5.00
Gen. Maceo, maroon	.50	5.00

Asparagus Sprengeri from flats, \$1.50 per 100; \$7.50 per 1000.
25 at 100 rates, 250 at 1000 rates. Cash. Express prepaid.

WESTERN CARNATION CO.
E. N. FANCHER, Mgr. LOOMIS, CAL.

HERRON...

Carnation Grower,
OLEAN, N. Y.
Please mention the American Florist when writing.

FOR 1903....

The Finest Pink Rose ever introduced

Canadian Queen

Winner of the only Medal given at New York Flower Show, Oct., 1902, for New Rose. This Queen among roses is a sport from Mrs. Pierpont Morgan, possessing all its vigorous habits, stands erect, with strong stem and beautiful, clean cut foliage. The flower is perfect in form, each petal opening out faultlessly and in size equals Morgan, being four inches in diameter. The color is a shell Pink throughout, of exceptional shade, that will make it the peer of all other roses in light pink. The plant is most prolific and the keeping qualities are unusually good.

PRICES:

Strong Plants, 2 1-2 -inch pots, own roots.	Grafted plants, 2 1-2 -inch pots.
12 plants..... \$ 5.00	12 plants..... \$ 7.50
100 plants (25 at 100 rate)..... 30.00	100 plants (25 at 100 rate)..... 45.00
1000 plants (250 at 1000 rate) 200.00	1000 plants (250 at 1000 rate)..... 300.00

DELIVERED IN THE U. S. (in quantities of not less than 250) FREE OF DUTY.

READY FEBRUARY, many orders already in. **READY MARCH**, all orders filled in rotation.

Testimonials proffered by a few Florists who have seen the Rose:

New York, Nov. 4, 1902.
THE DALE ESTATE, Brampton, Ontario, Canada.
 Gentlemen—The Canadian Queens you have been shipping to me have arrived in the best of condition, and I like the rose very much. It has been shown to the principal retailers and they all admire it. Its keeping qualities are excellent, and it will no doubt prove a valuable acquisition to the list of good roses and also prove to be a profitable rose to the grower as well as the retailer.
 Yours very truly, T. YOUNG, Jr.

S. TIDY & SON, Toronto, Canada, write under date Oct. 2, 1902—I think the new rose is a lovely color and predict a great success for it, providing it has all the good qualities of the parent and judging from what I saw of Mrs. Oliver Ames at the Spring New York Show, would say without hesitat on that Canadian Queen is in every way its superior.

J. S. MURRAY, Montreal, Que., writes under date of Oct. 2, 1902. Dear Sir—Thank you so much for sending me the new rose, Canadian Queen, which I think lovely and waxy and am sure will be very saleable. The color, stem and foliage are beautiful. My customers who saw it today seem highly pleased with it. The fragrance too is delightful.

PHILIP BREITMEYER, of Detroit, Mich., Oct. 7, 1902—Canadian Queen is rightly named, you should be proud of it. I think it is a grand color. Canadian Queen fills just the want; it will supplant Cusin. To bear out what I say we want as many as we can plant for next season; if you will send it out, put us on early so as to get an order in.

AMERICAN FLORIST, Nov. 1—The new rose, Canadian Queen, from the DALE ESTATE, attracts much favorable comment at Thomas Young's, where the blooms are on sale. It is a light pink sport from Mrs. Pierpont Morgan, of very even tint and is an unexcelled keeper.

J. B. KELLER SONS, of Rochester N. Y., write Oct. 29th, 1902—Of all the pink roses we have ever seen we think this one, (Canadian Queen,) is the prettiest both in color and shape of flower and beats everything in a pink rose in our estimation. It is as good a grower and as free a bloomer as it appears to be it ought to have a phenomenal sale if you intend putting it on the market. We do not know of anything that will compare with it.

AMERICAN FLORIST'S REPORT, New York Show Canadian Queen from the Dale Estate, Brampton, leads in the novelty section.

W. J. PALMER, of Buffalo, N. Y., writes under date of Oct. 22, 1902—The Queen roses received last night were very fine, could not have been better. Should say that Canadian Queen is a better rose than Morgan or Cusin, and when you get ready to send it out, will have to try some of it.

THE FLORISTS' EXCHANGE, of New York Show, Nov. 1, 1902—Among the new things on exhibition are: The Canadian Queen rose, shown by the Dale Estate, Brampton, Ont., a sport from Mrs. Pierpont Morgan, of a beautiful shade of pink, lighter than that of Mrs. Morgan and a little deeper than the color of Mrs. Oliver Ames. This new-comer is highly spoken of by the rose growers present.

We have had this rose (unbeknown to the public) for 3 years but have not exhibited it until now, as we desired to make such a test of its qualities as would warrant us in recommending it to the trade and we have now no hesitation in saying it is in every way a more than desirable light pink rose—the best ever sent out and a necessity to any good grower.

We have 500,000 square feet of glass and are the largest and most successful growers of purely cut flowers in the world.

DALE ESTATE, Brampton, Ontario, Can.

Buffalo.

TRADE QUIET AND WEATHER FINE.—ALL STOCK PLentiful.—MOST OF IT GOOD.—JOTTINGS OF THOSE OF THE CRAFT.

Fair weather and moderate trade prevail. Weddings and receptions have been quiet for two weeks, owing to the active interest in the election. Roses are plentiful and quality good. Chrysanthemums are at their best at present and violets are good. Carnations seem equal to all demands.

Palmer & Son have not got into their store as yet. An accident about two weeks ago, to their ceiling decorations, has caused much trouble and necessitated the redecorating of that part of the room.

Philip Breitmeyer, of Detroit, called on his return from New York and is of the opinion that Detroit and Buffalo can beat what was shown in the New York exhibition.

The H. A. Meldrum Company, one of our largest department stores, is giving a chrysanthemum show this week which is being supported by all the florists.

Mrs. C. Schoenhut has about completed two new houses 18x100, on Jefferson street, in the rear of her store, for palms and bulbous stock.

J. H. Rebstock made a very large horse shoe for an out of town order last week; it was very fine.

S. A. Anderson has repainted his store, outside and in.

C. D. Zimmerman was in New York for the show. BISON.

ASBURY, N. J.—The greenhouse on the Runkle estate has been removed to H. G. Runkle's place at Plainfield.

FITZGERALD, GA.—Joel Thomas says that the prospects are for good business here. The city is young and so is his establishment, but everybody is prosperous.

A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

KENTIA Belmoreana and Forsteriana, extra clean and well grown plants, 2½, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

REX BECONIA, 2 and 3-inch, \$4 and \$6 per 100
BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.

ASPARAGUS Plumosus, 2-inch, \$5; 3-inch, \$8; Sprengeri, 2-inch, \$3; 3-inch, \$5, per 100.

DRACAENA INDIVISA, 4, 5-in., \$10, \$25 per 100
ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100
CAMPBELL VIOLETS, 3-inch, \$4.00 per 100.

GERANIUMS, rooted cuttings, standard varieties; your choice \$1.25, my choice \$1.50 per 100

VINCA VAR., 3-inch, \$4.00 per 100.

CINERARIA, 2-inch, \$2.00 per 100.

Chinese Primrose, 2-in., \$3; 3-inch, \$5 per 100

Cash or C. O. D.

Geo. M. EMMANS, NEWTON, N. J.

ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong, 2½-inch, \$3.50 per 100.

SPRENCERI, strong, 2½-inch, \$2.50 per 100.

BOSTON FERNS.

From bench fit for 3, 4, 5, 6, 7 and 8-in., 2½c, 5c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA

Extra fine, 4 to 7-inch pots, only 12c per leaf.

25 FINE RUBBER PLANTS, 3 feet, \$1 each, or the lot for \$20.00. CASH PLEASE.

A. J. BALDWIN, NEWARK, OHIO.

Hardy Herbaceous Plants.

The plants are fine and in perfect condition, and I offer them at the following simply because I have a great surplus of them. A rare opportunity to buy in a stock.

Orders accepted for spring shipments.

PAEONIAS, 25 choice named double varieties, strong roots, 2 and 3 eyes each	100	1000	\$10.00	HEMEROCALLIS Dumortieri (Golden Day Lily)	100	1000	3.00	25.00
PAEONIAS, fine double varieties mixed, 2 and 3 eyes each	8.00			HEMEROCALLIS flava (Lemon Lily)	3.50	30.00		
GERMAN IRIS, 8 line named varieties, strong year old roots	2.00	\$15.00		HEMEROCALLIS Thunbergi (Japan Day Lily)	3.50	30.00		
GERMAN IRIS, fine varieties mixed, strong year-old roots	1.50	10.00		Lathyrus latifolius (Perennial Pea)	8.00			
JAPAN IRIS, 25 superb named varieties, strong roots	3.50	30.00		Opuntia vulgaris (Prickly Pear)	2.50	20.00		
GOLDEN GLOW (Rudbeckia laciniata fl. pl.) field plants	1.50	10.00		Pardanthus Sinensis (Blackberry Lily)	2.50	20.00		
EULALIA Japonica variegata and gracillima, clumps 1 in. square	3.00	25.00		Phlox Amœna (Lovely Phlox)	6.00			
EULALIA Japonica Zebrina (Zebrina grass), clumps 4 inches square	3.50	30.00		Phlox , Ball of Fire, Joan of Arc, Star of Lymes, etc.	3.00	25.00		
Achillea Millefolium roseum	3.00	25.00		Phlox subulata (Moss Pink)	2.00	15.00		
Astilbe Japonica (Spiraea Japonica) clumps	3.50	30.00		Penstemon barbatus Torreyi	3.50	30.00		
Aster Nova-Anglia rosea	3.50	30.00		Physostegia Virginica (Dragon's Head)	4.00	30.00		
Boltonia Asteroides	3.00	25.00		Physostegia Virginica alba	6.00			
Boltonia Latisquama	3.50	30.00		Polygonum amplexicaule oxyphyllum (Mountain Fleecy)	3.50			
Baptisia Australis (False Indigo)	3.50	30.00		Pyrethrum uliginosum (Giant Daisy)	3.00	25.00		
Bocconia Japonica (Cordata)	3.50	30.00		Rudbeckia Maxima (Great Cone Flower)	5.00			
Coreopsis grandiflora (Golden Wave)	2.50	20.00		Rudbeckia subtomentosa (Black Eyed Susan)	3.00	25.00		
Coreopsis lanceolata (true)	5.00			Sedum maximum (Great Stone Crop)	3.00	25.00		
Digitalis purpurea (Foxglove)	5.00			Sedum Maximowiczii	3.00	25.00		
Funkia ovata (Blue Day Lily)	3.00	30.00		Stachys lanata (Woolly Woundwort)	5.00	40.00		
Funkia subcordata (White Day Lily)	3.00	30.00		Tanacetum vulgare crispum (Fern Leaved Tansy)	2.50	20.00		
Gaillardia grandiflora	3.50	30.00		Valeriana officinalis (Garden Heliotrope)	5.00			
Helianthus Maximiliana (Late Sun flower)	3.00	25.00		Veronica longifolia subsessilis	6.00			
Helianthus Moëlis grandiflora (Great Downy Sunflower)	2.50	20.00		Veronica spicata	3.00	25.00		

NO CHARGE FOR PACKING. PROMPT SHIPMENTS.

J. T. LOVETT, Little Silver, N. J.

Azaleas at Import Prices

We will supply, as long as stock remains unpotted, Azaleas of the best quality we have ever sent out, stock that we know will give entire satisfaction:

10 to 12-inch crowns, bushy plants	.....	\$ 4.50 per dozen;	\$ 35.00 per 100
12 to 14-inch crowns, bushy plants	.....	6.00 per dozen;	45.00 per 100
14 to 16-inch crowns, bushy plants	.....	7.50 per dozen;	55.00 per 100
16 to 18-inch crowns, bushy plants	.....	12.00 per dozen;	90.00 per 100
18 to 20-inch crowns, bushy plants	.....	25.00 per dozen;	200.00 per 100
20 to 24-inch crowns, bushy plants	.....	36.00 per dozen;	300.00 per 100

DEUTZIAS for FORCING

We are again this season offering our usual fine stock of home-grown Deutzias, these plants are grown on light sandy soil and have a mass of working fibrous roots which makes them equal to pot-grown stock and at a much lower cost.

GRACILIS—Suitable for 6 and 7-inch pots, 75c per dozen; \$6.00 per 100

GRACILIS ROSEA—Suitable for 6 and 7-inch pots, \$1.00 per dozen; \$8.00 per 100.

LEMOINEI—Suitable for 6 and 7-inch pots, \$1.00 per dozen; \$8.00 per 100.

HENRY A. DREER, Philadelphia, Pa.

Boston Ferns,

2, 3, 5-inch.

CHRYSANTHEMUMS,

Stock Plants.

ALL THE STANDARD VARIETIES.

For Prices on above Write

Geo. L. Miller, Newark, Ohio.

FINE STOCK OF FERNS and MOSSES

Hard, Well Grown and Full Plants.

10 BEST VARIETIES FOR JARDINIERS.

2½-inch pots	.....	100
3½-inch pots	.....	\$3.00
4½-inch pots	.....	8.00
5-inch pots	.....	20.00
ALSOPHILA AUSTRALIS (Tree Fern)	2½-inch	4.00
"	3½-inch	8.00
LOMARIA GIBBA	"	3½-inch
BOSTON FERNS , fine specimens in 8-inch pans,		\$9.00 per doz.

JOHN H. LEY, COODHOPE, Washington, D. C.



JUST ARRIVED, SPECIAL IMPORTATION AZALEAS.

All the best sorts, such as Bernard Andrea Alba, Deutsche Perle, Vervaeana, Simon Mardner, Mme. Van der Cruyssen, Virginia, Empress of India, and many others.

PRICE IN ASSORTED LOTS, FOR EARLY ORDERS:

10 to 12-inch crowns, bushy plants.....	\$40.00 per 100
12 to 14-inch crowns, bushy plants.....	50.00 per 100
14 to 16-inch crowns, bushy plants.....	60.00 per 100
16 to 18-inch crowns, bushy plants.....	\$12.00 per doz.
18 to 20-inch crowns, bushy plants.....	25.00 per doz.
20 to 22-inch crowns, bushy plants.....	30.00 per doz.
22 to 24-inch crowns, bushy plants.....	36.00 per doz.

We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

BOSTON FERNS.

Extra choice lot of compact, bushy, pot-grown plants.

2 1/4-inch pots.....	\$5.00 per 100	5-inch pans.....	\$40.00 per 100
3-inch pots.....	10.00 per 100	6-inch pans.....	9.00 per doz.
4-inch pots.....	25.00 per 100	7-inch pans.....	12.00 per doz.

PALMS, FERNS, ETC.

We offer Good Values, Saving in Express and Freight to Buyers West of Ohio.

ARAUCARIA EXCELSA.

Size Pots.	Height.	Whorls.	Each.
5-inch	12 inches	3 to 4	\$.75
5-inch	18 to 20 "	4 to 5	1.25
7-inch	22 to 24 "	4 to 5	1.50
8-inch	28 to 30 "	5 to 6	2.50

ARAUCARIA EXCELSA GLAUCA.

Size Pots.	Height.	Whorls.	Each
5-inch	12 inches	3 to 4	\$1.00
5-inch	14 "	3 to 4	1.25
7-inch	24 "	5 to 6	2.50
7-inch	26 "	5 to 6	3.00

ARAUCARIA ROBUSTA COMPACTA.

Size Pots.	Height.	Whorls.	Each.
5-inch	10 inches	2 to 3	\$1.25
5-inch	12 "	3	1.50
6-inch	14 "	3	1.75
7-inch	18 "	3 to 4	2.00
7-inch	20 "	3 to 4	2.50
7-inch	22 "	4	3.00

PANDANUS UTILIS.

Size Pots.	Height.	Each.	Doz.	Per 100
3-inch	8 to 10 inches	\$.15	\$1.50	\$12.00
6-inch	20 to 22 inches	.75	8.00	
7-inch	24 to 26 inches } good value	1.00	12.00	

ARECA LUTESCENS.

Size Pots.	Height.	Each.	Doz.
5-inch	18 inches, 3 plants in a pot.....	\$.50	\$6.00
5-inch	24 inches, 3 plants in a pot.....	.75	9.00
6-inch	36 inches, 3 plants in a pot.....	1.50	
7-inch	40 inches, bushy.....	2.00	

PANDANUS VEITCHII.

Size Pots.	Each.	Doz.
4-inch	\$.75	\$9.00
5-inch	1.00	12.00
6-inch	1.50	18.00
7-inch	2.50	
8-inch	\$3.50 to 5.00	

The above are in fine condition, well colored.

CYCAS REVOLUTA.

We can supply fine plants, well rooted, with fine, perfect crowns, in sizes from 3 to 10 lb. stems, at an average price of 10c per leaf.

FICUS ELASTICA—RUBBER TREE.

PERFECT, SHAPELY PLANTS.

Size Pots.	Height.	Each.	Doz.	Per 100
5-inch	15 to 18 inches	\$.40	\$4.50	\$35.00
6-inch	20 to 24 inches	.60	6.00	50.00

KENTIA BELMOREANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	6	18 to 20 inches	\$.75	\$7.50
6-inch	6 to 7	28 to 30 inches	1.50	18.00
7-inch	6 to 7	30 to 32 inches	2.00	24.00
8-inch	6 to 7	36 inches	2.50	
8-inch	6 to 7	38 to 40 inches	3.50	
8-inch	5 to 6	42 to 44 inches	5.00	

LATANIA BORBONICA.

Size Pots.	Character leaves	Height.	Each.	Doz.
6-inch	7 character leaves	20 to 24 inches	\$.75	\$9.00
6-inch	7 to 8 character leaves	25 to 30 inches	1.00	12.00
7 and 8-inch	7 to 8 character leaves	3 feet	2.00	
8-inch	8 character leaves	40 to 48 inches	3.00	

KENTIA FORSTERIANA.

Size Pots.	Leaves.	Height.	Each.	Doz.
5-inch	5 to 6	20 to 24 inches	\$.75	\$9.00
5-inch	5 to 6	26 to 28 inches	1.00	12.00
5-inch	5 to 6	30 inches	1.25	15.00
8-inch	6	48 to 50 inches	4.00	
8-inch	6	54 inches	6.00	
8-inch	6 to 7	60 inches	8.00	

PHOENIX CANARIENSIS.

Size Pots.	Height.	Each
7-inch	24 to 26 inches, stocky plants.....	\$1.50
9-inch	4 feet, stocky plants.....	3.00

ASPARAGUS PLUMOSUS NANUS.

We have a very large stock of all sizes.

2 1/2-inch pots.....	\$.75 per doz.	\$5.00 per 100
3-inch pots.....	1.00 per doz.	8.00 per 100

ASPARAGUS SPRENGERI.

2 1/4-inch pots.....	\$3.50 per 100	\$0.00 per 1000
4-inch pots.....	\$1.50 per doz., 12.00 per 100	

CIBOTIUM SCHIEDEI.

8-inch pots, fine specimens.....	\$3.00 each
----------------------------------	-------------

VAUGHAN'S SEED STORE,

84-86 RANDOLPH ST., CHICAGO.

14 BARCLAY STREET, NEW YORK.

GREENHOUSES, WESTERN SPRINGS, ILL.

Tiffin, O.

GROWER REPORTS GOOD FALL TRADE.—
MAKES GREAT SUCCESS OF GATE AND
ITS SPORT.—OTHER NOTES.

I found Lewis Ullrich comfortably installed in his new, commodious and well appointed "den," built during the past summer. "Comfortable and well appointed," in all that these terms imply, will about describe the new office, where the click of the typewriter and the mass of letters on the desk denote that business is by no means at a standstill. In fact, at no time has business been more brisk and encouraging, both wholesale and retail. Nor has his general stock been in better condition than it is at this writing. A stroll through the flat-roofed, mammoth carnation house showed that notwithstanding the unusually wet season, the plants have made rapid and vigorous growth since being housed. The best varieties, such as Lawson, Marquis, Bradt, Crane, Estelle, Queen Louise, Flora Hill and a few very nice seedlings of his own are grown successfully, such a thing as stem rot being practically unknown here.

Roses look equally well and while Brides and Bridesmaids are grown in quantity Golden Gate seems to be Mr. Ullrich's especial favorite. The stem he puts on it makes it a valuable rose. Its sister, Ivory, behaves in a similar manner, sending up fine buds on long, stiff stems.

Chrysanthemums have appeared in quantity, those grown to the single stem, such as Ivory, Chadwick, Vivian-Morel, Eaton and Appleton, being especially attractive. There is not a bloom going to waste.

Harrisii bulbs are well on the way and there is little disease apparent as yet.

NOMIS.

MUNCIE, IND.—The Carnes Greenhouses, formerly at Walnut and Willard streets, have been removed to Jefferson and Fifth streets, where four new houses have been put up, for roses, carnations and pot plants.

25,000 Rudbeckia The Glow
Clumps, \$3.00 per 100; \$25.00 per 1000.

25,000 Boltonia Asteroides
Clumps, \$4.00 per 100, \$35.00 per 1000.
and thousands of other varieties of

**Hardy Herbaceous Plants,
150,000 ASPARAGUS,**

Conover's Colossal, etc., and a full line of Trees, Shrubs, etc. Send for catalogue.

**CENTRAL MICHIGAN NURSERY,
Kalamazoo, Mich.**

Surplus Geraniums.

350 La Favorite	100 Madam Thibaut
160 Jean Vaud	150 Madam Jeanin
100 Richeieu	350 Poitevine
500 Nutt	1200 Heteranthe
75 Lemolne's Camille	

2-in pots \$2.50 per 100; \$20.00 per 1000; 250 at 1000 rates. 200 Le Soleil. \$1.00 per 100. Cash.
These are all fine strong plants.

W. SABRANSKY, KENTON, OHIO.

SPECIAL OFFER FOR SHORT TIME
Only to make room, extra fine lot

MIXED FERNS

from 2-inch pots, strong and well grown, \$3.00 per 100; \$25 per 1000. All good varieties. Do you want a lot of Cyrtomium Falcatum at \$3.50 per 100?
BEARD BROS., 1248 W. Fort St., Detroit, Mich.

Montgomery Nurseries Specialties

- PERENNIAL PHLOXES
- HARDY CHRYSANTHEMUMS
- HARDY HERBACEOUS PLANTS
- ROSA RUGOSA SEEDLINGS
- ROSA MULTIFLORA JAPONICA ALBA SEEDLINGS (For Grafting Stocks)

California Privet Hedging in all sizes, also bush and standard trained for model garden work.

John G. Gardner,

Villa Nova - - Penna.

Fine Grafted **ORANGES** Bearing Sizes.

- | | |
|--|---------|
| | Per 100 |
| 12 inch, bushy, from 4-inch pots | \$20.00 |
| 15-18 inch, bushy, from 4-inch pots | 30.00 |
| Kin Kans 10-12 in., bushy, from 4-in. pots | 20.00 |
| 15-18 in., bushy, from 4-in. pots | 30.00 |
| Lemons 12-15 in., bushy, from 4-in. pots | 20.00 |
| 18-24 in., bushy, from 4-in. pots | 30.00 |
| Roses Climbing Clothilde Soupert, strong field-grown | 10.00 |
| Crimson Rambler, str. field-grown | 7.00 |
| Clematis Apiifolia A fine variety, somewhat similar to C. Paniculata, but blooms earlier and lasts longer; strong plants from 3-inch pots | 8.00 |
| (Not less than 40 of a class at 100 rate.) | |

Citrus Trifoliata (Best defensive hedge plant.) Per 1000
Strong, 2 year old, field-grown \$15.00
Strong, 3 year old, field-grown 20.00

Amoor River Privet (Better than California Privet.)
18-24 inch, branched 15.00
24-36 inch, branched 20.00
Not less than 400 of a class at these rates.

Rubbers, Kentias Phoenix, Latanias, Pandanus, Ornamental Trees and Shrubs in large quantities.

WRITE FOR CATALOGUE.....

P. J. BERCKMANS CO., (Inc.)
FRUITLAND NURSERIES,
Established 1856. AUGUSTA, GA.

CYCLAMENS.

Well set with buds, 4-inch, \$12.00; 5-inch, \$18.00 and \$25.00.
CINERARIA, 3-inch strong, frame grown, \$5.00.
PRIMROSES, 4-inch, \$8.00.
Field-grown **ASPARAGUS SPRENGERI**, \$3.00, \$5.00, \$7.00 per 100.
Christ. Winterich, Defiance, Ohio.

ASPARAGUS SPRENGERI

Field-Grown. These plants have short tops and extra strong root; are cheaper and give quicker returns than pot-grown stock; \$4.00, \$6.00 and \$8.00 per 100, according to size. Per 100

- ADIANTUM CAPILLUS VENERIS**—One of the best for fern dishes and other decorative work, 2 1/2-inch pots. \$3.00
- ADIANTUM CAPILLUS VENERIS IMBRICATUM**—Excellent for filling fern dishes. Wide pinna like Farleyense, 2 1/2-inch. 5.00
- ANEMONES**—Japonica Alba 6.00
- Elegantissima, a new variety of exceptional merit. 10.00
- Lady Ardilaun 8.00
- Queen Charlotte 8.00
- Rosea Superba 12.00

BEGONIA INCARNATA—The most useful Begonia for winter flowering, 3-inch pots. 8.00

CAREX JAP. VARIEGATA—A useful decorative grass, 2 1/2-inch pots. 2.50

CINERARIA STELLATA—From 2 to 4 feet high. The plant makes a most effective display, either as a specimen or in groups, 3-in. pots 5.00

CYPHERUS ALTERNIFOLIUS—Bushy outdoor-grown plants, in 3-inch pots, extra strong, ready for a shift. 4.00

NEPHROLEPIS DAVALLIOIDES FURCANS—We consider this to be the handsomest fern in cultivation. Has no equal as a Christmas plant. Have a fine lot in 5 and 6-in. pots, \$5.00 and \$6.00 per dozen.

PHALARIS ARUNDINACEA VARIEGATA—Of the variety which retains its bright variegations of white and green throughout the season. Can highly recommend it as an effective border plant. Large field-grown clumps. 6.00

PRIMROSES—(Chinese) separate colors, white, light pink, scarlet and blue. From the finest imported seed, 3-inch pots. 5.00

PTERIS CRETICA ALBO-LINEATA—Variegated; very useful and pretty, 2 1/2-inch pots 3.00

PYRETHRUM (Hybridum)—Gives the best of satisfaction both as to variety of color and freedom of bloom; the colors range from pure white to deep blue; field-grown. 8.00

TRITOMA UVARIA GRANDIFLORA—An old standby; strong divisions 5.00

VALERIANA OFFICINALIS (Garden Heliotrope)—Strong divisions 5.00

VINCA MAJOR VARIEGATA—Large, field-grown clumps with 12 to 20 runners; a good seller during the winter. 8.00

VIOLETS, California—Field-grown, 2nd size. 3.00

NATHAN SMITH & SON, Adrian, Mich.

DAHLIAS

LEADING FLORISTS' CUT FLOWER VARIETIES.

Special prices to close out surplus. **\$5.00 per 100; \$45.00 per 1000.** Heavy Clumps, just as dug from field, will divide into 4 to 15 strong roots:

- A. D. LIVONI**, sea shell pink.
- C. W. BRUTON**, large yellow.
- NYMPHAEA**, flesh pink.
- PRINCE CHARMING**, rose pompon.
- SNOWCLAD**, pure white pompon.
- WM. ACNEW**, dazzling scarlet.

THE ELM CITY NURSERY CO.
NEW HAVEN, CONN.

Violets and Hardy Pinks

STRONG FIELD CLUMPS.
California and Single Russian \$3.00 per 100
Admiral Avelon and La France 5.00 per 100
Comet, Souv. de Sale, May, Gertrude,
Earl of Carlisle 6.00 per 100

The Conard & Jones Co., West Grove, Pa.

Pansies Worth Raising.

Strong plants, \$4.00 per 1000; \$2.50 per 500; \$1.00 per 100, f. o. b. express here. Cash with order.

CHR. SOLTAU,
199 GRANT AVENUE, JERSEY CITY, N. J.

PHILADELPHIA PALMS.

JOSEPH HEACOCK

Offers the following varieties and sizes, home grown and in excellent condition:

ARECA LUTESCENS.

	Per doz.	Per 100
2-inch pot, 1 plant in pot, 10 to 12 inches high.....	\$ 8.00	
4 " " 3 plants " 18 to 20 "	3.00	25.00
6 " " 3 " " 24 to 26 "	9.00	75.00
6 " " 3 " " 28 to 30 "	12.00	100.00
10 " " 3 " " 42 to 45 "	\$5.00 each.	
10 " " 3 " " 50 to 60 "	7.50 each.	

COCOS WEDDELIANA.

2x3-inch pots, 6 to 8 inches high	\$10.00 per 100
2x3-inch pots, 8 to 10 inches high	15.00 per 100

KENTIA BELMOREANA.

	Per doz.	Per 100
2 1/4-inch pot, 8 inches high.....	\$1.50	\$12.00
3 " " 4 to 5 leaves, 12 to 15 inches high.....	2.50	20.00
4 " " 5 to 6 " 15 to 18 "	4.50	35.00
6 " " 5 to 6 " 24 "	12.00	100.00
6 " " 6 to 7 " 24 to 28 "	15.00	125.00
6 " " 6 to 7 " 28 to 30 "	18.00	150.00

MADE UP KENTIA BELMOREANA.

8-inch pots, 4 plants in a pot, 36 to 40 inches.....	\$3.00 each
8-inch pots, 4 plants in a pot, 48 inches.....	4.00 each

JOSEPH HEACOCK, Wyncote, Pa.



Ficus Elastica ^{4 and 5-in. Pots.}

Latania Borbonica and Kentias ^{3 and 4-in. pots}

I have a fine stock of the above which is offered to the trade at a bargain. If you have room a large profit can be made on these plants in a short time. Write for prices; they are too low to quote here. **W. W. COLES, KOKOMO, IND.**

FERNS.

2 1/4-inch Mixed Ferns.....	\$3.00 per 100	Cash
2 1/2-inch Dracaena Indivisa.....	3.00 per 100	or
25 Mixed Ferns, prepaid.....	1.00	C.O.D.

WM. A. CLARK & SON 44 Boyd Street, Watertown, N. Y.

Please mention the American Florist when writing.

ASPARAGUS SPRENGERI.

3-inch pots, nice plants, \$4.50 per hundred.

J. B. HEISS, THE EXOTIC NURSERIES, DAYTON, OHIO.

SPECIALTIES

ROSES, from 3-inch pots. **In Best**
CARNATIONS, for all delivery,
CHRYSANTHEMUMS,
SMILAX, VIOLETS. **Varieties**

Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.

THE KINNEY PUMP.

For applying liquid manure it has no equal. Sent prepaid for \$2.00.

THE HOSE CONNECTION CO., Kingston, R. I.
 Please mention the American Florist when writing.

\$2 50 PER 1000.

This offer good 2 weeks only; to make room for driveway; bargain.

GIANT PANSIES, fine stocky plants, in variety equal to any.

REX BEGONIAS, 15 varieties, fine, 2-inch. \$3.50 per 100.

REX BEGONIAS, rooted cuttings, \$1 per 100.

DOUBLE DAISIES—Snowball. Giant. Long-tellow.

FORGET-ME-NOTS, in mixture.

Satisfaction guaranteed. CASH.

BYER BROS., Chambersburg, Pa.

B. & A. SPECIALTIES

AZALEAS, all sizes and varieties.

KENTIAS, 2-inch pots to 10 ft. specimens.

DUCH, FRENCH, CHINESE and JAPANESE

BULBS in all varieties and at reasonable prices.

ASK FOR FALL CATALOGUE.

BOBBINK & ATKINS, Rutherford, N. J.

500,000 VERBENAS

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 50c per 100; \$5 per 1000; \$45 per 10,000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, BLOOMSBURG, PA.

MUST BE SOLD.

Per 100
 5000 CALIFORNIA VIOLET CLUMPS, fine..... \$3.00
 5000 SPIRAEA ANTHONY WATERER, 2 feet, 2 year, old, for Easter forcing..... 7.00
 VINCA MAJOR VAR. and TRITOMA UVARIA, strong, field plants..... 5.00
 BOSTON FERN, from bench, fit for 5-in. pots, 12c.
 *SEND FOR LIST. Cash please.
BENJAMIN CONNELL, West Grove, Pa.

BEGONIA GLOIRE DE LORRAINE,

Begonia Light Pink Lorraine,

For July and Later Delivery, \$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near Cheanut Hill, Pa.

PLACE YOUR NAME.....

and your specialties before the purchasing florists of the entire country by advertising in

SEND ADVT. NOW.

THE AMERICAN FLORIST.

Orange, N. J.

FLORICULTURAL SOCIETY VIEWS LANTERN SLIDE REPRODUCTIONS OF FLORAL WORK.—MUCH INTEREST.

The November meeting of the New Jersey Floricultural Society attracted a large attendance by the display of the seventy-one lantern slides prepared by the S. A. F. for its convention in New York two years ago, and now loaned by Robert Kift in the name of that society. The pictures did their own talking, the title and artist only being called out, the discussion being among the members themselves. Opportunity was given in them for those who had not the previous privilege of viewing the best work of Thorley, Small, The Kosary, Kift, Murdoch, Graham, Breitmeyer, Pennock, Gray, Smith & Fetters, Robert Scott, Rawson and others. If our societies will only take up this matter and form a bureau where floral lantern slides may be obtained at small cost it must become very popular and will serve to build up our membership. The subjects began with simple house decorations and in succession covered weddings in house and church, public occasions, balls and dinners, and culminated in the Bradley-Martin ball and the Vanderbilt-Marlborough wedding.

JERSEY CITY, N. J.—F. Van Assche has a device for use in connection with iron sash bars in greenhouses so that the expansive movements of the iron are not communicated irresistibly to the glass.

CARLISLE, PA.—The Carlisle Nursery Company has just completed a range of five modern greenhouses. John Lindner is president of the company and H. E. Seitz, formerly with Storrs & Harrison, is manager.

VIOLETS Lady Campbell and Swanley White, 3-in. pots, \$30.00 per 1000.

Chrysanthemum stock J. S. Kull, Bon-naffon, Ivory White and Yellow Robinson and Col Appleton, at \$6.00 per 100.

Carnations sold except Daybreak, White Day-break, Mine, Chapman and Guardian Angel.

CRABB & HUNTER, GRAND RAPIDS, MICH.

BOUQUET GREEN

Best quality at lowest rates. We gather our own GREENS and bring by our own boat direct. Also CHRISTMAS TREES.

Northern Michigan Evergreen Nursery.
SCHOONER TRUMAN MOSS, S. W. Cor. Clark St.
H. Schuenemann, Capt Bridge, CHICAGO.

W. Z. PURNELL,
Dealer in

Green Sheet Moss, \$1.50 per bbl.; 5 bbls. \$6.25
Green Laurel, 2x24 ft. case, \$3.00; 5 cases, \$12.50
Long Needle Pines, 2x24 ft. case, \$1.50
Holly, select, 3 and 4 ft. branches, case, \$3.00
Mistletoe, on branches, bbl. \$5.00
Cash or satisfactory reference from unknown parties.

SNOW HILL, MD.

REDUCED RATES FOR CHRISTMAS AND NEW YEAR HOLIDAYS.

The Nickel Plate Road will sell tickets December 24, 25 and 31, 1902, and January 1st, 1903, at rate of a fare and a third for the round trip, to any point located in Central Passenger Association territory, good returning to and including January 2nd, 1903. Pullman service on all trains. Individual Club Meals, ranging in price from 35c to \$1.00, served in dining cars. Address John Y. Calahan, General Agent, 113 Adams St., Chicago, for particulars. Chicago city ticket office, 111 Adams St.; Depot, Harrison St. and 5th Ave. 65



ARECA LUTESCENS, per doz.—2 1/4-inch, 75c; 3, \$1; 3 1/2, \$2; 4, \$3.
KENTIA BELMOREANA, per doz.—2 1/4-inch, \$1.50; 3-inch, \$2; 3 1/2-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20; 6-inch, \$18.
KENTIA FORSTERIANA, per doz.—2 1/4-inch, \$1.50; 3-inch, \$2.00; 3 1/2-inch, \$3; 4-inch, \$3.60; 5-inch, \$7.20.
LATANIA BORBONICA, per doz.—2 1/4-in., 60c; 3, \$1; 6, \$7.20; 7, \$10.
PANDANUS VEITCHII, per doz.—5-in., \$12; 6-in., \$18; 8-in., \$42.
PANDANUS UTILIS, 4-in., \$3 per doz.
NEPHROLEPIS BOSTONIENSIS, per doz.—5-in., \$3; 6-in., \$6; 7-in., \$9; 8-in., \$12; 9-in., \$18; 10-in., \$24.
ASPARAGUS PLUMOSUS NANUS, 4-inch, per doz., \$1.50.
ASPARAGUS SPRENGERI, per 100—4-inch \$12.
PHOENIX CANARIENSIS, 6-inch, 16 per doz.
DRACAENA INDIVISA, 4-in., \$2; 5-in., \$3; 6 \$5; strong, \$3 per doz.
ADIANUM, 2-in., \$4; 3-in., \$8; 4-in., \$12; 5-in., \$20 per 100. Small ferns for dishes \$3 per 100
FERN BALLS, well furnished with leaves, \$3 to \$5 per doz.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

Mushroom Spawn



Frequent importations from England. Always fresh and lively.

CARNATIONS

Strong, healthy plants, grown on high land.
Portia.....100 1000 Eldorado....100 1000
Scott.....4.00 35.00 Daybreak....4.00

J. J. Styer, Concordville, Pa.

PANSIES

Roemer's Superb Prize Pansies.

STRONG, FINE STOCKY PLANTS,
Mixed colors, by mail, 75 cents per 100; \$3.00 per 1000, per 10,000, \$25.00.
Large transplanted plants, in bud and bloom, \$1.25 per 100 \$10.00 per 1000.

CASH WITH ORDER.
PETER BROWN, Lancaster, Pa.

REMEMBER when you want the BEST

Wild Smilax

that is shipped, write or telegraph
R. A. LEE, Monroe, Ala.
Quotations on application. Prices LOW.

Silliman's Mistletoe Leads.

Grown on our own preserve. Every Sprig Berried. Eleventh year. Special low rates with express companies. Packed in our patent cases, stock reaches consumer without breakage. Now booking orders for December shipment. Write for prices.

A. B. SILLIMAN & CO.
HOME OFFICE, BOONE, IOWA

WILD SMILAX EXPRESS PREPAID.

To introduce the best WILD SMILAX that grows, we will deliver by Express (Express prepaid) to any address our 30 pound cases for \$2.50 per case until December 15.

ALABAMA WILD SMILAX CO., Monroe, Ala.

FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)
Write, Wire or Phone the Introducing,
Caldwell The Woodsman Co., Evergreen, Ala.
or their agents: L. J. Kreshover, New York; J. B. Deamud, Chicago; H. Bayersdorfer & Co., Philadelphia; W. F. Kastig, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.

We have the largest stock of
ARAUCARIA EXGELSA

in the country, May importation, raised from top cuttings only.

2000 must be sold by Xmas to make room for Easter plants.
5 1/2-inch pots, 12 to 14 inches.....60 to .75
6-inch pots, 15 to 18 inches.....75 to 1.00
Specimen.....1.25

KENTIA FORSTERIANA and BELMOREANA.
5 1/2 to 6-in. pots, 25 to 30 inches high, 75 to 1.50

FICUS ELASTICA, 5 1/2 to 6-in., 18 to 24 inches high, from \$4.00 to \$5.00 per doz.

BOSTON FERNS, 6-inch pots.....40
Cash with order please. To save express mention if pots to be taken off.

A BIG MISTAKE you make if you try another Firm, because we are specialists and are large importers and carry strictly the largest and cheapest stock of Araucaria Excelsa.
GODFREY ASCHMANN,
WHOLESALE GROWER AND IMPORTER OF POT PLANTS,
1012 Ontario Street, PHILADELPHIA, PA.

VERBENA KING.



Headquarters for Verbenas. We grow more than anybody. 45 of the best select Mammoth named varieties at 60c per 100; \$5.00 per 1000; 5,000 for \$23.00; 10,000 for \$40.00.

HELIOTROPES
10 best named varieties, \$1.00 per 100; \$5.00 per 1000.

DAISIES, 4 best named varieties, \$1.00 per 100; \$8.00 per 1000.

PETUNIAS, small double white, a free bloomer, a splendid bedder, \$1.25 per 100; \$10.00 per 1000.
EXPRESS PREPAID. Satisfaction guaranteed in every respect. That cash or C. O. D. please.

C. HUMFELD, CLAY CENTER, KAN.

GERANIUMS Routed Cuttings

A surplus of Heteranthe, double scarlet, and Buchner, double white, \$1.25 per 100; \$10 per 1000. Jean Vialat, the best pink bedder, and Castellane, the best red bedder, a big lot ready, at \$2.00 per 100, or \$15.00 per 1000.

Perkins, Poitevine, Landry and Riccard, at \$2.00 per 100, or \$15.00 per 1000. (Dec. delivery.)
S. A. Nutt, at \$1.25 per 100, or \$10.00 per 1000. (Dec. delivery.)
Bounot, Castris, Acteon, Harrison, Jaulin, La Favorite and La Pilot, ready now, by the 100 only, at \$1.50 per 100.

ALBERT M. HERR, LANCASTER, PA.

IMPERIAL PANSY Finest Giant Flower in all shades and colors, separate or mixed, \$4.00 per 1000.

GINERARIA nana hyb. gigantea, Benary, Cannell and Sutton's strains, all giant flowered and dwarf or semi-high, the finest in market, 2 1/2-in., \$2 per 100. Cash please.
Shellroad Greenhouses, Crango, Baltimore, Md.
Please mention the American Florist when writing.

We are HEADQUARTERS for

PRIZE WINNING Chrysanthemums

OUR SET OF NOVELTIES WILL INCLUDE

CONVENTION HALL and F. J. TAGGART,

Winner of \$150 Prize and Gold Medal at Kansas City.

ALSO OTHER SELECT SORTS.

ALL STANDARD KINDS IN STOCK.

NATHAN SMITH & SON, ADRIAN, MICH.

CYCLAMEN

PERSICUM SPLENDENS GIGANTEUM.

Finest strain in the world, ready for immediate shipment, a splendid stock of plants, well budded, from 3-inch pots, \$6.00 per 100; \$50.00 per 1000; from 3½-inch pots, in bud and bloom, \$10.00 per 100; \$90.00 per 1000.

PAUL MADER, East Stroudsburg, Pa.

Chicago Carnation Co.
Joliet, Illinois.

VINCA VAR.

Strong field plants, \$3.00, rooted runners, 5c per 100.

BEGONIA REX, 4-inch, 8c; 3-inch, 5c.
HYDRANGEA OTKASA, field-grower, large enough for 6-in. or 8 in. pots, 10c; large enough for 15-in. tubs, 50c. Cash or C. O. D.
Ivy Leaves, 40c per 100. Cash prepaid.

H. DANN & SON, Westfield, N. Y.

PRIMROSES.

Improved Chinese. Finest large flowering fringed varieties grown. Single and double, ready for 3-inch pots, \$2.00 per 100. Cash. Enough extras will be added to every order to pay express.
JOHN F. RUPP, - SHIREMANSTOWN, PA.
The Home of Primroses.

"Fumigation Methods"

BY PROF. JOHNSON.

Every Grower needs this book..... Price \$1.00

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324 Dearborn Street,CHICAGO.

L. B. BRAGUE,

Hinsdale, Mass.

WHOLESALE DEALER IN

Christmas Trees AND Baled Spruce

FOR CEMETERY USE.



Special attention paid to furnishing in car-load lots. Write for price list and terms.

ALSO WHOLESALE DEALER IN EVERGREENS, CUT FERNS, SPHAGNUM MOSS, Etc., Etc.

100,000 PANSIES

Highest Grade, Finest Stock. The Jennings Strain.
Mr. John Lewis Childs, of Floral Park, N. Y., says of the Jennings Strain: "The largest and finest colored flowers I have ever seen." By mail 75c per 100; by express, \$4.00 per 1000; 3,000 \$11.00; 5,000 \$18.00. Separate colors same price. Large plants ready to bloom Oct. 1st, \$1.00 per 100; \$8.00 per 1000. SEED, \$1.00 per pkt.; \$5.00 per oz. CASH WITH ORDER.

E. B. JENNINGS, Lock Box 254, Southport, Conn.
Grower of the Finest Pansies.

The COTTAGE GARDENS, QUEENS, L. I.

SEND FOR PRICE LIST OF Paeonias, Herbaceous Plants, Phlox, Azaleas, Specimen Trees and Shrubs.

LITTLE POINTS IN VIOLET CULTURE

Are often the most important points. My booklet makes a specialty of the little points. If you are in any way interested in Violets you should send for a copy of it. The price is only 50 cents, postpaid.

W. H. THOMAS, Author and Publisher, CONVENT STATION, N. J.
Please mention the American Florist when writing.

A. GEORGES,

14 RUE EUGENE PELLETAN, Vitry Sur Seine, near Paris, FRANCE.

Silver Medal World's Fair 1889. Gold Medal World's Fair 1900.

LILAC DE MARLY, with flower buds, in mats plants 6 and 7 years, frs. 90 (\$17.10) per 100 frs. 750 (\$142.50) per 1000.

LILAC DE MARLY, without flower buds, plants 6 years, frs. 70 (\$13.30) per 100; frs. 600 (\$114) per 1000.

LILAC DE MARLY, without flower buds, plants 5 years, frs. 60 (\$11.40) per 100; frs. 5.0 (\$95.00) per 1000.

LILAC DE MARLY, without flower buds, plants 4 years, frs. 50 (\$9.50) per 100; frs. 400 (\$75.00) per 1000.

This variety is that cultivated in Paris. LILACS, VARIEGATED, single and double, with flower buds, in mats, plants 3 years each frs. 1 (19c.); frs. 90 (\$17.10) per 100.

LILACS, VARIEGATED, without flower buds, plants 2 years, each 80 centimes (16c); frs. 70 (\$13.30) per 100.

VARIETIES: The best cultivated in Paris - Souvenir Louis Spæth, Charles X, Michel Buchner, Mme. Casimir Perier, Mme. Lemoine, Doyen Keteleer, Comte de Choiseul, La Tour d'Auvergne, Condorcet. Grand Duc Constantin. Please mention the American Florist when writing.

Nephrolepis Bostoniensis

2½, 3, 4, 5 and 6-inch, fine plants. Prices right. Call or write

LUDWIG MOSBAEK, 8500 Anthony Ave. South Chicago, Ill.

Ericas, Palms

Flowering Plants and Bay Trees.

Cut blooms of LILY OF THE VALLEY at all seasons, \$3 and \$4.00 per 100. Write for my Wholesale Catalogue.

ANTON SCHULTHEIS, College Point, N. Y.

Orders booked now—delivery in September—for my Nephrolepis Fern

"ANNA FOSTER"

Small plants, \$25.00 per 100; larger plants prices on application BOSTON FERN now ready at \$25 and \$50 per 100 L. H. FOSTER, 45 King St., Dorchester, Mass. Please mention the American Florist when writing.

Syracuse, N. Y.

FALL FLOWERS GOOD.—CARNATIONS THE ONLY SCARCE ITEM.—FIRING LATE.—A NEW CITY PLANNED.

Chrysanthemums displayed in the windows were never better than at present. They sell from \$2.50 to \$3 a dozen. It is not expected that prices will advance much at Thanksgiving time and there will be plenty of everything, with the possible exception of carnations. Two causes have combined to make carnations scarce and of poor quality, the continued spring rains and the scarcity of coal this fall. This has proved to be a great drawback and many florists were late in firing up. Soft coal is being burned now to a great extent. Violets are coming on nicely, although not many have been picked. Roses bring from \$1.50 to \$3 a dozen and carnations from 50 cents to 75 cents, retail. Business has been good but not rushing.

The Hudson River Realty Company, of this city, has been organized with \$5,000,000 capital to build a city on the Palisades in New York. Parks will be laid out and extensive landscape work undertaken. It is to be a city for rich people. Lyman C. Smith, of this city, is heavily interested. A. J. B.

FLINT, MICH.—During the past summer Darwin P. Smith has added 10,000 square feet of glass to his place and now he is attracting many visitors by a good showing of chrysanthemums.

BAY SHORE, N. Y.—The first annual exhibition of the Suffolk County Horticultural Society was held at the Casino on November 6 and 7. The prize schedule amounted to over \$500 and a keen competition was stimulated in the various classes between the many expert professional gardeners and florists of this section. The show was well patronized by the society people.

**TO KILL ALL
Greenhouse Bugs
USE
"NICOTICIDE"**

Clean and harmless
as Fumigant or Spra.,
Ask your seedsman
for it or write to

**The Tobacco Warehousing
and Trading Co.,**

1000 Magnolia Ave., - Louisville, Ky

Reduced Rates for Thanksgiving

For Thanksgiving the Wabash will sell Excursion Tickets from Chicago to all points on the Detroit and Toledo lines, inclusive, and to points west within 150 miles, at a fare and one-third for the round trip. Dates of sale November 20 and 27; return limit November 28. For time cards and rates write.

City Ticket Office, 97 Adams St., Chicago.

The Peerless Powder Blower

EVERY GROWER SHOULD HAVE ONE.



Lightens your
Toil,
Saves Time
and Money.

PATENTED.

Distributes equally well Sulphur, Lime, Slug Shot, Tobacco Dust, Paris Green, Etc.

A Few Extracts from Testimonials:

"A great improvement over the bellows."—Emil Buettner, Park Ridge, Ill.

"We are much pleased with your Powder Blower."—John N. May, Summit, N. J.

"Can sulphur a house 20x100 feet in less than three minutes."—Chas. Schweigert, Niles Center, Ill.

"Its work is rapid and perfect; predict its universal use."—Brant & Noe, Forest Glen, Ill.

"Best thing we ever had to apply sulphur in greenhouses."—Geo. Witthold, Chicago.

If your seedsman does not catalogue it, order direct.

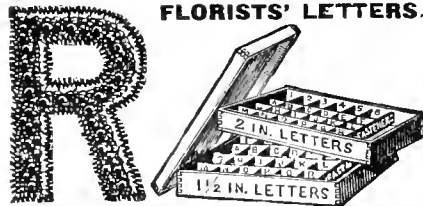
Price, \$4.00 F. O. B. Chicago.

EDW. E. McMORRAN & CO.
MANUFACTURERS,
15-21 N. Clinton St., Chicago, Ill.

Boston Florist Letter Co.

MANUFACTURERS OF

FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.
Script Letters \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hewley St., BOSTON, MASS.

Sigmund Geller

Importer and Manufacturer of

FLORISTS' SUPPLIES

Looking for Fall Novelties?
LOTS OF THEM ON EXHIBITION.
108 W. 28th Street, New York.

Please mention the American Florist when writing.



**EVANS' IMPROVED
CHALLENGE
VENTILATING
APPARATUS**

WRITE FOR ILLUSTRATED CATALOGUE
QUAKER CITY MACHINE WORKS
CINCINNATI, OHIO

BEST AND Cheapest
ALL-ROUND INSECTICIDE on the Market.

"ROSE LEAF" EXTRACT OF TOBACCO INSECTICIDE

For Sale by Seedsmen. For Free Pamphlet Write to The Kentucky Tobacco Product Co., Louisville, Ky.

Please mention the American Florist when writing.

**HORTICULTURAL
ENGRAVING & PRINTING**

To Increase

our supply of up-to-date stock cuts we will make engravings of any subject desired and sell you electrotypes for thirty-five cents per square inch. This work will be our finest grade of wood engraving, giving the same quality that characterizes our work. Send us photographs, or sketches of your needs or the objects and we will make the engravings direct from them. We can supply at short notice and at list price any

Stock Electrotypes

sold by any house if you will send us the number, print or description.

For the Seedsman

who desires exclusive engravings we desire to say that we shall still adhere to our principle of protection and shall give his work the same careful attention as in former years. We make every style of engraving and do printing of every description to help the horticulturist to place his products before the buying public in an attractive manner.

JAS. M. BRYANT.
706 CHESTNUT STREET
PHILADELPHIA PA.

NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn, N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

**The Model Extension
Carnation Support.**



Flushing, Long Island,
Dec. 11th, 1901.
MR. THERON N. PARKER,
Brooklyn, N. Y.

Dear Sir— I have used your Wire Carnation Support the last two years, in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.

Very truly,
A. L. TBORNE.
La Fayette, Ind.,
July 8th, 1902.
MR. THERON N. PARKER,
Harrison, N. J.

Dear Sir— After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season.

We were much pleased with the simplicity, strength and neat appearance of the support

Yours truly
F. DORNER & SONS CO.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.

Please mention the American Florist when writing.

Buy From the Oldest and Largest Florists' Supply House in America



WE KNOW your needs, are familiar with foreign sources of supply, we understand values and can always supply the best article at the lowest cost.

For Thanksgiving and the Holidays, it is time to stock up now. We have a most remarkable variety of beautiful flower baskets, **styles of to-day**, violet boxes, violet handkerchiefs, cords and tassels, etc., etc.

For Christmas, our scarlet immortelle bells in three sizes are leaders. The demand for them is enormously large. Order now. Immortelles in quantity, all colors; cape flowers, all fresh; imported holly wreaths, designs and flowers in metal and porcelain. Cycas wreaths and leaves, laurel and other preserved foliage, doves, sheaves, matting, flower pot covers, jardinières in endless assortment; in fact anything and everything used or sold by progressive American florists, whether imported or of home production.

H. BAYERSDORFER & CO.,

Manufacturers and Importers of all

FLORISTS' SUPPLIES

50-52-54-56 North Fourth St., Philadelphia, Pa.

Providence, R. I.

TWO WEEKS OF QUIET TRADE.—BETTER THINGS LOOKED FOR NOW.—TWO NEW FLOWER ESTABLISHMENTS.

Business for the week averaged fair, with no special demand for anything. Violets seemed to go slow and cut flower trade was at a standstill. Saturday was the poorest windup we have had this season, although the weather was clear and the downtown district was crowded by spectators. A trip through the trade revealed general dissatisfaction. This made two weeks of quiet business, but we look for improvement now.

Another new flower house is being erected on Manton avenue, Olneyville, and is to be run as a retail stand. This section of the city does not offer great inducement to an ambitious florist, as it is situated among the mill classes, who are not regular flower buyers.

Albert, who was foreman for L. Williams, has erected a greenhouse plant and started in for himself. He was with Mr. Williams for about ten years and is well experienced.

Mr. Cranshaw formerly operated a store on Cherryville Square, but found it hard to interest a transient trade, although funeral work was fairly good. M. M.

SALT LAKE CITY, UTAH.—Liberty Park is to have a new greenhouse 21x150, with boiler house 35x50, the cost to be \$7,000.

WASHINGTON HEIGHTS, ILL.—D. S. Heffron, an old horticulturist of note, has been in poor health for some time. He is now over 80 years of age. Mr. Heffron was the original introducer of the Early Rose potato.

NORTHAMPTON, MASS.—City Forester Clarke has issued a circular letter urging upon town authorities and village improvement societies the importance of doing everything possible to prevent the destruction of roadside trees and groves for fuel purposes during the present scarcity of coal.

IF YOU WANT BEST VALUE IN

Prepared Palms

or Palm Materials for Manufacturers. etc..

Write to **CLARE & SCHARRATH,**
55 Washington Street, CHICAGO, ILL.

KIFT'S PATENT ADJUSTABLE VASE HOLDER

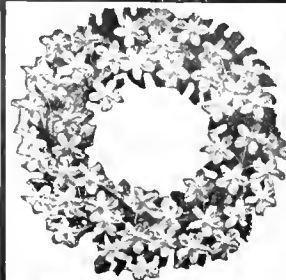
No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$2.25. Price complete (with green or white corucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nickle, with three clasps for 5 to 6-inch pots, each \$1.75.

KIFT'S PATENT Rubber Capped FLOWER TUBES, 1 1/2 inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.
Please mention the American Florist when writing.

Hot Springs, Ark.

Via the Wabash.

Commencing Nov. 9, the Wabash established its system of through Pullman tickets from Chicago to Hot Springs, Ark., via St. Louis and the Iron Mountain Route. Passengers leaving Chicago on the Wabash fast day express, at 11:03 a. m., will arrive at Hot Springs next morning at 8 o'clock. For illustrated printed matter giving full information regarding this wonderful health and pleasure resort, address F. A. Palmer, Asst. Gen. Pass. Agt. Wabash R. R., 97 Adams St., Chicago.



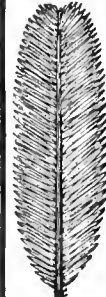
No. 37. Round Daisy-Leaf Frame, 15 inches diameter, trimmed with purple, white or pink violets. Each, 75c.



No. 80. Round Chrysanthemum-Leaf Frame, leaves shaded, 15 inches diameter, trimmed with St. Joseph lilies and lily leaves. Each, 75c.



No. 1020.



Sago Leaf.

No. 1020 Sago Wreaths, trimmed with lilies and grasses, 35c each.

SAGO LEAVES, METAL WREATHS our own manufacture, the best preparation only and guaranteed a first-class leaf. From 18 to 36 inches long, in lots of 50, \$4.50; per 100, \$8.00.

SAGO LEAVES, METAL WREATHS

From 15c, up to the latest designs, as standing crosses, standing wreaths, and in fact any design that can be made up on natural flowers will be furnished in any color and style to suit your wishes.

ASK FOR MY ILLUSTRATED CATALOGUE OF METAL GOODS OR FOR MY ILLUSTRATED CATALOGUE OF DECORATIVE PLANTS.

FRANK NETSCHERT 34 Barclay Street, NEW YORK.
187 S. Clark Street, CHICAGO.

Tobacco Stems...

FRESH and STRONG.
Bale of 300 pounds, \$1.50
Cash with order.

W. C. BECKERT, Allegheny, Pa.

SIEBERT'S ZINC NEVER RUST GLAZING POINTS
Two sizes, 5/8 and 3/4, 40c a lb.; by mail, 10c extra. 7 lbs. for \$2.50; 15 lbs. for \$5.00, by express.

Over 6,000 lbs. now in use. For sale by seedsman or
CHAS. T. SIEBERT, Sta. B, Pittsburg, Pa.

Horticultural Builders & Heating Engineers Phillips Mfg. Co.

Established 1900. **JERSEY CITY, N. J.**
In 26 months we have built for private estates 87,347 square feet of Glass Houses and have orders for still more. We are just completing a Range for Oakwood Cemetery, Syracuse, N. Y. We want your patronage. Tel. 1851 Bergen.

The Florists' Hail Asso'n Pays Losses Promptly.

Reserve fund \$10,000. For particulars address
JOHN G. ESLER, SADDLE RIVER, N. J.

THANKSGIVING DAY EXCURSIONS
at rate of a fare and a third on all trains of the Nickel Plate Road, on November 26th and 27th, to points within 150 miles, and good returning to and including November 28th. Chicago Depot, Grand Central Station, Harrison St. and Fifth Ave. City Ticket Office, 111 Adams St. Phone Central 2057. 59

Miniature Baby Greenhouse



FOR GROWING SMALL PLANTS. Two sizes. No. 1. 11 1/4 x 12 1/2 and 11 inches high. No. 2. 15 x 16 1/2 and 15 1/4 inches high. Are folded up in compact package of about one cubic foot; weight about 18 pounds.

SMALL OR No. 1 SIZE.		LARGE OR No. 2 SIZE.	
1 house.....	\$ 4.50	1 house.....	\$ 6.50
2 houses.....	8.50	2 houses.....	12.50
4 houses.....	16.50	4 houses.....	24.00
6 houses.....	24.00	6 houses.....	34.50

SIEBRECHT & SON, NEW ROCHELLE, N. Y.

The Standard



The lightest running, most rapid and powerful ventilating machinery in the market.

DUPLEX GUTTERS

Made of wrought or cast iron with self-adjusting sash bar clips. The only Drip Proof Metal Gutter offered to the public. Send for my catalogue free.

E. HIPPARD, Youngstown, O.

It is good business policy to mention the

American Florist

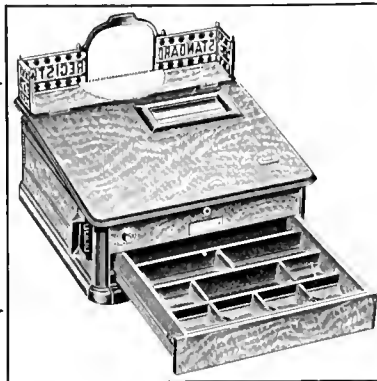
When you write to an advertiser.

THE FLORIST'S FAITHFUL ACCOUNTANT

....IS FOUND IN....

The Standard Autographic Cash Register

Compels you to be CAREFUL AND SYSTEMATIC.



THIS IS OUR No. 2.

Price Only **\$30.00**

Mechanism Accurate

— BUT NOT —
INTRICATE.

NOTE COMMENTS OF USERS:

"My only reliable witness in disputed accounts."
"It has paid for itself several times in correcting errors."
"I can tell at night not only amount sold during the day, but what the articles were."

"I could not possibly get along without one."
"I would not do without it for live times its cost."
"I have had this register in constant use for eight years and it is all right."

Hundreds of other similar voluntary commendations on file.

Address **STANDARD CASH REGISTER CO., Dept. F, Wabash, Indiana.**

Wired Toothpicks

10,000, \$1.50; 50,000, \$6.25. Manufactured by
W. J. COWEE, BERLIN, N. Y.
Sample Free. For sale by dealers.

LEADING Florists' Supply House M. RICE & CO.

Importers and Manufacturers,
918 Filbert Street, PHILADELPHIA, PA
Catalogue for the asking.

Please mention the American Florist when writing

HEADQUARTERS FOR HORTICULTURAL SUPPLIES Of Every Description.

When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

DUNNE & CO., 54 W. 30th St., New York.
Telephone Call, 1700 Madison Square.

REED & KELLER, 122 West 25th St., NEW YORK.

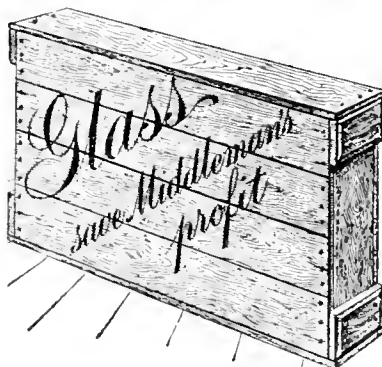
Importers and Manufacturers of
FLORISTS' SUPPLIES.

Galax Leaves and all Decorative Greens.

It is good business policy
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When you write to an advertiser.



"Most perfect results obtained under FRENCH GLASS."

Established 1847. SEMON BACHE & CO.

7, 9, 11 Laight Street,
NEW YORK.

FRENCH GLASS

Direct shipment from abroad.

Please mention the American Florist when writing.



Sprague Smith Co.

PLATE AND WINDOW GLASS
Greenhouse Glass a Specialty
205 Randolph Street, CHICAGO

H. M. HOOKER CO.

Window Glass, Paints and Putty,
Greenhouse Glass a Specialty.
59 West Randolph St., CHICAGO.

Cleveland.

CLUB MEETS AND PLANS A LADIES' NIGHT. — COMMITTEE APPOINTED. — STORY OF WESTERN SHOW.

The regular club meeting on Monday evening last was well attended. John Mollenkopf was elected to membership. By a unanimous vote it was decided to hold a ladies' night the first Monday in December. The ladies will be entertained by the members. Wm. Stadie, F. C. Bartels and Henry Kunz were appointed a committee to make all necessary arrangements. A great time is promised and no member should fail to be on hand on that evening. Isaac Kennedy entertained the members with a little talk on what he saw at the Kansas City flower show. ECHO

JACKSON, MICH.—W. R. Tubbs, proprietor of the Sunnyside Greenhouses, has retired from business.

KEOKUK, IA.—Laisle & Haines have their stock in good shape and report fall business opening nicely.

INDIANAPOLIS, IND.—Walter Bertermann has been at Cleveland and Wm. Billingsly and A. Baur at Richmond, Ind., this week.

NEGAUNEE, MICH.—The Negaunee Nursery and Greenhouses has about 7,000 feet of glass well stocked for fall trade. Chrysanthemums are making a fine show just now.

CENTERVILLE, IA.—S. A. Love & Company have owned the Oak Park Greenhouses less than a year but they have improved the place greatly and stand at the opening of a prosperous season.

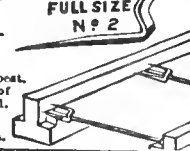
THE
King Construction Co.

New Roof Construction.
Automatic Stokers
for burning Soft Coal Slack.
Water Tube
Steam Boilers.
Automatic and Hand-
Power Ventilators.

The Designing of large ranges and heating plants a specialty.

337 3rd St., Niagara Falls, N. Y.

Holds Glass Firmly
See the Point **PEERLESS**
FULL SIZE No. 2



Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Phila., Pa.

Boilers OF HIGH GRADE...
For GREENHOUSES.

See Our Catalogue
Steam and Hot Water. **Giblin & Co., Utica, N. Y.**

HOT
BED
SASH,
NOW READY.

Delivered price anywhere on lots of one dozen or more. Guaranteed in every way.

THREE SIZES.

3 ft. x 6 ft.....3 rows 10-in. glass
3 ft. 3-in. x 6 ft.....4 rows 8-in. glass
4 ft. x 6 ft.....5 rows 8-in. glass

Clear Cypress 1 1/4-inch thick, without paint or glass.

RED CEDAR POSTS.

All Heart Cypress Lumber for Greenhouses.

Write for circulars, plans and estimates.....

LOCKLAND LUMBER CO.
LOCKLAND, O.

SOMETHING ENTIRELY NEW.
A Florists' Plate Book.

150 Plates and nearly 300 varieties for \$3.50 or three for \$10.00.
You can't do business without it.
VREDEBURG & CO., Rochester, N. Y.

A. HERRMANN,

✦ Cape Flowers, all colors,
✦ Cycas Leaves, Metal Designs,
✦ and All Florists' Supplies.
Send for Prices.
404-412 East 34th St. NEW YORK.

Fumigating Kind Tobacco Powder
KILLS ALL APHIS IN ONE NIGHT
in a house 10x25 ft., at a cost of 10c. A 5 lb. trial pkg. will cost nothing if you will pay the express charges on it. Our booklet tells of it. Write Dept. C for it.
The H. A. STUTHOFF COMPANY
116, 117, 118 West St., N. Y. City

FOR THANKSGIVING DAY
the Nickel Plate Road will sell tickets within distances of 150 miles, November 26th and 27th, at rate of a fare and a third for the round trip. Tickets good returning until November 28th, inclusive. This road has three express trains daily to Ft. Wayne, Cleveland, Erie, Buffalo, New York and Boston, with vestibuled sleeping cars. Also excellent dining car service, meals being served on Individual Club Plan, ranging in price from 35c to \$1.00; also a la carte. For reservation in sleeping car or other information, address John Y. Calahan, General Agent, 113 Adams St., Room 298, Chicago. City Ticket Office, 111 Adams St. Phone Central 2057. 60.

Bargains
FOR
Florists.

We are headquarters for a general assortment of the necessary material and supplies that you are looking for. If you are about to improve or construct, consult us.

In connection with the dismantling of the Pan-American Exposition, we have for sale:
20,000,000 FEET of fine seasoned lumber, practically new, consisting of all sizes of joists, timbers, dressed and matched boards and flooring; also sash and doors.
50,000 FEET of roofing glass.

PIPE.

We are headquarters for pipe. We offer you:
100,000 FEET of 2 to 4-inch wrought iron, lap welded casing. We can furnish this material in three ways: Either with sleeve or jacket couplings, screwed ends and threaded couplings or with expanded cast iron flanges with bolts and nuts.

1,000,000 FEET of standard black wrought iron pipe, size 3/8 to 12-inch. It is second-hand but has new threads and couplings and is in first-class condition.

1,000 TONS of galvanized wire 9, 10, 11, 12, 13, 14 and 15 gauge.

50,000 FEET of 2, 3 and 4-inch cast-iron soil pipe and fittings.

100,000 FEET of garden hose, 3/4 and 1-in.

75,000 FEET of cotton rubber-lined fire-hose, (rubber-lined in and outside), ranging in sizes 1 to 2 1/2-inch.

VALVES and fittings of every kind.
BOX COILS for heating purposes.
RADIATORS, new and second-hand.

We also offer the following bargains in

Heating Boilers

50 CAST-IRON sectional heaters, capacity from 450 to 5,000 feet.

1 NO. 2 Standard Kroeschell hot water heating boiler.

FOUR 36x10 Horizontal Tubular.

FOUR 36x12 Horizontal Tubular.

FIVE 42x10 Horizontal Tubular.

FIVE 42x12 Horizontal Tubular.

SIX 48x14 Horizontal Tubular.

TWO 54x16 Horizontal Tubular.

FOUR 60x16 Horizontal Tubular complete with all fittings.

PUMPS of all Descriptions.

A carload of shovels and spades that we are selling at \$5.00 per dozen.

We carry a complete stock of hardware and farm implements, besides plumbing material of every kind.

Write for Catalogue No. 47.
Chicago House Wrecking Co.,
W. 35th and IRON STS., CHICAGO, ILL.



RANGE OF TEN DIETSCH SHORT-SPAN GREENHOUSES BUILT THE PAST SEASON BY GEORGE REINBERG, CHICAGO.

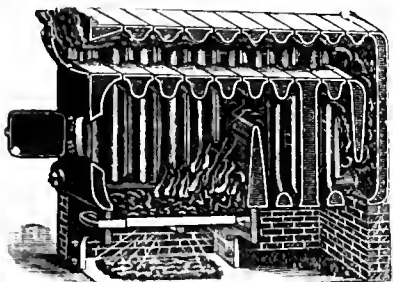
In heat of summer Mr. Reinberg found these houses at all times from 9 to 15 cooler than old-style wide houses adjoining, due to better ventilation. H. A. Dreer, Riverton, N. J., has a similar range. Write us for list of other places where this popular new style of construction may be examined. You can prove our claim that it includes the following

Advantages Not Possessed by Any Other Method:

- | | |
|---|---|
| <p>1st Largest bench room obtainable; all benches equally good.</p> <p>2d Safe construction; roof a perfect truss; no high peaks.</p> <p>3d Best ventilation; a run of ventilators to every two benches.</p> | <p>4th Least shade possible with any method of roof and wall construction.</p> <p>5th Ease of construction; greatest durability at minimum of expense.</p> <p>6th Every requirement of modern construction fully provided for.</p> |
|---|---|

These advantages appeal to everyone and this style of construction has the endorsement of many prominent growers. Let us give you an estimate; the figures will be so low they'll surprise you; the work is so good it will please you.

A. DIETSCH & CO., 615-621 Sheffield Ave., CHICAGO.



The American Champion Boiler

Is wat hes kept th Wether so warm this fall.



THE EVERLASTIN HINGE.

MR EDITUR

i Bored a plug hat frum the maer uv our Village and Kised Samantha Jane an the Kids an Kum up tew Chi-Kago ter se the National Kris-anthem Sho, fur i thot that any thing that wuz so long a bornin must be wurth seein. The society is purty old but this is the fust baby and it autto be a Peach, an then I wanted tew se al the ole Florists wat ive node so long an tel em about mi

**Biler an Hinges
an New Departure
Ventilatin Kontrapshins**

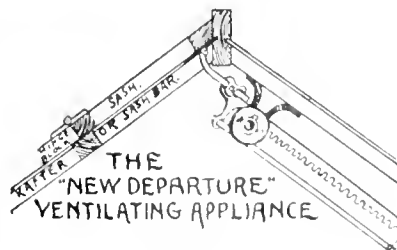
fur fear thaid furgert them an the ole man tew. an if each one of you fellers 'll giv me a posey ile take a BoK hum to Samantha Jane with your Kompliments an she 'll send each uv u a Kis by telephone an wont eat onions that day either. Mi name is

J.D. Carmody

an i live in **Evansville, Indiana**
Klose to Posey Kounty



This is mi Picter



THE "NEW DEPARTURE" VENTILATING APPLIANCE

Pittsburg.

BUSINESS BRISK.—STOCK BOTH PLENTIFUL AND GOOD.—DELIGHTFUL WEATHER.—NOTES HERE AND THERE.

Double violets will be one of the principal staples until Easter and a prodigious number will be sold in Pittsburg during that period. Orchids and gardenias are being called for to a considerable extent. Swainsona has made its appearance, also bouvardia and Harrisii lilies. Local weather conditions have been perfect for the past two weeks and the sunshine has gladdened the hearts of our growers. Beauties seldom reach a higher state of perfection and with the gorgeous colors of the chrysanthemums cause each flower store to be delightfully attractive. Carnations deserve special mention, as they are of a very choice quality and our home growers are producing the best on sale here. Lily of the valley is very good and Paper White narcissi are fine. Greens are plentiful. Business is good.

The sale of plants during the last two months has been large. Cycas revoluta, kentias and Boston ferns seem to be the best sellers. Cibotium Schiedeii is the cause of many inquiries and is a fair seller. Crotons appear to be popular and most other items have sold well.

Elmer E. Siebert, superintendent of Highland Park, whom the city controller refused to pay, has been dismissed and William Bailey, a clerk in the recorder's office, has been appointed to the position.

The greenhouses of George Gibbs, at Woodville, were visited by a disastrous fire one night this week. He had sixteen houses and my information is that the whole plant was destroyed.

C. H. Roney, superintendent of the Lakeview Rose Gardens, at Jamestown, N. Y., spent a few days in the city last week, visiting the stores and various plants around Pittsburg.

J. & H. Porter have opened a store in connection with their houses at 411 Stokes avenue, Braddock.

Henry Eichholz, of Waynesboro, is sending in some remarkably fine chrysanthemums. E. L. M.

TIN FOIL

Plain, Fancy, Printed & Mounted,

Manufactured by

The Conley Foil Co.

521 to 541 West 25th St.,
NEW YORK.

WESTERN FLORISTS...
can save money in buying

SUPPLIES

from **BARTELDES & CO.,**
1521 15th Street, Denver, Colo.

We are now booking orders for Christmas Decorations. Get our prices at once.

FRANZ BIRNSTIEL,
COBURG, GERMANY.

Baskets, Puerto Rico Mats, Cycas, Waterproof Crepe Paper, Glass, China.

LATEST NOVELTIES IN ALL FLORISTS' SUPPLIES.
FOR THE WHOLESALE TRADE ONLY.

DILLON'S GREENHOUSE MFG. CO. Bloomsburg, Pa.
MANUFACTURERS OF HOT BED SASH, AIR DRIED GULF CYPRESS SASH BARS AND OTHER GREENHOUSE MATERIAL.
BUILDERS OF DURABLE AND PRACTICAL Greenhouses at a LOW COST.

Our descriptive circular contains valuable information for every florist. Send for it.

Standard Flower Pots

The **WHILLDIN POTTERY COMPANY,**
PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
Travelling Representative, U. CUTLER RYERSON, 108 Third Ave., Newark, N. J.



STANDARD FLOWER POTS!

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2-in., in crate,	\$4.88	120 7-in., in crate,	\$1.20
1500 2½ "	5.25	60 8 "	3.00
1500 2½ "	6.00	48 9-in., in crate,	\$3.60
1000 3 "	5.00	48 10 "	4.80
800 3½ "	5.80	24 11 "	3.60
500 4 "	4.50	24 12 "	4.80
320 5 "	4.51	12 14 "	4.80
144 6 "	3.16	6 16 "	4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward N. Y.
Or **AUGUST ROLKER & SONS,** New York Agents,
31 Barclay Street, New York City.

KELLER BROS.

213-15-17-19-21-23 Pearl St.,
NORRISTOWN, PA.

Manufacturers of Standard Flower Pots, red in color, equal to the best on the market; are 16 miles from Philadelphia, best of railroad connections. We give special attention to mail orders and make special sizes to order in quantities. A postal will bring prices and discounts.

WRITE

A. F. KOHR, 1521-23 N. LAVITT ST.,
CHICAGO, ILL.,
FOR PRICES OF

Standard Pots

which for strength and porosity combined are the best on the market.

RED POTS

SAMPLE POT AND PRICE LIST
ON APPLICATION.

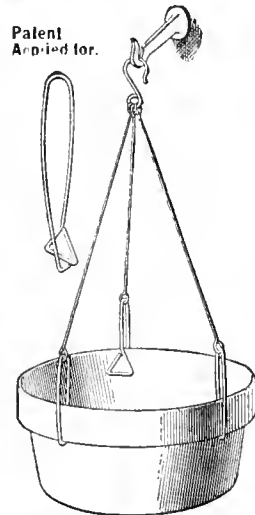
C. C. POLLWORTH CO., MILWAUKEE, WIS.

American Florists
Ads

Always do business,
Week days and every day
Sundays and holidays,
All over the country,
At home and abroad.

Kramer's Pot Hangers

Patent Applied for.



THE neatest, simplest, most convenient and only practical device for converting ordinary flower pots into hanging baskets. They fit all standard made pots from 2 to 10 inches in diameter. The illustration shows how they are attached. Just the thing for hanging up ferns, begonias, etc. You can make room and money by their use. Try them.

Price with wire chain as shown in cut, \$1.00 per dozen by express. Sample doz. by mail, \$1.25.

I. N. KRAMER & SON,
CEDAR RAPIDS, IOWA.



GEO. KELLER & SON,

MANUFACTURERS OF
FLOWER POTS.

Before buying write for prices.
361-363 Herndon Street,
near Wrightwood Ave.,
CHICAGO, ILL.

THOSE RED POTS

"STANDARDS"

FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'FY,

HARRY BALSLEY, DETROIT, MICH.,
Rep. 490 Howard St.

Standard Flower... **POTS**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.

FLOWER POTS
ALL KINDS.

STANDARD POTS A SPECIALTY

List and SAMPLES FREE,

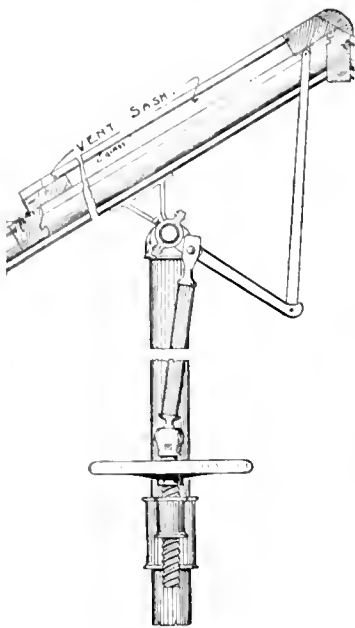
SWANN'S POTTERY MFG CO.,
P. O. Box 78, MINNEAPOLIS, MINN.

FOR SOMETHING NEW AND NICE

"Cluster of Roses Stationery"

for Florists, is the latest. Both plain and in colors. Samples free by

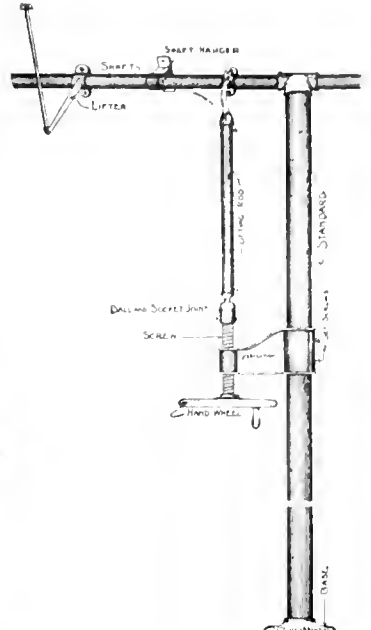
DAN'L B. LONG, Publisher, BUFFALO, N. Y.
Please mention the American Florist when writing.



Materials

OF ALL KINDS FOR

Greenhouse Construction



Patent Applied For.

Our "Perfection"
Lifting Apparatus is the cheapest, simplest and quickest on the market. Works easily and is very powerful.

Hot Bed Sash, Hinges for Ventilating Sash AND OTHER MATERIALS.

SEND FOR OUR NEW ILLUSTRATED FREE CATALOGUE.

Foley Manufacturing Co., Chicago. Office, 471 W. 22d St. Factory and Lumber Yard, 474-498 W. 21st Place.

Please mention the American Florist when writing.

<h1>GLASS</h1> <p>Price lists and illustrated pamphlets Gladly furnished on application.</p>	<p>The Best, Double Strength for Green or Hot Houses.</p> <p>All Orders Shipped Promptly.</p> <p>John Lucas & Co. 320 Race Street, Philadelphia, Pa</p>	<h1>GLASS</h1> <p>Lucas Putty Does not Evaporate</p>
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CYPRESS
 IS FAR MORE DURABLE THAN PINE.
CYPRESS SASH BARS
 UP TO 32 FEET OR LONGER.
GREENHOUSE AND OTHER BUILDING MATERIAL.
 MEN FURNISHED TO SUPERINTEND ERECTION WHEN DESIRED.
 Send for our Circulars.
THE A.T. Stearns Lumber Co.,
 NEPONSET, BOSTON, MASS.

Please mention the American Florist when writing.

D. W. Payne & Co.'s Latest Invention Over a Coil Boiler
 We have now constructed a Hot Water Boiler on piping or manifolds. It consists of hollow, bevel pointed cast stars with hollow hub, both sides of each hub being threaded 3/4-inch, so each star will screw into one another, built upright over grates. The hollow bevel points are cast solid to hub with 1 1/4-inch water space into hub. There are 8 points to each star, which stand out over grates; except the lower star which has two inlets 3-in. This boiler is encased in brick work. Send for circulars and testimonials. **D. W. PAYNE & CO., BOX 153, PORT CLINTON, OHIO.**

Steam Traps SAVE COAL

This is the Return Steam Trap used by the Up-to-date Greenhouse men to return the condensed water from the heating coils in their greenhouses. **Have been in use for this purpose over thirty years.**
Insures an Even Temperature.
 Send for Red Catalogue.
Albany Steam Trap Co.
 ALBANY, N. Y., U. S. A.

WE NOW OFFER

"Chemicals"

for making **LIQUID COMPOST.**
 Dry powders all soluble in water. Composts cost less than 1/2c per gal. Correspondence invited.
EASTERN CHEMICAL COMPANY,
 620 Atlantic Ave., Boston.

GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs ...

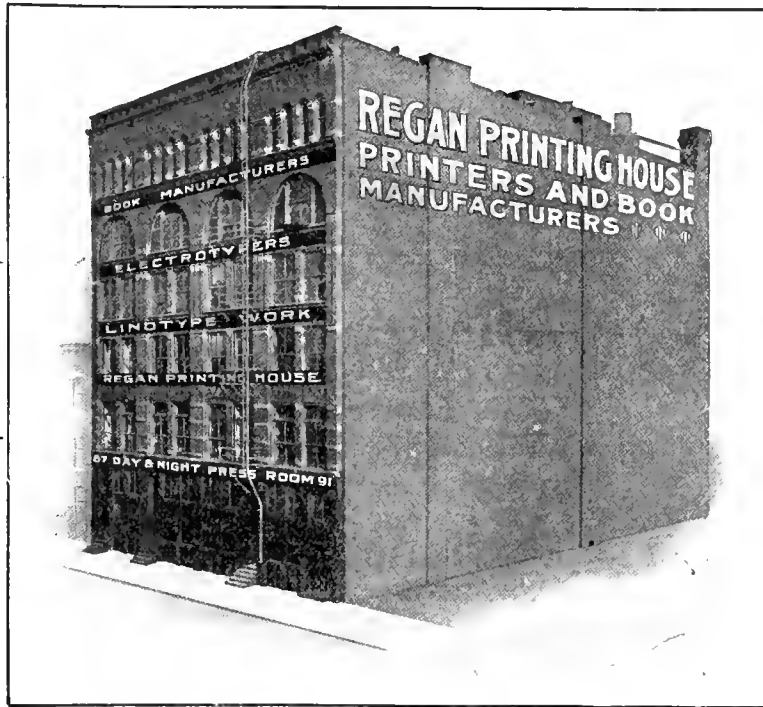
\$2.00 Per Year. Sample Copies Free.
 Liberal terms to florists who take subscriptions.
THE GARDENING CO., MONON BUILDING, Chicago, Ill., U.S.A.

— THE —

Regan Printing House

87-91 Plymouth Place

Chicago.



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Pamphlets.

Newspapers
AND
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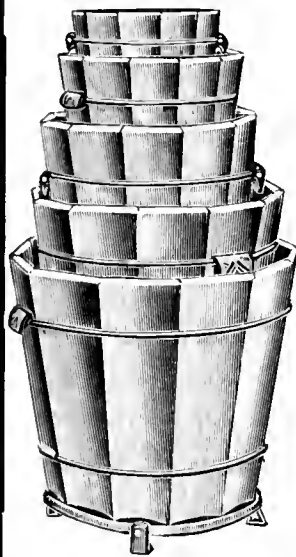
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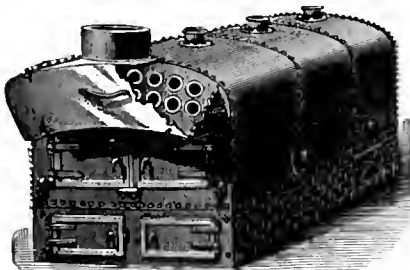
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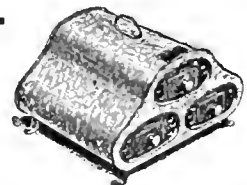
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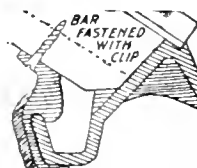
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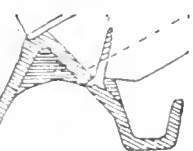
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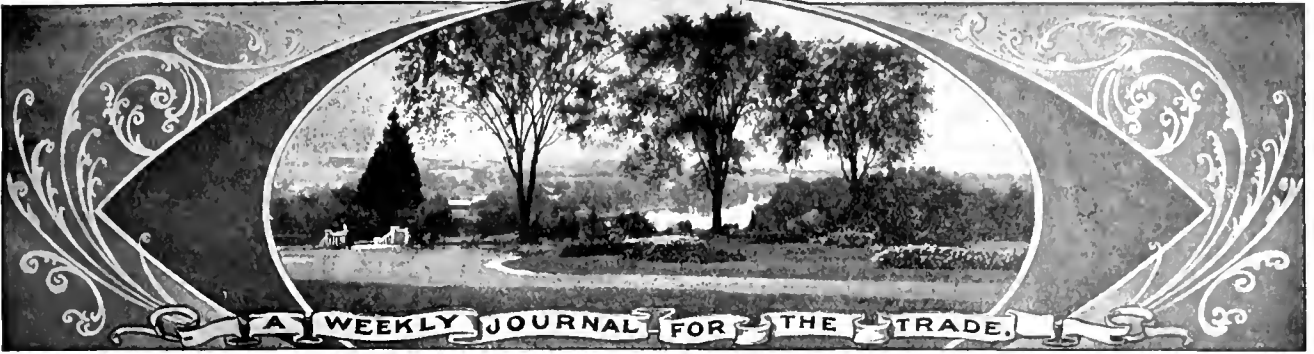
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Vol. XIX. CHICAGO AND NEW YORK, NOVEMBER 22, 1902. No. 755.

THE AMERICAN FLORIST

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 OFFICERS-ELECT—JOHN BURTON, president; C. C. POLLWORTH, vice-president; secretary and treasurer as before. Nineteenth annual meeting at Milwaukee, Wis., August, 1903.

THE AMERICAN CARNATION SOCIETY.
 Annual convention at Brooklyn, N. Y., February, 1903. ALBERT M. HERR, Lancaster, Pa., secretary.

AMERICAN ROSE SOCIETY.
 Annual meeting at call of executive committee, LEONARD BARRON, 136 Liberty St., New York, secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.
 Annual convention subject to call of executive committee. EDWIN LONSDALE, Chestnut Hill, Pa., secretary.

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THE EXHIBITIONS.

New York.

The American Institute exhibition was an unqualified success. Better blooms are seldom seen. Julius Roehrs staged a splendid group and so did G. H. Hale, gardener to E. D. Adams, Seabright. Of chrysanthemum plants, there were good specimens from John G. McNicoll, gardener to G. C. Rand, Lawrence, L. I.; James Bell, gardener to R. L. Burton, Cedarhurst, L. I.; Howard Nichols, gardener to Mrs. J. B. Trevor, Yonkers, and Alex. McKenzie, gardener to T. J. Taylor, Cedarhurst.

On cut blooms A. Herrington, Madison, N. J., carried off the trophy for fifty with Eaton, E. G. Hill Company, Richmond, Ind, second with Yellow Eaton. Wm. Duckham was first for twenty-five named varieties and Alex. McKenzie for best twelve, Mr. Herrington for five blooms of six varieties. J. G. McNicoll was first on six each of G. W. Childs, T. Carrington, Mrs. Barelay, reflexed, "any other" red and yellow. Mr. Herrington was first for six Jeannie Falconer, Appleton, Golden Wedding, Vivian-Morel, Merza, Eaton and Kate Broomhead. James Bell was first for six incurved and six Bonaffon. E. G. Hill was first for John Shrimpton. Wm. Scott first for Mrs. Weeks and "any other" white. E. G. Hill Company was first for "any other" pink. Special premiums in these classes were awarded to Wm. Duckham, G. H. Hale and Wm. Scott. There was also a showing of hardy chrysanthemums.

In roses L. M. Noe, Madison, was first for Beauty and G. H. Hale for tea scented white and pink and Mr. Noe again on "any other color." The carnations shown by Jas. T. Scott, of the Boys' House of Refuge, Randall's Island, were excellent. Violet winners were Lyons & Strickland, Milton, N. Y.; C. G. Velie & Son, Marlboro; Wm. Slack, Stamford, Conn., and Geo. T. Schueneman, Baldwin, N. Y.

Howard Nichols brought the best specimen palm and G. H. Hale the best fern. Mr. Nichols set the best table centerpiece. Special premiums for plants were awarded Lager & Hurrell for orchids, Howard Nichols for Adiantum Farleyense, J. P. Sorenson, Stamford, Conn.; for antigonons; H. T. Clinkaberry, Trenton, N. J., for orchids; the F. R. Pierson

Co., for ferns; Alex. McKenzie for poinsettias, and A. Herrington for Gerbera Jamesoni. Certificates were given C. H. Allen for white Mrs. Lawson carnations and E. G. Hill Co. for Yellow Eaton and R. E. Richardson chrysanthemums.

New Haven, Conn.

The second annual show of the New Haven Horticultural Society, November 11-13, found the weather and the exhibits each all that could be desired. The society young ladies who served refreshments and sold flowers were a popular feature. Music Hall, in which the exhibition was held, was appropriately decorated and was just the right size for the exhibits assembled. Plants from J. N. Champion, Yale Botanic Gardens and the Elm City Nursery Company, for decorative purposes, and handed to advantage by Manager Gus. Amhryn, made a pleasing effect.

The classes for groups and cut flowers were well filled and the stock was clean and well grown. A feature of the show was an exhibit by the combined Hartford florists, an immense pyramidal basket, standing nearly eight feet high composed of cut flowers, berries and grasses. It was escorted by a full delegation of the Hartford boys, who will justly apportion the certificate of merit awarded, each having his own individual piece framed. J. F. Huss, who acted as tactotum for the delegation and who, as usual, wore a wreath of smiles, showed a fine specimen standard chrysanthemum, F. Carrington, receiving first prize. He also received first for best bloom in the show with a magnificent flower of Timothy Eaton.

The S. A. F. silver medal for new and meritorious plants was awarded to David Kydd for his new Begonia Kyddii, B. metallica × B. Scharlhana, a very useful hybrid showing the characteristics of B. metallica in the foliage and the long flower spikes of B. Scharlhana, with the soft pink color of the former.

The silver cup for the best fifty square feet of foliage plants was won by Robert Patton, gardener to Mrs. Bennett, with a well grown collection. David Kydd, gardener to W. F. Wayland, was a close second.

For three stove plants James Morrison, gardener to James E. Hubinger, won with three splendid marantas. He also was first for best six chrysanthemums, Yale Botanic Gardens coming second.

The silver cup for the best twenty-five chrysanthemums in 6-inch pots went to David Kydd. Notable were Silver Cloud, Silver Wedding, G. W. Childs, Major Bonnaffon, Lavender Queen and G. Vanderbilt. Mr. Kydd also won the R. & J. Farquhar prize for group of specimen plants.

Among the plants especially noticeable were the Cosmos Klondike and the Begonia Gloire de Lorraine shown by Jno. Doughty, who also showed a plant of the new Gerbera Jamesoni.

E. Carroi showed some nice ferns, including Cibotium Schiedeii. Jno. N. Champion had the only table decoration, with a center piece of yellow chrysanthemums.

Charles Munro, Frank Kimberley, Gustave Ginter and the Robert Veitch Co. also showed good stock. S. J. Reuter took most of the carnation premiums.

Chicago.

The flower show closed with a very large attendance and a highly satisfied public. There is no shade of exaggeration in the statement that it was, all things considered, the best flower show ever given in Chicago and many accord it first place in the history of flower shows in the United States. Certainly no better stock was ever shown. There is some regret that a larger hall was not chosen, but it is well to be content with the success achieved; let the energy go into preparations for next year.

Among the special awards not mentioned last week was the C. D. Peacock silver cup for best vase of chrysanthemums in the show, which went to H. W. Buckbee for the vase of Mrs. Jerome Jones illustrated in the last issue. The C. L. Hutchinson silver cup went to the Chicago Carnation Co., for Fiancee, which was also awarded the S. A. F. silver medal for new variety.

Nathan Smith & Son were awarded the S. A. F. bronze medal for their new yellow chrysanthemum F. J. Taggart.

On the closing day the competition was between retail florists, the awards being as follows:

Vase of roses, J. Mangel, first; T. D. Mosconesotes, second.

Basket of roses, J. Mangel, first; A. Lange, second.

Basket of carnations, J. Mangel, first; T. D. Mosconesotes, second.

Box of cut flowers, A. Lange, first; T. D. Mosconesotes, second.

Joliet, Ill.

The first annual flower show of the Joliet Improvement Association opened here November 20, to be continued three days. There was a goodly array of creditable exhibits on the opening day. The exhibitors included George A. Kuhl, Pekin; Klehm's Nursery, Arlington Heights; Mt. Greenwood Cemetery Association, Mt. Greenwood; Vaughan's Seed Store and A. Lange, Chicago; and in Joliet, C. E. Carter, Jos. Labo, J. R. Hobbs, Col. Lambert, Bush Park, J. D. Thompson Carnation Company, the Chicago Carnation Co., James H. Ferriss and others. Among the prize-winners were A. Lange, bouquets; Jos. Labo, table decoration; St. Francis Academy, Woodlawn School, Father Foster, Dr. Fredricks, Messrs. McDermott and Baldwin,

and Mesdames Wheeler, Brown, Berson, McDade and Johnston.

The show was held in a tent on Van Buren street and awakened much local interest. While the premiums were quite liberal for an organization so young, it is anticipated that the prizes will be much more attractive next year. Edwin A. Kanst, of Chicago, officiated as judge.

Aftermath of Philadelphia Show.

On the average, quality and quantity were equal to previous years. There was a distinct falling off, however, in the large specimen chrysanthemums. Neither the first nor the second prize lots compared with what we have seen in previous years. The best plant in the "whole bunch," to my mind, was Wm.



E. A. KANST.
Superintendent of the Chicago exhibition.

Robertson's Brutus. The Robertson geraniums were, as ever, extra fine. The only improvement that could be suggested is in regard to color, which averaged too much red. A few well grown plants of pure white and white with crimson eye would have improved the exhibit.

The Dodd group of foliage and flowering plants was very tasteful and choice, both as to quality and variety of plants and the arrangement of them. Good culture and good taste seem to have gone hand in hand in this instance. Mr. Hopper has good reason to be pleased with the work of his people this year, the competition in this section having been stronger than usual.

Thatcher's foliage plants were a revelation as to what care and intelligent effort can accomplish. The specimen palm (Cocos Bonneti), the crotons, and especially the specimen Maranta Makoyana, were exceptionally fine and deserved all the praises that were lavished on them during the week.

The table decoration by Hugh Graham was the finest I ever saw. It was composed of choice orchids and greenery and was arranged with exceptional taste. The premium of \$50 awarded to this exhibit did not begin to cover the expense of same, and Mr. Graham has therefore to be credited with considerable public spirit in putting up this fine display.

Among the new chrysanthemums, R. G. Carey's new yellow stood out con-

spicuously. It is a very deep incurved flower of a beautiful bright golden yellow. Mr. Carey also exhibited a new pink for which he got first prize, but I do not think it was as good as Mr. Binder's pink in the same section. It was about the same sized flower but Mr. Binder's was, in my opinion, a brighter shade, and from what one can judge of the cut blooms, a more vigorous variety. Mr. Binder calls his new seedling Mrs. H. V. Casey, and it undoubtedly has a future. The judges here have given it a certificate both from a commercial and an exhibition standpoint.

Francis Canning's twelve specimen ferns were choice and well grown and a very commendable exhibit considering the facilities at his disposal.

The private gardeners showed up better than usual with cut roses. It is a pleasure to commend them on that branch of gardening, for if they can grow roses well they can grow almost anything. Geo. Morrison's Sunrise, Bridesmaid and Perle des Jardins were particularly fine. One wonders how he managed to get such stems on these varieties. Mr. Kleinheinz's Beauties were also commendable and compared very favorably with the commercial exhibits in this section. Jacob Becker's Ideal, a sport from La France, was much admired and the consensus of opinion was that it was a great improvement in color.

On the whole there was nothing specially new in chrysanthemums this year, either in plants or cut flowers. Form and size were about as usual. The limit seems to have been reached in the present types, and unless we have some distinct break soon, it is to be feared that the public will lose their interest in the chrysanthemums.

Violet growers have arrived at the conclusion that, all things considered, Luxonne is the most profitable variety to grow. Its perpetual blooming qualities carry all before it. Aicher & Gilmet, a comparatively new firm in this neighborhood, carried off first prize for a fine exhibit of this variety and were also prize winners in other sorts.

A well-grown specimen of Cattleya labiata was shown by E. W. Cox, gardener to J. H. Bromley, Germantown. It had fourteen well developed flowers averaging seven inches in diameter. The judges awarded this a certificate of merit.

FRUITS AND VEGETABLES.

In the fruit department there were only a few pears and apples and some foreign grapes but the vegetable display was so good as to make up for all shortcomings. Plants and flowers were in such abundance this year that a large part of the vegetable exhibits were crowded into the passageway leading from the lower end of the hall out to the driveway, the latter of which was also fully occupied, there being two long sixty-foot tables in that unique position, with celery exhibits alone. The celery exhibit was certainly one of the best ever seen here.

Another of the prominent features were two large tables of sixty square feet each consisting of a collection of vegetables of various kinds. Jno. McCleary took first and John Little second for these. To my mind the second prize collection looked fresher and better than the first. Perhaps there was not quite enough variety in the second and that may have influenced the judges. A notable item in the first prize exhibit was the giant Cashaw Crookneck squash, as was also the White Curled endive and Sutton's Best of All tomato. The distinguishing feature of the second prize exhibit was three immense heads of



A GENERAL VIEW OF THE PHILADELPHIA FLOWER SHOW, NOVEMBER 11-15, 1902.

Snowstorm cauliflower, and two lots of kohlrabi, the green and purple.

Jno. Dodds carried off the prize for tomatoes with a nice exhibit of four varieties, Stirling Castle, Lorillard, Stone and Marvel. Thomas Long was first with potatoes, of which there was quite a fine display. An odd variety of potato exhibited for the first time here was the Blue Peter, originated and exhibited by Leo Haen, Tanguy, Pa.

The Burpee premiums did not bring out a large competition, but what there was of it was excellent. Notable items were Crimson Globe beet, Iceberg lettuce, Black Beauty egg plant and Nansen or North Pole lettuce. The Dreer premiums brought out a very large and splendid collection. William Bell Wright carried the honors in this section. He is certainly a king among vegetable growers. His cabbages were immense, his Autumn King being the finest I ever saw.

Michell's premiums also brought out a fine collection, which filled a large part of the west side of the hall. The prizes offered by the other seedsmen also brought out creditable exhibits. A feature of the lower hall was the bulb exhibit by Michell. The distinguishing point of this was a bed of tulips in full bloom. They were artificial, of course, but the effect was excellent and as an advertisement one of the most effective possible. The arrangement of this and the rest of Michell's exhibit was in the hands of Phillip Freud, to whom considerable credit is due for excellent taste in arrangement.

Another notable feature which I must not forget to mention was a collection of

pumpkins and squashes from Burpee's South Jersey trial grounds. In a hurried glance I counted fifty separate and distinct varieties in the collection and doubtless there were more than that. This exhibition was a source of great attraction to the public and was surrounded by crowds most of the time.

I noticed some good Stirling Castle tomatoes in the Michell collection, but the Sutton's Best of All, in the same section, was not true to type, too large and not the right shape for Best of All. There was a fine lot of Best of All in the McCleary group, however, which was quite true. It is a pity to see this fine tomato exhibited in poor shape, as it gives the public a wrong impression of it. Either the gardener was careless or else his seedsmen should look to his stock seeds.

G. C. WATSON.

The show closed its doors Saturday night, after one of the most successful efforts recorded in the society's career. The weather was good the entire week and the attendance large each day, even Saturday night there being good crowds present.

I omitted to mention Jacob Becker's new rose, Ideal. This sport of La France is quite a departure from this popular old variety. Whether of these varieties, or I should say, of this type of rose could be introduced as something entirely new, what a furor they would make! The Ideal is very distinct from La France, although resembling it in some respects. It received a certificate of merit.

Alphonse Pericat's collection of seedling cyripediums received a gold medal.

They were exhibited in a glass case and were for the most part of the albino type, being very lightly colored.

Graham's table decoration was beautiful and artistic, being composed mainly of orchids with a tall vase of yellow chrysanthemums in the center. The orchids were arranged with ferns in the hollow center of the table, which was round. From the group in the center small narrow glass trays were placed on the inner edge of the table. These projected toward the spaces between the plates and were filled with cattleyas and sprays of oncidiums. The china and glasses were gilt-edged and the chairs surrounding the table also gilt. The whole effect was yellow, but very light and beautiful.

The pair of large vases ten feet high were covered with alternantheras well worked out in different colored designs and attracted considerable attention. Edward Jones was the exhibitor.

The only criticism I have to make of the exhibition as a whole is as to the absence of decorative effect. Much could be done to enhance the beauty of the show in this way and, while it would cost money, I believe it would have paid handsomely. The driveway, for instance, which is never used, could be turned into a handsome promenade, which, with the aid of flowers, foliage and electric light effects, could be made one of the main attractions of the exhibition.

ROBERT KIET.

OXFORD, N. Y.—The Race greenhouse has been doubled in size and a hot water heating plant is now being installed.

St. Paul.

The first flower show held here in many years was opened in the Armory on November 10 under the auspices of the Ladies' Auxiliary to the N. W. Manufacturers' Association. The display as a whole was most creditable, although this being the first attempt, premiums were small, so that the most that the trade could expect was glory.

The awards were as follows: Best collection of single-stemmed chrysanthemums, any color, first, L. L. May & Company; second, Holm & Olsen.

Best collection of pot chrysanthemums, not less than ten varieties, first, Holm & Olsen; second, L. L. May & Co.; third, August Vogt.

Best collection of cut flowers, not less than ten varieties, first, L. L. May & Co.

Best design or basket of chrysanthemums, first, Holm & Olsen; second, E. F. Lemke.

Best collection of orchids, first, Doctor Schiffmann.

Best collection of crotons and other foliage plants, first, L. L. May & Co., second, E. F. Lemke.

Best collection of cut roses, not less than twelve, first, Minneapolis Floral Co.

Best designs or baskets, money divided between R. J. Mendenhall and the Windmiller Co., of Mankato. FELIX.

Poughkeepsie.

A very pretty sight greeted those who attended the eighth annual exhibition of the Dutchess County Horticultural Society, which opened on Tuesday, November 12. The State Armory, where this and other recent shows have been held, is admirably adapted for the purpose and with an abundance of room, good lighting and very satisfactory arrangement

Sam'l Horn, gardener, second with a brilliant arrangement of foliage plants, with cattleyas, lœlias, cyclamens and begonias. For group of ornamental foliage plants, Archibald Rogers scored first with a collection of stately arecas, kentias, crotons, etc., and F. R. Newbold, Thos. Bell, gardener, second with a beautiful group in which were some of the best-colored crotons ever seen. Winthrop Sargent with a group of six foliage plants and a superb Davallia Fijiensis, Archibald Rogers with Asparagus Sprengeri and Nephrolepis exaltata, also a table of neat crotons, dracanas, etc., were also first prize winners here, and F. W. Vanderbilt, Robt. Barton, gardener, came in second with a similar table.

In chrysanthemum cut flowers there were some very fine entries. Sam'l Thorne, I. L. Powell, gardener, won out on vase of twenty-five whites with Mrs. H. Weeks and six crimson with John Shrimpton. Archibald Rogers' A. J. Balfour was the best pink in the class for twenty-five and Levi P. Morton's Vivand-Morel in the class for six. Winthrop Sargent's Timothy Eaton in white and L. P. Morton's Goldmine in yellow were the leaders in their respective classes. For twenty-four blooms of distinct varieties W. Sargent was first and A. Rogers second, and in twelve blooms Sam'l Thorne was first and Girand Foster, E. Jenkins, gardener, second. The winning set comprised Golden Wedding, Goldmine, Merza, Timothy Eaton, Bonnaffon, Mme. Deis, Lawn Tennis, Mrs. Barclay, J. Shrimpton, Mme. Carnot, Col. D. Appleton and Vivand-Morel. W. G. Saltford won out with a handsome vase of Timothy Eaton, Japan maple foliage and barberries.

In roses A. Rogers was first on Beauty, Girand Foster on Carnot and collection of four varieties and S. Thorne on Bride and Bridesmaid, second prizes going to

caused the keenest interest. While the judges were at work on this table there were by actual count thirty-five spectators ranged around them, devouring every word and motion. When the risky job was completed and the result made known it transpired that the Mayor Hine prize had gone to A. Flagler, of Vassar College, and that Herman Asher had captured all the rest.

The winners of the prizes for table decorations on Tuesday were Winthrop Sargent, first with center piece of white chrysanthemums and poinsettias and J. H. Howarth second with decoration of American Beauty and violets.

W. G. Saltford won first for dinner table decoration on the second day.

Other exhibitors in the respective classes not mentioned in the above list of awards were F. R. Newbold and F. W. Vanderbilt in chrysanthemums, V. Burgevin's Son, A. Rogers, W. Sargent, L. P. Morton, Spy Hill Conservatories, Mrs. Oakleigh Thorne, Chas. Rapp, gardener; and Girand Foster in carnations, D. S. Lamont and Mrs. Oakleigh Thorne in roses, Lyon & Strickland, C. H. Bahret and Girand Foster in violets, State Hospital with rustic stands and ferns and F. R. Pierson Company with Piersoni fern. W. G. Saltford had an artistic pagoda in the center of the hall. The judges were Eugene Dailledouze, H. A. Siebrecht and Thos. Harrison.

Ballimore.

The annual chrysanthemum show of the Baltimore Gardeners' and Florists' Club was held at Lehmann's Hall, November 12-14. The competition for the premiums did not bring out the entries it deserved, although, the white, yellow and pink chrysanthemums were represented in very large numbers, all of them being in exquisite form and foliage; and the size of the flowers has not been excelled anywhere. The pompon display made by R. Vincent & Son included sixty-eight varieties embracing every shade of color.

For white Timothy Eaton, W. H. Chadwick, Mrs. Jerome Jones and Philadelphia were shown in great shape. Colonel Appleton, Major Bonnaffon and Golden Wedding were equally good. Maud Dean, Mrs. Baer, a rich creamy flower, with incurved petals, and Mrs. Warren, a reflexed variety, were very fine. Mrs. Harry V. Casey, a new pink seedling originated by Wm. Paul Binder, is sure to be a winner. It is not yet in commerce, but will be introduced the coming season. The bronze and red varieties were represented by Geo. W. Childs, Edgar Sanders, Brutus, Black Hawk and Intensity. G. A. Lotz, C. R. Diffenderfer, Halliday Bros., H. Weber & Sons, Lehr Bros., Ex-Postmaster General Gary and others made fine showings of large flowers.

The rear hall was almost entirely filled by Patterson Park with hundreds of pot plants, ferns and palms, together with a collection of crotons and pompon chrysanthemums.

Isaac H. Moss had some good roses and carnations and the most liberal display was made by the president, Robert Halliday, of Halliday Bros. His arrangement of palms was the most artistic that has yet been shown at any of our exhibitions.

On the evening of the opening day a dinner was given the judges, Wm. F. Gude, Z. D. Blackstone and Otto Bauer, of Washington. Those present were:



ORCHID DISPLAY AT THE BOSTON EXHIBITION.

of the tables it was a comfort and delight for visitors to inspect the displays. Taking up the classes in order as presented in the schedule, the classes for chrysanthemums in pots were poorly filled, Fred. Potter, W. C. Roberts, gardener, being the sole contributor. For round table of ornamental and flowering plants there were two entries, Mrs. Winthrop Sargent, W. C. Gomersall, gardener, being first with a stately group of palms, ferns, crotons, cypripediums, poinsettias, etc., and Archibald Rogers,

D. S. Lamont, A. Nichols, gardener, and M. B. Tillotson. The carnation display was particularly good. In pink W. H. Vanderbilt's Lawson was first, in red W. G. Saltford's Crane, in variegated Saltford's Prosperity and in seedlings Saltford's entry, a fine magenta. On thirty-six blooms of three varieties Adam Laub & Sons were first and Saltford second and in the same limited to private gardeners W. H. Waite was first and M. B. Tillotson second.

As always, the violet competition



GENERAL VIEW OF THE NEW HAVEN SHOW, NOVEMBER 11-13, 1902.

Richard Vincent, Jr., Thomas H. Patterson, Robert L. Graham, Fred. G. Burger, N. F. Flitton, Philip H. Weleh, Isaac N. Moss, E. A. Seidewitz, Charles L. Seyhold, John J. Perry, John A. Cook, Henry F. Michel, Thomas Stevens, Frank Sauerwald, William Christie, F. C. Bauer, William Johnson, Ed. Kress, W. Paul Binder, Harry Lehr, Gustav Lotz, W. W. Burger, G. O. Brown.

Louisville, Ky.

The oriental tea and flower exhibition held at Luderkrantz Hall, Louisville, for the benefit of the Business Woman's Club closed with an auction of plants. Among the prize winners were Nanz & Neuner, Mrs. Chas. W. Reimers, E. G. Reimers, F. C. Haupt and, among out of town exhibitors, Benthey & Company, of New Castle, Ind., and Nathan Smith & Son, of Adrian, Mich.

Mrs. Reimers received first prize on twenty yellow chrysanthemums, first for single-stemmed yellow, first on lily of the valley bridal bouquet, first on bridesmaid's bouquet, first on double and single violets, and a number of first and second prizes on carnations and roses. On the opening day a handsome silver cup was awarded Mrs. Reimers for 100 cut chrysanthemums and second prize on oriental tea garden, a second silver cup for best bride's and bridesmaid's bouquets and a first prize on a table decoration of lilies of the valley and orchids.

Nanz & Neuner also came in for a large share of first and second prizes. Their collection of chrysanthemum plants and cut blooms took a number of firsts and seconds. The first prize was awarded to Nanz & Neuner for an oriental tea garden which was unique and quite attractive, first prize on oriental plants and fruits, a number of first and second prizes on cut chrysanthemums, roses and carnations, and first prize on table decoration and funeral design, which were shown on Saturday.

E. G. Reimers had a fine collection of chrysanthemum plants for which he received premiums, also some fine La France roses.

Benthey & Company, of New Castle, received first premiums on American Beauty, Bridesmaid and Bride roses.

Nathan Smith & Son, of Adrian, Mich., were first on collection of cut chrysanthemums.

Henry Nanz had charge of the entire affair and certainly deserves much credit for hard work and good management.

Providence, R. I.

Our chrysanthemum show, November 13-14, was a profitable exhibit for public inspection and generally satisfactory to all exhibitors. Our city has only two large chrysanthemum exhibitors, the Macraes, and competition is close on some varieties. F. Macrae proved a winner on Eaton, Jones, Appleton and Pullman, with John Macrae capturing second and third on general classes.

W. L. Lewis and John Barr made creditable exhibits and Mr. Barr won a first

prize on twelve cut blooms. In fact, Mr. Barr would doubtless have gained some extra prizes had he entered in more classes. His display of cut blooms in bottles was a worthy effort. One could count upwards of fifty varieties in the show, but in the main the display consisted of only Eaton and Appleton. E. J. Johnson gave us a delightful surprise with Mrs. Balfour, dark pink. The color is desirable and although the flowers were not in competition, they were awarded a gratuity. The Rustique, grown by J. Macrae, seemed to strike a responsive note among the bronze yellows. F. Macrae's Florence Pullman exhibit was very fine.

The carnation exhibit was never before surpassed among local growers. F. Macrae had a good white seedling of size and stem. The Little South Floral Company, of Natick, Mass., showed The Queen, their own introduction, and won an easy first prize. Wm. Maxfield, of Barrington, obtained second on a white seedling, and Maxfield and Fales were second on Floriana. John Macrae made the largest exhibit and showed himself a skillful grower. He was first and second on several entries, and his Beau Ideals were fine. This variety, on the Daybreak order, has had its tribulations, but Mr. Macrae has a stock to be proud of. The Crawford of E. S. Cooke, Brockton, Mass., is a fine mottled cerise of good size. J. H. Cushing and J. A. Foster made good exhibits and Wm. Hoffman showed his Challenger, a new red.

Reuter, of Westerly, made a special effort in carnations and roses, the latter winning a gratuity. His Lawson received first prize and Lillian Pond was second, being overscored by The Queen.

Wm. Appleton's palm exhibit received special mention for its completeness. Mr. Hill, as usual, made two fine groups of foliage plants.

J. Macrae had a table of Lorraine begonias in splendid condition, also a cluster of Princess of Wales violets.

The judges were Thomas Greaves, of Brockton; James Burke, of Warwick; Charles Forbes, of this city, and W. L. Lewis, of Marlboro. M. M.



GROUP FROM H. S. HOPPER, NARBERTH, PA., J. H. DODDS, GARDENER.

(Shown at the Philadelphia Exhibition.)

Elmira, N. Y.

The fifth annual exhibition of the Elmira Horticultural Society was held November 11 and 12, and the quantity and quality of flowers exhibited and the attendance of spectators would indicate no falling off in interest. In nearly all classes the flowers showed an improvement over those of previous years. The principal prize of interest was the Board of Trade cup for the best seedling not disseminated, which was awarded to a seedling of G. P. Rawson's, grown and exhibited by John Rudy. It is a white tinted primrose, of good size, stem and foliage, with broad petals, reflexed, center incurved, an attractive exhibition sort which may be called the Strathmont.

Wm. Paul Binder, Rider, Md., sent three blooms of a beautiful pure light pink variety, Mrs. Harry V. Casey, of good size, broad petals, reflexed with tips incurved, which is very promising.

Nathan Smith & Son, Adrian, Mich., sent a collection of their splendid old and new varieties, including among others Bentley, Chenon de Leche, Edgar Sanders, a very attractive, well formed red bronze variety; the beautiful yellow, Mrs. J. J. Glessner, and the new gem, F. J. Taggart.

The exhibit from the Strathmont greenhouses was large and the palms, mammoth chrysanthemums, roses, carnations and violets all showed the ability and painstaking care of the gardener, John B. Rudy, and the liberal, intelligent interest of the proprietor, J. S. Fassett. The most noticeable varieties in this exhibit were Timothy Eaton, Calvat's 99, Jessie Cottee, Thomas Carington and Mrs. Barksdale. He also showed a beautiful bunch of Liberty roses and some seedling carnations.

Grove P. Rawson filled two tables with exhibits, the most attractive being his Col. Appleton, Lady Hanham, Idavan, Orizaba and Philadelphia. He had fine roses and carnations and some good miscellaneous plants.

H. N. Hoffman exhibited fine vases of Timothy Eaton and Col. Appleton and a

vase of 100 Estelle carnations of large size and rich color, also Lawsons, roses and some floriferous cyclamen plants.

There were also attractive exhibits of carnations from Fred. La France and George Backer and of carnations and chrysanthemums, plants and cut flowers, from E. Orvis. H.

Lawrence, N. Y.

The Lawrence-Cedarhurst Horticultural Society is in receipt of many congratulations on the great success which it attained in its recent exhibition. The attendance was very large, the aristocratic summer colony turning out generally to admire the work of, and encourage by their presence, the painstaking gardeners who have worked so enthusiastically for the success of the event. Chrysanthemum plant groups were so well done and the competition so close that the two best exhibits, those of Karl Kretschman and Alex. McKenzie, were given equal first prizes, second, third and fourth going respectively to J. G. McNicoll, H. Entwistle and H. Worthington. These gentlemen, together with James Bell, were the main contributors in the chrysanthemum plant classes, all participating in the prizes. The classes for cut blooms were well filled and the quality throughout was superb, the competitors being Messrs. Bell, McKenzie, McNicoll and Victor Malmros.

Four groups of decorative plants arranged along the sides of the hall were greatly admired. They were contributed by J. G. McNicoll, Jas. Bell, W. Mitchell and John Reilly, to whom the premiums were awarded in order as named. Smaller groups of stove and greenhouse plants, table plants, specimen ferns, etc., were staged and substantial honors won by Messrs. Bell, McKenzie, McNicoll, Malmros and Kretschman, fine taste in arrangement being displayed by all. The entries in the rose, violet and carnation classes were also excellent.

Alex. McKenzie won the special prizes offered by Mrs. T. J. Taylor for Beauty and Bridesmaid roses and for chrysan-

themums, also the Geo. C. Rand prize for chrysanthemums, Victor Malmros the L. L. Benedict prize for carnations, John Reilly the A. W. Hard prize for dinner table decoration, Jas. Bell the Thorburn prize for chrysanthemums, Karl Kretschman the F. B. Lord prize for smilax, also the W. P. Bolton prize for cyclamens and J. G. McNicoll the R. L. Burton prize for chrysanthemums.

Tuxedo, N. Y.

The Tuxedo Horticultural Society held its first annual show in the ballroom of the Tuxedo Club on November 7 and 8. The event was a pronounced success, the exhibits being of a high order of merit and the hall being thronged with distinguished visitors. The society, which was organized only last January, comprises in its active membership nineteen of the principal gardeners of the neighborhood and the associate membership is composed of the owners of the summer homes. Among the special triumphs of the show were the groups of standard and bush plant chrysanthemums by C. D. Shaeffer, gardener to R. Mortimer; groups of palms and other decorative foliage plants from W. Hastings, gardener to C. B. Alexander; fruiting orange trees, also ornamental-foliage plants from R. Franke, gardener to H. W. Poor, collections of fine cut chrysanthemum blooms from W. Hastings, C. D. Shaeffer, R. Franke, Thos. Meany, gardener to P. Lorillard, and Jas. Morenen, and a new golden privet and group of orchids from W. A. Manda. Clucas & Boddington, J. M. Thorburn and Bobbink & Atkins made trade exhibits of seasonable goods in their respective lines.

Special certificates were awarded to George Stewart for palms, R. Franke for palms and orange trees, Wm. Hastings for chrysanthemums and Lorraine begonias, W. A. Manda for exhibit above mentioned, and Bobbink & Atkins for Foster fern. Hastings and Franke were the principal rose and carnation contributors. The judges were Wm. Turner, of Oceanic, and Louis Schmutz, of Flat-bush.

CHRYSANTHEMUMS.

A VALUABLE ACQUISITION.

Among the many new chrysanthemums which have been put upon the market there are few which have attracted more notice than Timothy Eaton. When this variety came, with its magnificent bloom, we heard on every side, "Would that we had a yellow Eaton!" That wish has materialized and the Yellow Eaton is now giving promise of being one of the most valuable chrysanthemums ever introduced to a flower-loving public. Eaton sported yellow with A. N. Pierson, of Cromwell, Conn., during the fall of 1901. In color it is a rich lemon yellow with a center of a slightly deeper shade. This variety bids fair to become very popular, and it will no doubt be widely grown. In all except color it is an exact counterpart of its parent.

W. R. PIERSON.

CHRYSANTHEMUM ESTELLE.

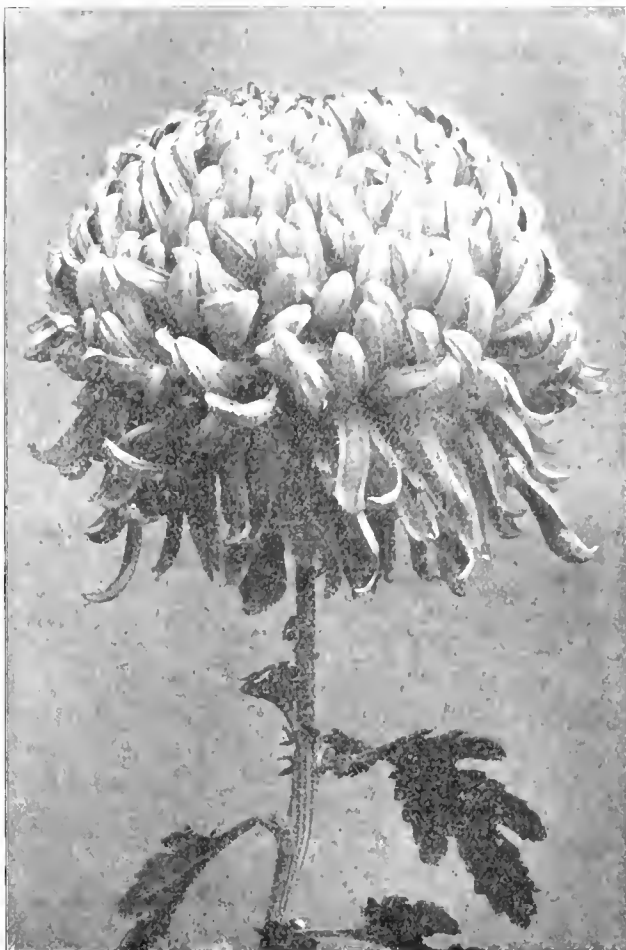
The first chrysanthemum to be exhibited this season before any committee of the C. S. A. was Estelle, certificated by the Cincinnati committee on October 18. Marketable blooms were cut October 4, by the originator, H. M. Altick, of Dayton, O., who says that, with the same



CHRYSANTHEMUM ESTELLE, CERTIFICATED OCTOBER 18.



CHRYSANTHEMUM AMORITA.



CHRYSANTHEMUM HENRY SINCLAIR.

TWO OF THE SEEDLING CHRYSANTHEMUMS WHICH JOHN N. MAY IS EXHIBITING BEFORE C. S. A. COMMITTEES.

conditions for growth, it is ready fully a week earlier than its parent, *Glory of Pacific*. It is pure white, of fine form. The blooms illustrated were grown in a sash house, given very ordinary culture and no feeding beyond a light mulch, yet they measured from eighteen to twenty-one inches in circumference.

CHRYSANTHEMUM MRS. E. THURKELL.

ED. AM. FLORIST:—I notice the account of a chrysanthemum in many of the trade papers, which is attracting considerable attention as an exhibition variety. There were two blooms shown at Chicago under the name of *Mme. Thirkall*. Being interested in all new comers, and desiring to know of its origin, I have, after some searching, been able to locate this variety. The correct name is *Mrs. E. Thirkell*, one of Thos. Pockett's seedlings. Herewith I append a description as given in G. Brunning & Sons' catalogue, who are noted Australian raisers: "*Mrs. E. Thirkell*, very deep yellow, late flowers bronzy yellow, extra large, grand exhibition variety, best on late-crown buds." The English firm of W. Wells & Company catalogue this variety as *Mrs. E. Thirkell* but Brunning & Sons handle all of the Pockett novelties and are likely correct.

I furnish this information with the hope that all parties cataloguing may adopt the correct name and thus avoid some confusion.

ELMER D. SMITH.

NEW CHRYSANTHEMUMS.

Amorita, which John N. May grew as No. 15, is a bright, glowing satin-like shade of pink. It is a seedling of *Mrs. Perrin* and *Mrs. Jerome Jones*, a sturdy grower with extra fine foliage and stem. The flowers average six inches in diameter by four and one-half inches deep, ready October 15 and remarkable for their keeping quality. The plant is about three and one-half feet high and the use of the first terminal bud is recommended.

Henry Sinclair, formerly designated as No. 11, also raised by Mr. May, is a fine canary yellow, a bold, handsome flower and a very good shipper. It is a seedling of H. L. Sunderbruch and *Jeanie Falconer*. The flower averages six inches in diameter by five deep, on a strong stem clothed with good foliage. Flowers ready October 15 were still in good condition on the plants on November 4. The plant is about four feet high and the second crown or terminal buds give best results.

Color Scheme in Chrysanthemum.

BY PROF. JOHN F. COWELL, BUFFALO, N. Y.
[Read before the Chrysanthemum Society of America at the Chicago convention, November 12-13, 1902.]

When I received an invitation to prepare a paper for this national body of experts, gathered in convention to-day, I must confess that I doubted my ability to prepare anything that would be either new or interesting on the subject dearest

to the heart of this society, and the more I looked into the extensive literature of the chrysanthemum the stronger this feeling became.

To find some phase of the subject which had not been thoroughly threshed out and winnowed, and yet within the limit of my time and knowledge, seemed an almost hopeless task, and only my feeling of duty to your organization prevented my declining the honor.

The subject as announced briefly is "*The Color Scheme in Chrysanthemum*," and the investigations on which much of what I have to say is based were carried on by me over a quarter of a century ago. I must beg of you not to regard my remarks as a sermon or a lecture, but merely as a rambling talk, on certain theories, which may bring out further discussion of benefit to all interested in extending the color range in the queen of autumn.

My acquaintance with the chrysanthemum dates back over forty years, and my earliest recollection is of the clumps of somewhat pinky white and rather striped purple blooms that stood in a sheltered nook beneath the dining-room windows of my boyhood's home. While these blooms would hardly pass muster to-day, yet I remember that we looked forward to their blooming and valued them the more because they braved the cold November winds with their modest show of color.

Of the then choicer varieties, grown in pots for indoor decoration, were a bronzy yellow, a pure white and a brown red or

maroon, all of which were small, reflexed blooms of the Chinese type. As above indicated, all of these early forms of the Chinese species were of rather impure color.

The wine colored or magenta tints did appear in many of these, but I do not remember anything that could be called, even by courtesy, pink among them. With the Fortune introductions came gradually pure yellows, fairly good pinks, wine reds, waxy whites and nearly all the other shades except red, scarlet and blue, and notwithstanding many years of cultivation since, the blue and the scarlet have not been attained.

Just why these colors have eluded us it is hard to say. The long line of heredity within historic times seems to have been too weak in the proper pigments to dominate the blooms and by many the possibility of obtaining the blue chrysanthemum is doubted. In considering the possibility of reaching this more or less desired result, it may be well to recall what has been done with other species before we proceed further. It may encourage us.

The Chinese primrose, introduced to cultivation in England in the early part of the last century, seems to have been either white or of varying intensity of purplish pink, yet in recent years the colors have been much intensified and varied and we now have good reds and a pretty respectable blue. It is true that the yellow is yet mainly confined to the central portion of the flower and is very slow to diffuse itself.

The pansy may be mentioned as another example. Here from the original wild *Viola tricolor*, with its creamy white petals faintly marked or stained with purple, we now have good blues, yellows and even red, with countless intermediate tints. The garden phloxes have varied under cultivation from the original rosy bloom to deep red, scarlet, lilac and an approach to yellow, all since 1835.

The old theory that blue and yellow cannot occur in the same genus has long been exploded, as witness *viola*, *iris*, *aquilegia*, *linum*, *delphinium* and many others. Still the fact remains that where the species was originally blue, yellow has been most difficult to attain, and where yellow pure and simple was the original color, blue has never, to my knowledge, been produced.

The pigments which enter into the colors of flowers have been divided into two series, the xanthic or yellow and the cyanic or blue. To the blue series we must credit all the reds, and we must consider the greens as mixtures of the two series.

These pigments are dissolved in the cell sap and are often so abundant as to be seen in the leaves and stems as well as the flowers. Familiar examples of this excess of pigment may be seen in carnations, primroses, cinerarias, cyclamens, etc.; so marked is it in many cases that it is easy to group a lot of seedlings according to color long before they come into blossom. These coloring matters may be extracted and crystallized. If solutions be made of these crystals some interesting results may be obtained by treating them with certain organic acids and alkalies. The reactions brought about seem to be analogous to the changes of color seen in the blossoms of living plants. Solutions of the cyanic group are readily acted upon by dilute acids and alkalies, such as tartaric and oxalic acid on the one hand and sodium compounds, even ammonia on the other.

The xanthic group, however, is most refractory and defies any change except slow oxidation, by means of which the pigment is destroyed. I now refer to the action of the vegetable acids; with sulphuric or hydrochloric acids xanthophyll changes to green and blue. Changes of blue to red and red to green are easily brought about. Changes from red to green and from red to blue are very common in nature. In early spring young leaves of maples and other trees are often quite red, but later as the leaves grow and mature the coloring becomes green. Later in the season the change is reversed and we see the green changing to red. In many flowers a similar change takes place. In *mertensia* and other boraginaceous flowers the expanding buds are red and change to blue as they come into anthesis. Green is to be considered as a mixture of blue and yellow, and it is well known that chlorophyll, the green coloring matter of leaves, is separable after crystallization into yellow and blue elements.

The green coloring matter of plants, existing principally in the leaves of plants and often in a less degree in the flowers, is known as chlorophyll. This coloring matter may be easily extracted by digesting the leaves with dilute alcohol. The coloring matter of many flowers may be extracted in the same way, and most of them seem to be closely allied to the green coloring matter of the leaves. There are, however, to be found in certain flowers color pigments which are soluble in water. So far as is known, no one has been able to dissolve the yellow coloring in water and but few of the blues. In testing these extracted colors with the spectrum analysis the yellow and blue coloring matters of the chrysanthemum seem to be identical with chlorophyll and are only to be dissolved by alcohol or benzol, not by water.

The method of separating the blue from the yellow elements is based upon the greater solubility of the blue in benzol, and the corresponding greater solubility of the yellow in alcohol; the yellow is extracted by alcohol, but the green is not, or at least very slowly. It is to be understood that these coloring matters are rarely found in a state of purity, there being almost always representatives of the two groups present in colored flowers, and it is the differing proportions that give us the infinite number of tints seen in nature.

Now, considering the convertibility of these pigments of the cyanic group and the presence of the yellow pigment in the mixture, are there any good reasons for expecting scarlet and blue to appear in chrysanthemum flowers? Let us look for a moment on the color of this bloom as it is to-day and as it was at the time of its introduction. The oldest colored plate of the bloom that I have seen represents it as a purplish pink, a strongly cyanic color. On the other hand yellow has always been well and abundantly present in the cultivated varieties since their earliest introduction into this country, at least, and since the Japanese introductions yellow of great purity has been almost predominating.

The very name of the flower refers to the yellow coloring. If we are to consider yellow as original and typical of *C. Indicum*, it would seem from what we know of the immutability of that pigment, an almost hopeless task to convert it into blue or any other color. But if I mistake not, the other parent of our modern flower is strongly cyanic. Many of our hybrid blooms are strongly

impregnated with the cyanic pigment, and we have quite a long list of varieties described as amaranth, purplish crimson, magenta, lilac, mauve, etc., certainly showing a marked increase in the amount of the blue pigment, in these later years.

The forces that govern the character of the secretions in the cells of the plant are most delicately adjusted, and an increment or a diminution that baffles the most sensitive scale of the chemist may change entirely the color of a flower or transform a leaf. And so it is to qualitative rather than quantitative analysis that we must look for the solution of many of the problems of plant life.

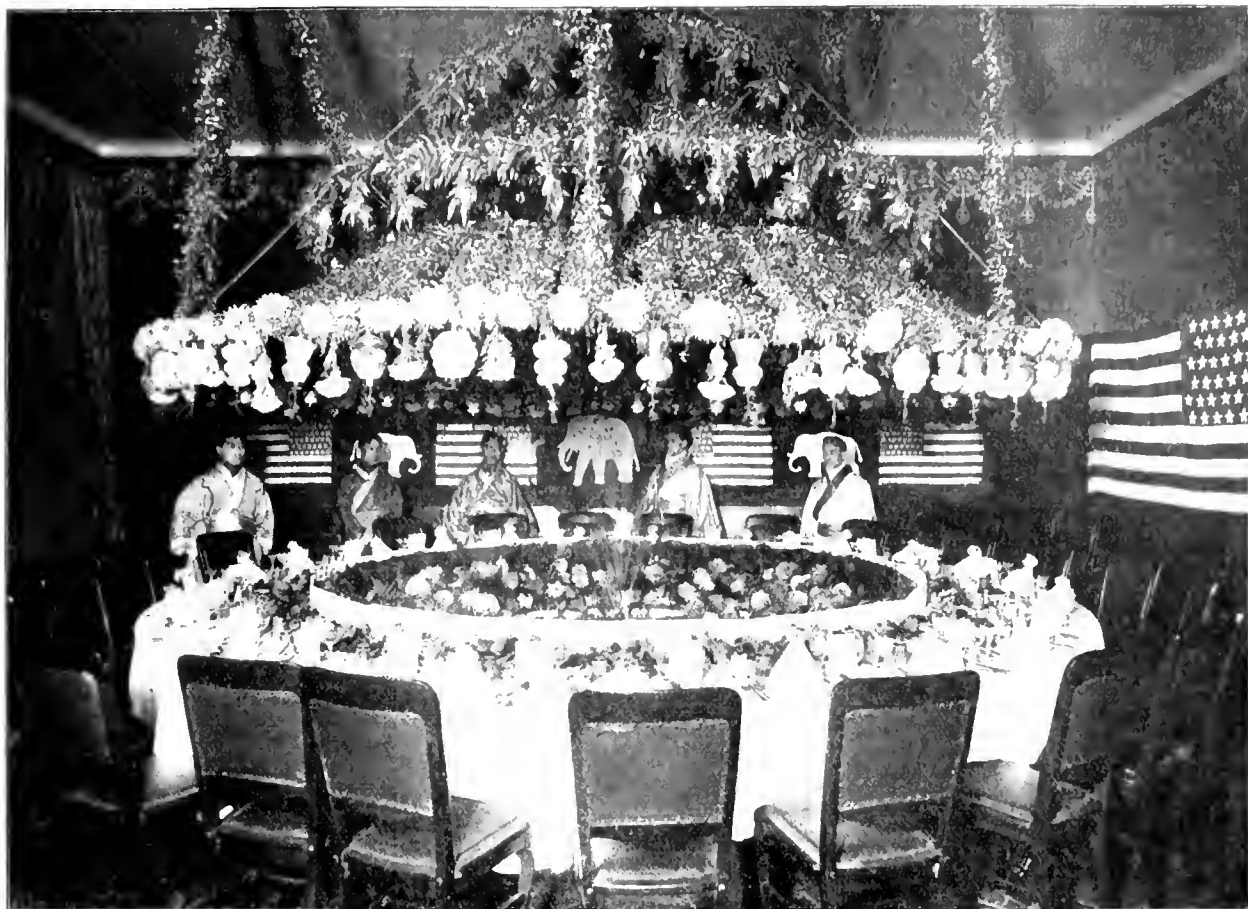
Qualitative tests seem to show that the reactions which bring about the red and yellow and red colors are acid, and those that give us blue and green are of an alkaline character. Just how far this knowledge will help us in the production of the missing colors in chrysanthemum remains to be seen.

It certainly will not do to rely on hypodermic injections or on absorption of gaseous fumes for the attainment of the end in question; but the knowledge may be of some use to us in the work of development. It is entirely probable that the process of developing the new colors will be along the lines of selection and breeding, and when we remember what wonderful results have been brought about by long continued and intelligently applied effort there seems to be a fighting chance.

It would seem that given one color to start with it ought to be a comparatively easy matter to produce the opposing color, that is if we have red to start with we ought to obtain green without difficulty, if we have purple we ought to get yellow, theoretically. Practically it is not so easy, it seems. Indications are that it is from the cyanic flower nearest in value to the color desired that we must proceed. This group, or at least that part of it which lies between the violet and the red, seems to be easily disturbed and changed or broken up. For instance, in working for a blue one would naturally start with a violet red which we already have, and which is a particularly instable color. In working for scarlet one would preferably begin with an orange red shade modified with blue if possible.

Another problem connected with the preceding is that of obtaining a homogeneous coloring on both sides of the petal. At the present I think our nearest approaches to red and scarlet are to be found in the bi-colors. Here of course the unity of the color is marred by the dull papyry under petal.

With distinctly and regularly reflexed flat petalled flowers of course this is not so noticeable; but with less compact inflorescence or of incurved blooms, the dull coloring and poor texture spoils many a bloom otherwise admirable. This difference in color and texture is not uncommon in the petals of flowers generally. A great many of our flowers that are upright or lateral exhibit this same diversity—the lower or outer surfaces are greenish, dull colored, or coarse, while in pendulous flowers this difference is not so marked. The reason advanced is that in the one case the brilliant coloring is not needed, as practically only one side—the upper—of the petal is seen. In the case of the pendulous flower it is the outer side of the petal that is presented to the eye, and so it is to be made the conspicuous surface. Why these things occur thus and so is all written in the book of



DECORATION BY WALTER KREITLING & CO., CHICAGO, FOR A BANQUET TO THE CROWN PRINCE OF SIAM.

evolution. To be sure, it has taken a long time to bring these colors about in the haphazard way of nature. We expect the modern florist to accomplish in a few years more than natural selection has done in thousands.

The evolutionist of to-day can make his crosses between forms gathered from the uttermost parts of the earth, and is not confined as nature has been to slight variations growing accidentally in juxtaposition. If one chrysanthemum bloom shows the desired characteristic there is no reason why all cannot be made to do so. Like produces like and unlike produces unlike, just as surely to-day as it did a thousand years ago, and there is no good reason to believe that we have reached the limit in any direction. As we accumulate knowledge we increase in power over all things and a little obstacle like the coloring of a bit of cellular tissue should not be insurmountable.

Perhaps I have left you still just as far from an answer to the question as you were when I began. However, what has been may be again, and even new combinations are possible. It has been demonstrated that both pure red and blue pigments exist in the species, and the possibility of intensifying and isolating them seems to me to be not unreasonable. Because we have never seen these colors appear is no reason why they may not yet come. At any rate I think we shall all agree as to the desirability of this increase in color, though we may differ as to the probability of reaching the goal. And I feel sure that if this change is ever brought about it will be due in a great measure to the inspiration of the C. S. A.

Hybridizing Chrysanthemums.

BY ELMER D. SMITH, ADRIAN, MICH.

[Presented to the Chrysanthemum Society of America at the Chicago convention, November 12-13, 1902.]

Before entering into the details of this subject, let us consider some of the natural conditions which have more or less influence upon our results. Dame nature says the chrysanthemum shall be single and reproduce itself from seed; so in producing these marvelous flowers, with almost countless petals, we are working in direct opposition to her laws.

In some of our improved varieties we are prevented from making further improvements, owing to the pistils or styles being abortive, and in other varieties the staminate florets provide little or no pollen. As you are aware, hybrids result from the crossing of species, and as this has not been attempted to any extent with chrysanthemums it seems wise to confine ourselves to cross-fertilization.

In cross-fertilization, the operator's desire is to improve the chief characteristics, such as color, size, form and fullness. It is beyond human power to state exact results in uniting or mixing the colors of petals. Pollen from a white flower applied to a red may give red, white, or any of the intermediate shades, which would be the many varieties of pink. Mrs. Alpheus Hardy, white, and E. Molyneux, red, gave Lady Playfair, pink. The union of red and yellow gives similar results, producing red, yellow and all the intermediate shades of brown and tan. We have more assurance when varieties of the same color are crossed.

Improvements in color can only be attained by the union of colors, bearing in mind the laws of nature in making these unions.

The chrysanthemum, like the carnation, has a great tendency to revert to its antecedents. Hence it is we get many strange colors when two of the same color are crossed. The variety Mrs. J. J. Glessner came from Edward Hatch and Mrs. Jerome Jones, both of which are white, or nearly so. This seedling partook of the parentage of Edward Hatch, which was *Gloriosum* × *Ada Spaulding*. Form, size and fullness are improved only by careful consideration of these qualifications in the varieties at our disposal. We are more certain of advancement in the style of growth, securing those which are dwarf and sturdy by confining our operations to such varieties as possess these qualities. Large and small foliage can be produced by using those which have these peculiarities. What governs the potency of the pistillate and staminate parent we cannot determine. We are dealing with minute affairs. The stigma may scarcely have reached maturity when the pollen is applied, or the pollen may be past its prime, with the stigma at the height of development. These varied conditions may have their influence upon establishing the character of the seedling.

In selecting varieties for this work, the two great classes for consideration are those for exhibition and those for the commercial grower. In the former, size is the most important factor, if the other qualifications are up to the average. The commercial grower requires staple

colors and the purer the color the better. Size, form, fullness and style of growth are important and should be taken into consideration.

Plants intended for seed raising should be staged in a dry, light house, and excessive moisture at the roots or in the atmosphere should be avoided. June and July struck cuttings grown to single stems in 4-inch pots are the most convenient. Such flowers, if given but little feed, are more natural, furnish an abundance of pollen and are easier to trim than the massive exhibition blooms.

The operation begins when the flowers are half open, by cutting the petals off close to the base with a pair of scissors until the styles are exposed. When the styles are fully grown, the upper surface or stigma is in condition to receive the pollen. Select the desired flower for pollen and push aside the ray florets or petals until the disc florets are in view; these produce the pollen which may be collected on a camel's hair pencil or a toothpick, and then applied to the stigma of the flower previously prepared. If a toothpick is used, never use it for more than one kind of pollen. By allowing the camel's hair pencil to stand in an open-mouthed vial of alcohol, a few moments after using, it may, when dry, be used upon another variety without fear of the pollen of the former operation affecting the present.

Pollenizing should be done on bright sunny days as far as possible. In wet weather, a dry warm house can be utilized, and the work continued each day provided sufficient pollen is at hand. On bright days, pollen is generally very abundant and may be collected, stored in vials and labelled ready for use. If kept perfectly dry, this pollen will retain its vitality throughout the chrysanthemum season.

After fertilization, give the plants only sufficient water to keep them from wilt-

that time. Do not anticipate super-abundance of seed. The crosses which give but a few seeds generally produce the best seedlings. Hand pollenized seeds are of more value than those naturally fertilized. It at least seems rational to expect more from seed secured by the union of our best kinds than from that produced by the wind without intent, or the bee, whose only object is to secure his daily sustenance. If this be true, our results depend upon the degree of intelligence employed in the selection of parents and the thoroughness with which every detail is attended.

Chrysanthemum Cut Blooms.

BY CHAS. W. JOHNSON, ROCKFORD, ILL.

[Presented to the Chrysanthemum Society of America at the Chicago convention, November 12-13, 1902.]

In presenting this subject to you my first duty will be to review the cut bloom chrysanthemums that have gone before, or, in other words, the foundations of our popular kinds of to-day. In looking over the varieties that we consider standards now we can hardly realize how very few of the veterans we still have with us. One of the oldest favorites is Ivory, a grand old variety but now being grown less each year. It is being discarded on account of not being large enough for present day requirements.

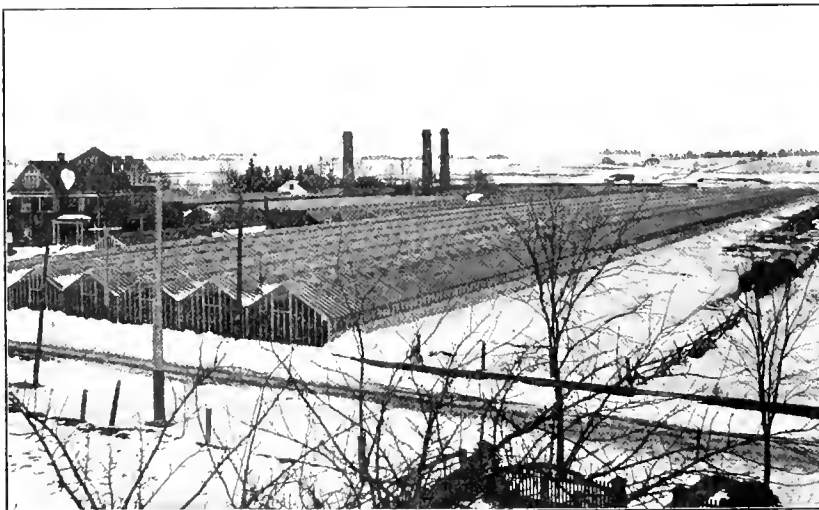
Geo. W. Childs is a variety which has long been the standby in red. It is still on deck and possessing, as it does, so many good points, it is likely to remain with us for awhile. I suppose this variety at the time of introduction was the most distinct American seedling. Mrs. Jerome Jones, that beautiful incurved with such handsome foliage and the flowers of which keep so well, did not get a very good start owing to its requirements not being properly understood. I remember the first plant of this variety that came under my notice. It was grown in a

Major Bonnaffon is another of the old wonders for which lack of size is proving its undoing. Without a doubt this variety was at one time grown more than all others combined. This is also a very distinct sort, possessing characteristics entirely its own and which our hybridizers have not been able to infuse into the later day seedlings. Niveus, Philadelphia, Mrs. W. C. Egan, Yellow Queen and H. L. Sunderbruch are still grown to meet some special purpose but are no longer considered wonders, as of yore. Mrs. Henry Robinson, Modesto, Pennsylvania, Mayflower, Jeannie Falconer and Mrs. Perrin are very much alive yet and well able to hold up their heads among the leaders. But what has become of The Queen, Harry May, Hicks Arnold, Harry E. Widener, Frank Thompson, Mrs. E. G. Hill, Gold, Mermaid, Robt. Bottomley, Minnie Wanamaker, J. C. Vaughan, Exquisite, Ada Spaulding, Mrs. Alpheus Hardy, Eda Prass and Lillian B. Bird, varieties without which a few years ago an exhibition collection would not be complete? Our Mutual Friend is still holding its own and is found in most collections and this year, I believe, has done better than ever.

Of the vast number of foreign varieties that have been introduced into this country we have to award first honors to that sterling French variety Vivian-Morel, which we still see in various grades of quality, some seasons extra fine, others not so good, although it would seem as though most of us are still loth to let it go. Golden Wedding, from the other side of the globe, cannot yet be beaten in its season. This variety was very disappointing the first year or two after being introduced. Several growers were so disgusted with it, because of its being so infested with disease, that they pulled out the plants without letting them come into bloom. But time has proven that our golden friend was made of better stuff than we even then dared suppose and to-day it is simply grand. W. H. Lincoln, in its day a fine yellow for cut blooms, is now being pushed aside by many much better, although for growing into specimen bush plants it is still a top notch yellow.

After these three varieties we have to skip a few years before anything very useful from an American standpoint came to hand. Several English varieties put in their appearance but after due examination very few of them could pass muster. One that looked at first to be a winner was Mrs. Henry Weeks, but it was too fussy and could not bear so much sunshine. We had, therefore, with regrets, to let it go. No other of the English varieties of that time ever got far enough into the front ranks to be classed as standards.

We have several English varieties now on trial which seem a great deal more promising. The two leaders are: Kate Broomhead, a magnificent bronze, a fine grower, of good even color. It likes plenty of sunshine and is one that will give the best of them a close race. Mrs. Coombes, a massive reflexed pink, is another wonderful variety with the same easy growth and stout stems, clothed with heavy foliage. We are much impressed with this and the more we see of it the better we like it. A. J. Balfour, another pink from England, pleases us very much on account of its beautiful clear color. We did not get this one till late, consequently it did not have a fair show and is a little under size. Mrs. Barclay is another pink monster with very heavy foliage, and, although it may



GREENHOUSE PLANT OF THE DALE ESTATE, BRAMPTON, ONT., IN 1901.

(New range of 23 houses in course of erection to right. See page 554, issue of Nov. 15.)

ing. Always keep a record of the work, showing the parents of the seedlings. It will afford you pleasure to know how a meritorious variety was produced, and may suggest possibilities along other lines.

Seeds ripen in five to six weeks. Those fertilized early in the season give the greatest number of seeds, doubtless due to the weather being more favorable at

6-inch pot with stunted foliage and made a dirty white flower with wide open center. But what a transformation we did behold the next season or two, when this selfsame variety had jumped to first place as the leading commercial and prize winning kind of its season. It is still well up in the front rank, with its graceful blooms and well clothed footstalks which size alone has beaten.



HOUSE OF THE NEW ROSE CANADIAN QUEEN PHOTOGRAPHED IN OCTOBER AT THE DALE ESTATE, BRAMPTON, ONT.

seem a little coarse, it is still a striking variety.

We are also trying some of Mr. Godfrey's finest set of novelties, with results that are hardly up to our expectations. Godfrey's King and Queen Alexandra have made the best showing of the lot, but can only be used in collections and they will have to increase in size to hold a place there. Bessie Godfrey we have been building great hopes on, which have not been realized, but perhaps we can do better with this one another season.

The Australian people use as their motto "Advance Australia" and the Australian chrysanthemum raisers are certainly acting up to it, for some of the new varieties that they are giving us are truly wonderful. We have Nellie Pockett, a very distinct sort and a gem in every way. Although it has not enough substance for commercial purposes, it can find a place in exhibition collections. Walleroo and T. Carrington are also two very telling varieties for exhibition and late reports from England on several more varieties now on trial lead us to expect something amazing.

We are getting some very fine things from France, but most of them have the very serious fault of being ungainly, tall growers and many of them come with long necks. Mme. Deis, a very large reflexed white, pleases us very much. It is very slow to make cuttings, but if this fault is overcome this variety should prove a winner. M. Chenon De Leeche, a rosy buff, reflexed, is fine for exhibition and in Europe this variety is considered the finest ever raised. Mme. R. Cadbury, a very large showy white, is another grand sort. Mme. Carnot and its yellow sports, Mrs. Mease and Chas. Warren, we have had for some time and, though they require special culture, they are still splendid varieties.

It is quite amusing to read what the European growers think of some of our most popular kinds. One or two varieties which we think are top-notchers are described there as nothing startling, while many of our early sorts are classed as late. But this is no doubt due to the different climatic conditions. In looking over the English reports it would seem as though Our Mutual Friend is entitled to first place among American varieties in that country, closely followed by Modesto, Niveus, Sunstone, Western King, Simplicity, Mrs. E. W. Clark and Geo. W. Childs, varieties that have all made their mark.

The first year that I was in Chicago we grew our chrysanthemums out in the field during the summer, lifting them in the fall, the same as we now treat carnations, and I believe the first house of single-stemmed chrysanthemums in this part of the country was grown at Mount Greenwood. At that time we put the cuttings in along in June or the early part of July and planted in the benches early in August, growing them along as fast as possible, taking the first bud that put in its appearance. We then thought we got fine blooms, but they would not be in it to-day.

Now we have to commence to propagate some of the varieties in March, selecting the best wood obtainable, potting them up as soon as rooted and giving them a light airy place, with a night temperature between 40° and 50°. Some of the varieties that need to be propagated early are Mrs. Jerome Jones and its sports, Brutus, Nellie Pockett, Mutual Friend, Major Bonnaffon, and most of the early kinds.

Stock that is intended to produce exhibition blooms should be planted the last of May or by June 10 at the latest. We find that we get as good results from six

inches of soil as when a greater depth is used, so I would not advise planting in any deeper benches than the regulation. Stock planted as early as this needs ample room and should be set nine to ten inches apart. They will also require at least seven feet of head room and a little more if they can have it, for a great many of our best varieties will use up all of this. The question of what kind of soil to use must be governed to a certain extent by the nature of the soil in the locality where we may be situated. Chrysanthemums respond readily to a good, rich compost, but in using a very rich soil greater care will have to be taken to get them started right.

A little over-watering before the plants have become used to the soil will make a great many of them turn yellow and get disease, and plants so affected will never amount to anything. Some seasons our soil in this western country will be as dry as powder and if put onto the benches in this condition it is difficult to get the water to work down evenly to the bottom; consequently the roots of the plants derive very little benefit from watering while soil is in this condition. The better way is to turn the hose onto the compost pile before bringing it into the house. By doing this you can have the soil in any condition you want. This season we used the prairie sod as found in this locality, mixing it as follows: Two loads of sod, one load of clay, one of well rotted cow manure, and after on the benches a liberal sprinkling of fine bone meal was forked into it. This has given us excellent results. After planting chrysanthemums will stand all the sunshine and ventilation they can get, also liberal syringings should be given them two or three times a day.

After the plants are well started keep the soil open by scratching the surface

every little while and keep the beds clear of weeds. This, together with picking the lateral shoots out and attending to the tying, will be the general routine of the work in caring for the plants from the time they are planted until the buds are ready to take.

While mapping out the plan for planting the character of growth and time of flowering of the several varieties should be taken into consideration, the tall and dwarf growers kept separate, also the early, mid-season and late ones planted in sections by themselves. A great deal has been written about the proper time to take the buds, but this most important matter must be governed by the variety in question, also considering the time of planting. Early planted stock, if kept growing actively, can be timed to form a bud between the middle and the end of July. This one must be rubbed out, throwing the plants into growth again, giving them time to make another bud from August 20 on, which, according to my experience, in nearly all cases will make the finest bloom.

I timed several varieties this season on various buds. Col. Appleton buds taken between August 26 and September 10 have developed magnificent blooms with centers full up, ready to cut October 25. Mrs. Jerome Jones buds taken at the same time are showing full flowers, solid to center, ready to cut October 30. Our experience with Timothy Eaton being very limited until this season, I was a little doubtful about taking an August bud, so had them removed excepting on about fifty plants, buds of which were taken the last week in August. These have developed into massive blooms and were ready to cut November 1. The plants of which the August bud was rubbed out went right into growth again and added another two feet of stem, with the result that November 1 not any of them are ready and the blooms are not nearly so good. The first lot attained a height of four and one-half feet and the later ones six and one-half feet. With the variety Mrs. Coombes, buds taken the last of August made wonderful blooms, ready to cut October 20, of very much greater depth and fuller flowers than on the plants where a later bud was taken. I do not wish to be understood that this bud is the only bud to take and am only giving you my experience, hoping other growers will do the same.

Referring to liquid manures, I do not use the commercial fertilizers to any great extent except an occasional dose of nitrate of soda and a dressing of Clay's. In applying liquids we always use a Kinney pump. We give just as much attention to temperature and ventilation in our chrysanthemum houses as we do in the rose, palm or fern houses and aim to have the night temperature as near as possible 50°, especially when the petals are unfolding. After the flower is part way out we sometimes have to raise this slightly to keep the moisture from settling on the blooms. When they are half open we shade the glass a little; this we find a great help in keeping them from burning, also develops the bloom slowly and hence gives them greater substance.

BURLINGTON, VT.—The annual flower show was held in Masonic Temple on November 11-13. There were fine promising collections of flowers from Dr. W. Seward Webb, W. J. Van Patten, S. L. Griffith, Mrs. F. Billings and others and orchids from Lager & Hurrell.

Border Chrysanthemums.

BY PATRICK O'MARA, NEW YORK.

[Presented to the Chrysanthemum Society of America at the Chicago convention, November 12-13, 1902.]

It is a somewhat difficult task to prepare a paper, brief as it must of necessity be, on the subject given. The first snag is that this being read before a national society, it ought to be so prepared as to be applicable to the entire country. To follow the curves and waves of the isothermal lines which the maps show on the United States is a task beyond me; to say that this or that variety would do well here and not there is to invite in advance challenges as to accuracy of statement from which I shrink.

This preamble is based upon the assumption that the coiner of the title assigned to me had in mind the preparation of a paper on hardy chrysanthemums for the border. Perhaps his idea was to obtain a paper on the outdoor culture of "queen mums;" if that assumption be correct the task is simplified, bearing in mind the adage "Fools rush in where angels fear to tread."

In these days when all the flowers grown for market and exhibition are produced under glass, it would seem ridiculous to attempt growing chrysanthemums in any other way to compete with them, yet it is only a few years ago when Wm. Tricker literally "swept the deck" with flowers grown in an outside border, and that, too, in the metropolis of the country. It is he who should write a paper on this subject, for it is the man who has accomplished the difficult, I might almost say, the seemingly impossible, who can best tell how it was done. I well remember the amazement of the "experts" as they looked at the fine flowers he displayed, many of them being varieties which were then regarded as being obsolete. It was there demonstrated once again that care and attention with a knowledge of the requirements of the plants under treatment can accomplish what would seem to be the impossible.

This paper will be read before men who are specialists in chrysanthemum culture, therefore it would seem like "carrying coals to Newcastle" to dilate on soils, pinching, watering and so forth, but as it may be read by others not so well versed in the "a, b, c" of the gentle, commonplace art of gardening, a few words at least would seem to be essential on these and kindred matters pertaining to the subject embodied in the title of this paper.

If the cultivator has a greenhouse he will put in his cuttings in February, in a temperature of say 50°, potting them when rooted, of course, and seeing to it that they are watered and shaded so that they are not checked in their development. Of all plants it may be safely said that none are more sensitive to a check than is the chrysanthemum and none are more disastrously affected thereby. It may also be said in general terms that good, rich, fibrous soil is a necessity to successful culture. To these must be added the other necessities of a free circulation of air, care in not overcrowding and shifting at the proper time.

By careful attention to these necessary details fine plants should be had for setting out in May, say from the tenth to the fifteenth, in the latitude of New York. There is nothing more unreliable, however, than fixing an arbitrary date for outdoor planting. The weather conditions prevailing at the time must deter-

mine whether the propitious season has arrived; hence the cultivator must determine for himself from the existing weather conditions whether or not it is best to plant out. It is safe to say that it is better to be a little late than early.

The border should be a deep rich loam and well drained. When practicable or possible I would advise selecting the south side of a fence for a border. This situation will be best in the late fall days even if it has some disadvantages in the "dog days." Some of the disadvantages are that their friends, the bugs, to use a general term, will in all likelihood find that situation very congenial for their well being and will assemble in force to regale themselves on the repast of juicy foliage. The aphides, green and black, will come and tobacco dust must be used liberally to checkmate them. With a strong force of water and a fine spray nozzle in addition they can be kept away; but they must not be allowed to get a foothold or the task is multiplied many times. Caterpillars are likely to come and must be picked off. The squash bug will find them, too, if he is in the neighborhood, and he very generally is; he knows a square meal when it is spread for him. The grasshoppers, plague upon them, come around too; these fellows must be taken by the neck, or any other convenient part, and unceremoniously ground into fertilizer—by the foot is a good way and very convenient. The brown fly will surely come too, and he must be gotten rid of in the same manner.

By the middle of August if all these matters are attended to properly, strong, bushy plants, maybe a couple of feet high and wide, are the result and the foundation is laid for the fall feast of flowers. By that time all pinching back must be stopped. The flowering shoots, and they are all of that character, are allowed to develop and soon the disbudding begins. All the buds but one on each shoot, generally speaking the topmost one, had better be rubbed off so as to get better flowers at the expense of quantity. At this time liquid manure will be found beneficial, in fact necessary for the best results. Sheep manure makes a good liquid fertilizer. In the absence of this—but it is easily obtainable—barnyard manure can be used as a liquid stimulant. The quantity to be used is best determined by the condition of the plants and it is always best to wash it in thoroughly immediately after applying. Staking will of course be found necessary in most cases, that will suggest itself.

With the approach of cool nights protection will be found necessary. The best plan is to provide what is commonly known as "protecting cloth," a medium heavy grade of muslin which has been oiled. This can be tacked to the top of the fence, having previously sewed it into proper widths; put up a light support in front of the border to sustain it and pull it down at night. By this method all the early flowering varieties may be grown outdoors in the north.

It is unnecessary to burden this paper with a list of the kinds but I will mention a few as a guide: Mme. Bergmann, Mme. Gastellier, Glory of Pacific, Polly Rose, Monrovia, Primo, Solar Queen, Lady Fitzwygram, Day Dawn, Mrs. Henry Robinson, Marion Henderson, Mrs. E. G. Hill, Rose Owen, Yellow Queen.

The pompon varieties are all essentially "border" chrysanthemums, being hardy. Although not requiring the same amount of care as the others, yet they are benefited by it and well repay the extra labor.



A VIEW IN THE NEWLY ESTABLISHED PHILADELPHIA WHOLESALE FLOWER MARKET.

Philadelphia Wholesale Flower Market.

The Philadelphia Wholesale Flower Market is already going beyond the expectations of its founders. Manager Meehan says: "We cannot get flowers enough; our growers are cleaned out every morning as soon as they open up." W. Foulds, one of the growers who formerly peddled his stock, said one day last week: "Just look; I'm cleaned out and ready to go home when last year this time in the morning I was only over one-third of my route. It's a great saving of both time and money to me." This is the statement of other stall renters, all claiming the market a great advantage to them. W. K. Harris has handled a great many chrysanthemums since the market opened and has done it much quicker and more satisfactorily to his customers than by the old method.

In order to increase its efficiency the company will handle on consignment good stock of all kinds for its stall renters if they are not able to be on the ground. Every consignor must first rent a stall, the price of which is \$50 a year, payable monthly, in advance. Then for its services in handling and selling the stock, guaranteeing accounts, and so forth, the charge is a commission of ten per cent. The company has an elegant floor space of 9,000 square feet equipped with all the modern facilities for handling cut flowers and plants. The room is well lighted on three sides, has freight and passenger elevator service, long distance telephone and is convenient to depots. At present the hours are from 7:30 a. m. to 6 p. m., but will no doubt be lengthened as the service requires. Messrs. H. A. Dreer, W. K. Harris and Jos. Heacock are carrying stocks of plants from which orders are taken or the stock sold for immediate delivery. They are all much pleased with their business.

While the above is an account of actual

conditions, there are some who for personal reasons are not in favor of the movement and are giving it short terms of existence. There are always some men in every community who never entirely countenance or support any movement looking to the general welfare of their business. When, however, it goes ahead and meets with success without and in spite of them they are pretty sure to be found safely inside reaping the benefits of the hard work of others. Every florist in the community, be he grower or dealer, should work for the success of this enterprise, as each additional supporter will build up and increase its efficiency, and by so doing reap the reward in the better service which is sure to follow such co-operation.

ROBT. KIPT.

Hartford, Conn.

The first annual banquet of the Hartford Florists' Club, at the Hotel Heublein on the evening of Monday, November 17, was a most delightful affair. The invited guests included President J. N. Champion, with five members of the New Haven Horticultural Society, and Secretary W. J. Stewart of the S. A. F. The cozy subterranean den in which the banquet was held, with its colored hanging lanterns, quaint mediæval architecture and illuminated German inscriptions, looked very beautiful in its dress of green and flowers. Groups of ferns and palms filled the niches and corners, three gorgeous mounds of chrysanthemums, roses, carnations and cyclamens, with scroll-work of smilax, adorned the table and a big Lawson carnation lay alongside each plate. The material was supplied by members of the club and the decorations were the work of Aloise Frey, the junior member of Hartford's floral colony. The menu was decidedly novel, being all hand work throughout, each individual's copy being embellished in

colors, with the representation of some scenery or incident, humorous or sentimental, appropriately suggestive of the tastes or occupation of the recipient. This was the work of Chas. Welty, a young man in the park department.

A. C. Sternberg made an eloquent and jovial toastmaster. When the time for talking had arrived he expressed briefly his congratulations on what this young club had accomplished in the past year and extended a joyous welcome to the honored guests of the evening, calling upon President Thos. McDonald to respond. Mr. McDonald also voiced a cordial greeting to the visitors and told of the early struggles of the organization now closing so felicitously the second year of its existence. The next speaker called upon was Mr. Stewart, who, responding for the American florists, said that commercial floriculture in America furnished in its marvelous development during the past quarter of a century one of the most impressive examples of American progressiveness and referred to the ambition to excel, so universally characteristic of the profession, as promising still greater attainments, socially as well as commercially, in the future.

J. N. Champion responded for the Connecticut societies. He told of the varying vicissitudes of the New Haven Horticultural Society, which, although but a year younger than the Massachusetts society, had maintained for many years a very precarious existence, meeting sometimes in a police court and sometimes in a savings bank, but which now, under the reviving influence of young florist blood, had started out on a prosperous career and with the rare record of a very successful exhibition this fall, to its credit. G. A. Parker spoke for the Connecticut parks. He told of the remarkable development of the park idea within ten years and the great increase

in extent of public reservations which is none too large, considering the disproportionate growth of urban populations and the necessity of providing wholesome breathing places and cleanly surroundings, together with the elevating influences of park scenery. He closed by reading a tale of woe done in verse by ex-Superintendent Keith, of Bridgeport, describing the author's experiences during a sojourn in North Carolina.

G. H. Osborne, replying to the toast, "Commercial Floriculture," gave a graphic account of some of the obstacles confronting the florist, illustrated with pertinent anecdotes, and saw in the beneficent influence of the S. A. F. and other organizations the most hopeful agency for the advancement of the profession. Theo. Wirth presented a very witty communication on the intrinsic value of decorative ability in painting as well as floral and landscape work and strongly advocated more liberality in the use of flowering plants in park work.

J. F. Huss contributed some amusing reminiscences, J. F. Coombs, the "handsome secretary," made response for the ladies, G. X. Amrhy brought good wishes from New Haven, A. Frey stood up while three cheers were accorded him and W. J. Stewart led the chorals in Annie Laurie. Then, at midnight, the party broke up and dispersed, all enthusiastic over the excellent repast and faultless service provided by mine host Heublein.

New York.

TRADE DULL.—VIOLETS LITTLE WORN AT THE HORSE SHOW.—GROWERS GREATLY DISAPPOINTED.—ROSES SCARCE.—TAYLOR SHOWS LAWSON IN EXCELLENT SHAPE.—NEW COMMISSION HOUSE.—VARIOUS NOTES.

There is a very dull market this week notwithstanding the horse show, which is counted on ordinarily to help out on the surplus. The violet people are especial sufferers. The old tradition regarding the violet and its indispensability at the Madison Square horse show seems to have retained sufficient life to make a deal of trouble. Visitors at the great function report that the most infrequent thing to be found there is a bunch of violets and the sales record of the commissionmen emphatically endorses this presentation, yet there is a sufficient number of antiquated people who think that the only royal road to fame and fortune is to double the price of violets during horse show week. More violets have been sold at 40 cents or 50 cents a hundred than at any other price this week and a good many have not been sold at all, but a few gilt-edged consignments have reached \$1.25. Roses are scarce. Were it not for the chrysanthemums which accumulate regardless of results it is quite possible that the roses would make a November record worth preserving. White roses are called for but do not materialize when wanted and American Beauty buyers must keep reasonably near the dozen classification as hundreds are out of the question. The call for cattleyas also exceeds the supply. In short, it only requires a sudden pinch in the weather conditions to bring about a decidedly bull market in New York.

A party comprising thirty-five prominent commercial growers for the New York market visited Briarcliff Greenhouses, at Scarborough, on Thursday, November 20, on invitation to inspect the new greenhouse recently completed by the Pierson-Sefton Company. The structure, which is 55x300 feet, is of galvanized steel throughout and repre-

sents the highest development of greenhouse construction. The guests were welcomed by the owner, Mr. Law, and escorted over the vast estate by the manager, Paul M. Pierson, the vast plantations of Beauty and Liberty roses being greatly admired for their vigor and promise of luxuriant crops. After dinner at the beautiful Briarcliff Inn the party was conveyed in carriages through the great stock farm and dairy departments and thence for a brief look at the Pierson greenhouses. Among visitors from distant points were A. N. Pierson and Wallace Pierson, Cromwell, Conn.; Edwin Lonsdale and Joseph Heacock, Philadelphia; Benj. Dorrance, Wilkesbarre; Alex. Montgomery and W. J. Stewart, Boston.

At John H. Taylor's there is an opportunity for those interested to see Lawson carnation at its best. Mr. Taylor has 12,000 Lawsons planted and they are eloquent examples of vigor and health, bristling with tall flower stems and innumerable buds that suggest gilt-edged Christmas profits. The flowers are remarkably bright and uniform in color, as are also those of Prosperity, which is now yielding its second crop, scattering it is true, as is characteristic of the variety, but every flower a standard. Mr. Taylor is lukewarm on Crane and Gomez, both of which seem with him to have lost constitution, and Hoosier Maid is decidedly dubious, while Floriana, Harry Fenn and Manley are temptingly promising. Norway is at present doing better than it did last season and is throwing some grand blooms. Roses generally are behind hand with Mr. Taylor and there is no prospect of a surplus for many moons. Green cord-wood is giving great satisfaction as an auxiliary to soft coal in the heating department. The combination seems to work all right.

A new commission house on Twenty-ninth street is the sensation of the hour in the wholesale cut flower section. Henry Reidell, for many years employed with Thos. Young, Jr., has formed a partnership with F. Spicer and opened for business as H. Reidell & Company, at 34 W. Twenty-ninth street.

L. B. Coddington and Miss A. E. Chandler were married at Roselle, N. J., on November 20.

W. Seitz, of Bayside, died Thursday, November 13, a victim of the strenuous life and typhoid fever.

Wesley B. Lesh was married to Miss Florence Avers, at Astoria, November 12.

George Golsner mourns the loss of a son, fourteen years old, on November 17.

Visitors in town: Sam. McClements, of Pittsburg, and a whole bunch of up-the-Hudson violet growers.

Boston.

PROSPECTS FOR A GOOD MARKET AT LAST. PERIOD OF DEPRESSION ENDED.—THANKSGIVING BRINGS RELIEF.—VARIOUS LOCAL NOTES.

After going through a period of two weeks unanimously acknowledged to have been among the most spiritless and disheartening ever experienced in the floral trade of this section, growers and dealers now begin to discern light ahead. Nothing is expected from the present week and it is conceded that it will make fit company for its two immediate predecessors, but the coming week, with its Thanksgiving demand, will, undoubtedly, go on record, as heretofore in New England, as a winner, and since the main chrysanthemum season is booked for an

abnormally early closing this year on account of the unprecedented high temperatures of this November, no uneasiness is felt regarding the period following Thanksgiving week. The carnation market has given the most marked evidence of suffering from the incursion of the chrysanthemum. Roses have little to crow about, it is true, but they can at least congratulate themselves on the fact that the carnations have had to endure the greater humiliation. Roses promise to be in rather short supply in the immediate future. Violets remain about stationary.

Much sympathy is felt in the trade for Wilfred Wheeler, of Concord, who, while hunting for deer in the Maine woods, on November 13 accidentally shot and killed John Hager, a guide.

The November meeting of the Horticultural Club on Thursday evening, November 20, was well attended, Ed. Hatch presiding at the board.

Edward Kirk, gardener for George Vanderbilt at Bar Harbor, sailed for a visit to England on the Dominion Line steamer, November 11.

Chicago.

WEEK BRINGS GOOD BUSINESS ON SHORT SUPPLIES OF ROSES—MANY ORDERS TURNED DOWN.—RECEIPTS LIGHT FOR THANKSGIVING.—CARNATIONS AND VIOLETS PLENTIFUL.—CHRYSANTHEMUM CROP DECLINING.—QUALITY AFFECTED BY THE WEATHER.—A VARIETY OF TRADE JOTTINGS.

The week has been a quiet one except as regards the market situation. Little of interest has transpired since the exodus of the trade visitors in the last hours of the flower show, but business has been fairly active and cuts of roses so reduced that wholesalers have experienced much difficulty in filling orders. The Beauty crop has fallen away all at once and in most of the houses more orders been rejected this week than have been filled. The weather was for days cold, dark and damp, and it not only took the color out of the buds but held back the stock and weakened the plants. Tea roses are in equally reduced supply and show the effects of the weather to an even greater degree, with the result that there is little really first-class stock in the market. Carnations come along in increased quantities and steadily improving quality and a few days of good weather would make the stock all that one could ask. Violets are among the most plentiful items in the market and the quality is generally good. There have been some large funeral orders during the current week which have used up large quantities of violets at a fair price. But this is an item for which there is little out of town demand and it looks as though the supplies would be all the market could handle locally this winter. Chrysanthemums seem already on the down grade. Supplies are not nearly so heavy as ten days ago, and the high-class exhibition blooms are not frequently encountered. It looks as though the cut is to be not only off very early this year, but it appears that the damp weather recently encountered has had a disastrous effect on qualities. As to Thanksgiving, the prospect is that supplies of roses will be inadequate. There will likely be all the carnations that can be used to advantage. Growers are strongly advised not to hold back carnation shipments, but to send the stock along daily from now on. A general holding back would certainly result in breaking the market on Tuesday and

Wednesday, with a disastrous effect all along the line.

At the Palmer House last Saturday there was a meeting of growers interested in organizing a corporation to establish a flower market similar to the one recently opened in Philadelphia. They have called another meeting for Iten's Hall, Lincoln avenue and Winona street, for three o'clock this afternoon.

The Pictorial Printing Company, of which O. P. Bassett is president, has decided to remove to Aurora, and Mr. Bassett goes out each day to superintend building operations there. They will have a large three-story brick building admirably located.

W. N. Rudd states that it was an error in the flower show programme which credited the premiums for boxes of cut flowers to Ed. F. Winterson. It was not donated by Mr. Winterson, but by Mr. Winterson's firm, McKellar & Winterson.

E. E. Pieser says he never saw the like of the way violets are coming into this market at present. On Tuesday Kennicotts sold over \$100 worth to one buyer and had plenty for all others.

A. C. Kohlbrand, of Amling's, has been on the sick list a day or two this week. Max Ringier, of the same house, is just getting about after his operation for appendicitis.

Joseph Milton, one of the visiting florists from Minneapolis, was robbed of his money and watch after the close of the flower show last week.

C. L. Washburn returned Wednesday from Alma, Mich., leaving Mrs. Washburn slightly improved in health.

Peter Reinberg is getting a good cut of Sunrise and Chateaux and finds the demand big at present.

A. Lange says that he was unable to find a profit in the sales booth at the flower show.

Cassie Arnold, of Omaha, is spending a few days with friends in the city enroute to Boston.

Louis Gresenz has been on the sick list this week.

Visitors: John Degnan, of Minneapolis; C. H. Jackson, of Oconomowoc, Wis.

Philadelphia.

TRADE FULLY UP TO AVERAGES FOR THE SEASON.—MOST ITEMS SELLING WELL.—PRICES GOOD.—DETAILS OF THE FIGURES.—VARIOUS LOCAL NOTES.

Business is quite up to the standard of the year, there being a good demand for everything with the exception of carnations. While there are a great many chrysanthemums about, they seem to be moved without trouble. Prices range from \$6 to \$20 per hundred. There is also a good demand for a smaller size, something about \$4 per hundred, and that could be handled in bunches of one dozen each. If some of the growers would make a specialty of this size I believe it would pay as well as the larger sizes. Beauties are fairly plentiful but they are all sold at good prices, ranging from \$1.50 to \$5 per dozen. The quality is very good. Bridesmaid roses are poor, in fact have been so all fall. With a few exceptions the color is pale and the second day they are positively good for nothing. Teas are selling for from \$6 to \$8. Jacob Becker is cutting some fine La France for which he gets \$10 per hundred. His new sport from La France, called Ideal, is coming on finely and promises to be a winner. Pennock Brothers have brought the entire crop of flowers for the winter.

Carnations are very good but it takes something extra to tempt buyers at this time, as chrysanthemums hold on well and will until after Thanksgiving day. Prices range from 75 cents to \$2.50 per hundred, the latter for extra Lawsons. Violets have moved up a peg, the choice of the doubles now bringing \$1 per hundred. This is a great city for single violets and many hundred bunches are sold every day at from 25 cents to 35 cents per hundred. Some Paper Whites are in; \$3 to \$4 is the price. Sweet peas, although very much out of season, sell quite well at from 75 cents to \$1 per hundred.

James Cole has four houses of chrysanthemums in pots which are very well done and for which he has an active demand. The varieties are Major Bonaffon, White Bonaffon, W. H. Lincoln, Mrs. Jerome Jones and the yellow sport of Maud Dean. A few Timothy Eatons were tried but it was a waste of room and pots.

Wanamaker's department store has had a large display of orchids, palms and chrysanthemums the past two weeks, all of which were for sale, placed there on commission by a large grower.

George W. Grover sued one Henry W. McFassell for the price of some funeral flowers and received judgment for \$41.54. The defendant claimed the flowers were ordered by his son.

Chas. D. Ball says that this is the best year in the palm business, his September shipments breaking all records. Other growers also report a good demand.

Oglesby B. Paul has been appointed landscape gardener by the park commission, to succeed the late Charles H. Miller.

The Pennsylvania Railroad Company has instructed agents to receive no more perishable freight until further orders.

K.

Buffalo.

DEPARTMENT STORE GIVES A SUCCESSFUL CHRYSANTHEMUM SHOW.—FLORISTS ALL ASSIST.—LIST OF THE PRIZE WINNERS.—VARIOUS TRADE NOTES.

The H. A. Meldrum Co., proprietors of one of the leading department stores, made a great hit last week with a chrysanthemum show, for which they enlisted the aid of most of the florists by offering \$500 in premiums. The exhibition occupied almost all of the fourth floor and the attendance was so large that they are planning a show for next year with three times as much prize money. Much good stock was shown, the following being the prize winners: In the class for twenty-five chrysanthemum blooms, open only to Erie county growers, all showed Eaton, the premiums being awarded to D. Newlands & Co., S. A. Anderson and Wm. Scott. In twenty-five yellow, Scott was first with Appleton, Newlands second with Golden Wedding, and Anderson third, with Appleton. For pink all showed Maud Dean, the prizes going to Wm. Belsey, Wm. Scott and S. A. Anderson in the order named. In the open class all again showed Eaton for white. W. F. Kasting won, Scott second and Anderson third. Kasting also won with Maud Dean for pink, Anderson second and Scott third with Mlle. Marie Liger. For yellow, Scott was first with Appleton, Kasting second with Golden Wedding and Anderson third with Appleton. In ten varieties, ten blooms each, Anderson was first, Scott second and G. Reichert third. For twenty-five blooms, one variety, Nathan Smith & Son, Adrian, Mich., were first, Scott second

and Anderson third. In handle basket and flat basket Anderson was first and Scott second, C. D. Zimmermann being third in the latter. Anderson was also first for original design, Scott second and L. H. Neubeck third. Anderson had the best vase of chrysanthemums, Scott second. The novelty of the show was Velvety Eaton, seen here for the first time. The blooms were grown by A. N. Pierson, Cromwell, Conn., and were exhibited by Anderson.

Palmer & Son opened their handsome new branch store last Saturday. It makes a very imposing appearance, having about fifty feet of plate glass windows in two of the best business streets in town, the corner of Main and Genesee streets. Of course the store is modern in every particular, the fittings being of the best. Miss Ruby Mack and Miss Hunter, from the downtown store, are in charge.

Trade has been about normal during the past couple of weeks, with fair supplies of stock in all lines.

A recent visitor was J. L. Dillon, of Bloomsburg, Pa. BRON.

WILKESBARRE, Pa.—The partnership of Harvey & Hoever, at Plainville, has been dissolved and the firm is succeeded by Thomas Harvey.

W. SPRINGFIELD, MASS.—W. S. Bragg makes an annual gift of Chinese lily bulbs to each room in the public schools. He finds it a good advertisement.

AURORA, ILL.—J. M. Smely has bought the greenhouse and residence property he has been leasing from Roscoe Saunders. The consideration was \$10,000.

DELAWARE, Wis.—N. O. Caswell has his plant of 3,500 feet of glass in good shape. He has torn down 2,500 feet of old houses and will rebuild during the winter.

CHATTANOOGA, TENN.—Mrs. J. W. Crouch gave a chrysanthemum show, with three houses full of fine stock, and received a very satisfactory number of visitors.

TOLEDO, O.—Moore W. Mahaffey, who recently sold out his florist business, has bought for \$2,000 a tract of land on which he proposes to build a range of greenhouses.

ST. JOSEPH, Mo.—Frank Stuppy thinks that this city has had this season as good chrysanthemums as were shown at Kansas City. Stock never was better and sold well.

RICHMOND, VA.—Mark T. Thompson had a good season with dahlias and a good season with chrysanthemums. He is planning many improvements in his place before another summer comes.

RUTLAND, VT.—The C. H. Miles greenhouses on Church street have been bought by Geo. E. Hunt, who has been gardener at the State Industrial School at Vergennes for the past seven years.

MIDDLETOWN, OHIO.—Henry Behrens began business here thirty-eight years ago, raising bedding plants and vegetables in hotbeds. Now he has a modern range of 10,000 feet of glass well stocked.

HINSDALE, MASS.—The fern pickers in the Berkshire Hills are experiencing some opposition from owners of the tracts over which they pick. The Pittsfield *Sun* characterizes the fern fields as "better than gold mines," and it is evident that a very magnified estimate of the financial yield of the "greens" industry has taken possession of the proprietors of this otherwise unproductive land.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines *only*.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

EARLY copy will be thankfully received
next week; Thursday is a holiday.

It is announced that "Mechan's
Monthly" will suspend publication next
month.

F. J. Taggart says he is out of the
flower show business, but he said the
same thing a year ago.

ON a conservative estimate 12,000 carnation
blooms were displayed at the
Chicago flower show last week.

THE flower show idea appears to be
growing in popularity in all sections and
florists will do well to encourage it.

THE freshness of the blooms on the
closing day of the Chicago flower show
proved Norway to be one of the best
keepers among up-to-date carnations.

WE are in receipt of Part I, Vol. VI, of
the proceedings of the sixth annual meet-
ing of the American Park and Outdoor
Art Association, held at Boston August
last.

THE whole number of certificates
granted by the Chrysanthemum Society
of America from its organization to and
including 1901 is 231, not 131 as stated
in President Herrington's address read
at Chicago and published by the trade
press last week.

J. C. KENNISON, of Sioux City, Ia.,
informs us that for several years he has
been subject to poisoning about the eyes,
neck and wrists through handling chrys-
anthemums during their season. If there
are any others of our readers who have
been similarly troubled, it would be
interesting to hear from them. It is said
that Japanese ladies, who sometimes
wear the flowers about the neck and
head, are affected in the same way.

Price of Glass.

The present quotation for American
window glass, as given by John Lucas &
Company, averages as follows:

Less than car lots, 89 to 90 per cent.
Car lots, 90 and 5 to 91 and 10 per cent.

The list on 16x24 double strength A is
\$45.50 and on B \$41.50. Therefore the
price for the former would range from
\$4.10 to \$5 per box and for the latter
\$3.75 to \$4.57. The list on single
strength A, 16x20 to 16x24, is \$30 and
on B \$28, to which the above discounts
apply. These quotations are f. o. b.
Pittsburg, Philadelphia or Muncie, Ind.
To obtain carload price the purchase
must equal a minimum weight shipment
of 30,000 pounds, based on a weight of
seventy pounds to the box for single thick
and 100 pounds to the box for double.

Welcome and Valuable.

ED. AM. FLORIST:—We enclose check for
\$1 for which please extend our subscrip-
tion to your welcome and valuable
journal. ROGERS BROS.
Chaumont, N. Y.

Carnation Adonis.

We are in receipt of a photograph show-
ing one of the large houses of Carnation
Adonis in excellent condition at the
establishment of Robert Craig & Son,
Philadelphia, November 11. In our issue
of March 8, 1902, we reproduced a pho-
tograph showing a bench of this variety
at the same place, and the present picture
shows that it has retained all its vigor
and continues to produce its high class
blooms in surprising quantity. In this
connection it is now interesting to find
that the first illustration of Adonis
appeared in the AMERICAN FLORIST, Feb-
ruary 17, 1899.

Hail Association Pays Promptly.

The following letter, under date of
November 12, has been addressed to
John G. Esler, of the Florists' Hail Assoc-
iation, by A. D. Cunningham, secretary
of the board of trustees of the Missouri
Botanical Garden, St. Louis:

Please accept thanks for check in full pay-
ment of our loss by hail October 12, 1902. We also
wish to express to you our appreciation of the
prompt and satisfactory manner in which you
have settled our claim.

This is a very pleasing condition of
affairs and one that should commend the
association and its methods to all green-
housemen.

Greenhouse Building.

Gardner, Mass.—J. B. Davis, cucumber
house.

Baldwinsville, Mass.—A. R. Paine,
cucumber house.

Toledo, O.—Moore W. Mahaffey, range
of houses.

Hillsdale, Mich.—S. J. Shank, one house.

Columbus, O.—Underwood Bros., one
house.

Cochituate, Mass.—George Fullick, four
houses.

Monson, Mass.—Samuel Closson, one
house.

Hudson, Mass.—Mrs. A. A. Smith, one
house.

York, Me.—W. G. Moulton & Son, one
house.

American Rose Society.

The executive committee of the Ameri-
can Rose Society met in Philadelphia on
Friday afternoon, November 14, and took
up the matter of preliminary arrange-
ments for the forthcoming exhibition and
convention, which will take place on
March 24, 25 and 26 in Horticultural
Hall, Philadelphia. The meeting and
exhibition will be held in conjunction
with the spring exhibition of the Penn-
sylvania Horticultural Society and the
joint premium list is now being prepared
and will be shortly issued.

The American Rose Society will offer a
very complete schedule of the rose classes
while the Pennsylvania Horticultural
Society's offers will be confined to
bulbous and other seasonable stock. In
addition to the regular prizes of the rose
society there has already been received
several promises of silver cups and other
special prizes in cash or plate, which will
be duly announced. Special inducements
will be held out for growers of rose
plants exhibited in groups.

LEONARD BARRON, Sec'y.

Society of American Florists.

DEPARTMENT OF PLANT REGISTRATION.

The Conard & Jones Company, West
Grove, Pa., registers the following new
cannas: Hiawatha, bronze foliage striped
with green; flowers rosy-pink, dappled
silver blush, bordered cerise; height about
three feet. Chautaugua, bronze foliage,
flowers vivid scarlet; trusses carried high
above foliage. Gladiator, foliage leath-
ery green; flowers yellow, spotted crimson;
smaller center petals solid crimson;
height four to five feet. Louise, flowers
soft rose-pink delicately dappled and
streaked red; petals long; flower spikes
unusually large; height about five feet.

Hoopes Bro. & Thomas, West Chester,
Pa., register the following new roses:
Prof. C. S. Sargent (Wichuraiana ×
Souvenir d' Auguste Metral). Foliage
deep green and shining. Branches and
young leaves all deep red or mahogany-
colored. Deep golden-yellow in bud;
open flowers of perfect form, very double,
two and one-half inches in diameter, deli-
cate buff shaded to a decided richer tone
at the center. Fragrance very decided
and pleasant.

Wm. F. Dreer (Wichuraiana × Bon
Silene). Foliage rather small and slightly
glossy. Blooms in clusters with a bud
similar to Mme. Elie Lambert, creamy-
white bordered with bright rosy-pink.
Open flowers, quite double, two and one-
half inches in diameter, pure white or
creamy-white and exceedingly fragrant,
like its pollen parent.

Wm. K. Harris (Wichuraiana × Bon
Silene). A vigorous grower, with bright
green, shining foliage. Flowers pale
flesh-color, about two inches in diameter,
double to the center, blooming freely in
clusters. Fragrance very marked and
similar to its pollen parent.

Robert Craig (Wichuraiana × Beaute
Inconstante). Foliage rich glossy green.
Bud perfect in form, yellowish to light
apricot in tint. Open flower full to the
center, two and one-half inches in diame-
ter, yellow shaded with apricot, deepening
to the center, being a combination of
yellow, apricot and fawn, in the way of
Wm. Allen Richardson.

Edwin Lonsdale (Wichuraiana ×
Safrano). Reddish tints on the young
shoots, with dark glossy green leaves.
Flowers two to three inches in diameter,
quite double, pale lemon-white, with a
delicate tea fragrance. Bud well formed.

John Burton (Wichuraiana × Safrano).
Rather small but not glossy foliage.
Flowers medium in size, very double and
of a delicate pink or peach color, similar
to La France. Fragrance very delicate
and decided.

WM. J. STEWART, Sec'y.

Chrysanthemum Society of America.

Following are the reports of the com-
mittees judging seedlings, sports and
new importations:

Boston, November 10.—The E. G. Hill
Company, Richmond, Indiana, exhibited
Dr. Oronbyatekha, sport of Timothy
Eaton, light yellow, Japanese incurved,
which scored 91 points both commercial
and exhibition scales. T. D. Hatfield,
Wellesley, Mass., exhibited a sport of
Oriental Glory, yellow, tinged apricot,
Japanese incurved, which scored 85
points exhibition scale.

New York, November 15.—The E. G.
Hill Company exhibited R. E. Richard-
son, bright rose pink, silvery reverse,
incurved Japanese, which scored 89
points commercial scale. John N. May,
Summit, N. J., exhibited Mrs. R. W.

Smith, creamy white, Japanese, which scored 87 points commercial scale. Uwanta, by same exhibitor, magenta rose, Japanese reflexed, scored 85 points commercial scale. Herman C. Steinhoff, West Hoboken, N. J., exhibited Catherine Steinhoff, a pink sport of Maud Dean, Japanese incurved, which scored 74 points commercial scale.

Cincinnati, November 15.—The E. G. Hill Company exhibited R. E. Richardson which scored 92 points commercial scale. Nathan Smith & Son, Adrian, Mich., exhibited a yellow variety, Japanese reflexed (same as Nagoya) which scored 79 points commercial scale. This variety has been named H. W. Buckbee.

Philadelphia, November 15.—The E. G. Hill Company exhibited R. E. Richardson which scored 89 points commercial scale, 87 points exhibition scale.

Chicago, November 15. — Vaughan's Seed Store, Chicago, exhibited Golden Chadwick, yellow, incurved, which scored 92 points commercial scale. The E. G. Hill Company, Richmond, Ind., exhibited W. R. Church, red, incurved, which scored 76 points commercial scale, 82 points exhibition scale. Nathan Smith & Son, Adrian, Mich., exhibited the following varieties: H. W. Buckbee, yellow, reflexed, which scored 86 points commercial scale; Ethelyn, Daybreak pink, incurved, which scored 78 points commercial scale; Mrs. J. J. Mitchell, cream, incurved, scoring 89 points commercial scale; and Minnie Bailey, pink, which scored 85 points commercial scale.

The name of the variety exhibited by Nathan Smith & Son at Cincinnati, on November 8, as Jersey Cream has been changed to Mrs. J. J. Mitchell.

EDWIN LONSDALE, Sec'y.

OBITUARY.

LOUIS VALERE LEFEBVRE.

The dean of the seed trade of France, Louis Valere Lefebvre, died at his home on Raincy (Seine-et-Oise), October 17, 1902, in his ninety-first year. He was born at Blois, July 21, 1812, and about seventy-five years ago entered the employ of Vilmorin-Andrieux & Company, of which firm, through his application and energy, he soon became managing member. He had a good knowledge of plants and botany and did much of the preparatory work on the first edition of "Les Fleurs De Pleine Terre," which was issued in 1863. Early in the fifties he foresaw the wide field for seedsmen which was to open in the United States and was instrumental in sending Messrs. Mies (now dead) and Posth (still well remembered by the older generation of American seedsmen) to canvass North America before any other seedsmen had sent a representative to this country. After these two young men had acquired sufficient experience to take his place, Mr. Lefebvre retired from the firm, in 1863, and led a quiet home life, devoting himself to the fine arts, painting, etching, etc. During his whole lifetime, however, he kept in close touch with horticulture and the seed trade and always listened with lively interest to the glowing accounts which his nephew, Eugene Schaeffel, gave him of his annual trips to the United States and Canada, and of the growth there of the Vilmorin business. It was Mr. Lefebvre's good fortune to work in conjunction with the grandfather, father and mother of the lamented Henry De Vilmorin, who died prematurely in 1899 at the age of fifty-

six. He knew the latter gentleman from earliest childhood, also Maurice De Vilmorin, who is now an active member of the firm, and in his time Mr. Lefebvre saw the staff of the concern increase from less than fifty to over 500 permanent clerks. In his long life the deceased was most courteous and affable—beloved alike by the humble and the great—and he will be greatly missed by a wide circle of friends.

HILLSDALE, MICH.—S. J. Shank is preparing to add another large house.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By salesman of first-class stock. HUSTLER, care Am. Florist.

SITUATION WANTED—By a first-class all-around florist; 30 years' experience; good propagator; all references. State wages. Address JAMES WHITE, Vinemount, Ont.

SITUATION WANTED—By experienced florist and landscape gardener; 25 years' experience. Will take charge of private or commercial place. All references. U. care American Florist.

SITUATION WANTED—On private or commercial place, by single man, age 28; 6 years' experience; 1 year in last place. Please state wages when writing. Address M. H. Plainfield, N. J.

SITUATION WANTED—To take charge of section, or as foreman for roses, carnations, etc.; 8 years in charge of section with John N. May, Summit, N. J., to whom refer. Address WALTER DAY, Sterling, N. J.

SITUATION WANTED—By expert rose grower. To take charge of a retail place. Good grower of stock; Illinois or Indiana preferred; age 34; single. Address GEO. E. BEAL, 21 Conewango Ave., Warren, Pa.

SITUATION WANTED—By experienced, single, middle aged, temperate man, as grower and propagator. Well posted in landscape work and nursery stock. South preferred. Good references. Address J. C. J., care American Florist.

SITUATION WANTED—As working foreman either private or commercial place by single, temperate young Dane, good grower, designer and salesman. Best of references. State particulars and wages. COMPETENT, care Am. Florist.

SITUATION WANTED—By gardener age 30; single; 6 years' experience in France and Germany, 6 years in this country; desires position around Washington, Richmond, or further south. First-class references. Address GARDENER, care H. Schlosser, 155 E. 81st St., New York.

WANTED—A No. 1 storeman and decorator. Address P., care American Florist.

WANTED—Assistant florist for general greenhouse work. State wages wanted. Address F. BEU, 2780 North 40th Ave., Chicago.

WANTED—An experienced man, to grow roses, carnations, bedding plants, for retail trade. Address KANSAS, care American Florist.

WANTED—Single man for general greenhouse work; must have experience. State wages, with board. M. L. O'BRIEN, Sharon, Pa.

WANTED TO RENT—Greenhouses of 20,000 to 25,000 feet of glass; wanted by early spring; no old stock wanted. Address P. W., care American Florist.

WANTED—Young man with experience, as assistant decorator and storeman. Apply at once. THE J. M. GASSER Co., 234 Euclid Ave., Cleveland, Ohio.

WANTED—Experienced propagator of roses and carnations; also two boys 16 years of age, to learn the trade. FUEHLMANN BROS. Co., Morton Grove, Ill.

WANTED—A florist of general experience in the business; must be sober and industrious. State wages, with room, and references. Address W. W. STERTZING, Maplewood P. O., St. Louis, Mo.

WANTED—A young man that has had some experience in greenhouse work; must be sober, honest and good worker. State wages with board, and references in first letter. FRED. J. KING, 220 Madison St., Ottawa, Ill.

WANTED—A married man without children, German-American preferred, to take charge of nursery where the growing of small stock for transplanting is made a specialty. Must understand the propagation of hardy shrubs and evergreens from cuttings, be sober, industrious and well recommended. \$50 per month and a house. A permanent position to the right party. JOS. W. VESTAL & SONS, Little Rock, Ark.

FOR SALE OR RENT—6,000 ft. of glass, dwelling, sheds, etc. Bonanza for little cash. Be quick. DR. McFARLAND, White Hall, Ill.

FOR SALE—Horizontal tubular boiler 48x15 with plug hat dome and with 39 3/4-in. flues, very suitable for heating hot houses. Apply to WISCONSIN BOX CO., WAUSAU, Wis.

FOR SALE—An old established greenhouse business; entire plant rebuilt; steam heat. With all the ground or part; also with or without residence. Situated in Cleveland, O. A bargain. Address O. K., care American Florist.

SITUATION WANTED

AS HEAD GARDENER, on private place, by a thorough, competent, reliable, all-around man of 22 years' experience on largest establishment in England, 9 years as head, last 3 years head gardener and rose grower to member of National Rose Society; age 36, married, two children. Copies of testimonials and references on request. Address F. H., care American Florist.

WANTED AT ONCE....

ROSE PROPAGATOR who knows his business thoroughly. Must be experienced with cuttings and grafting. Give full particulars, experience in detail, references, wages expected, etc., with application and save time. Address

California Rose Co., Los Angeles, Cal.

FOR SALE, GREENHOUSES

Well established, in good repair, 12,000 ft. glass, fully stocked with fine Carnations, Callas, Smilax; full supply of everything necessary; fine dwelling house; hot water heating; will furnish five-year lease at the time; nine miles from Chicago courthouse. Price \$4,000; three-fourths cash. Good reason for selling. Address

E. CARE AMERICAN FLORIST.

FOR SALE.

GREENHOUSES, well-established business, 5,000 feet of glass, hot water heat, five acres garden, six-room house with cellar. Address

S. L. HARPER, Mechanicsburg, Ohio.

FOR SALE OR EXCHANGE.

Fully stocked greenhouses, 20 miles from Chicago; 25,000 feet of glass; steam heat; paying well; part cash, balance good real estate or time to right party. V J 95, Am. Florist.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

FOR SALE.

7,000 sq. feet 10x14 double thick glass.
5,000 sq. feet 16x24 double thick glass.
1,000 sq. feet 7x9 single thick glass.
1,000 sash bars; 75 hot bed sash.
7,000 feet 2-inch wrought iron pipe.
1,000 feet 1-inch wrought iron pipe.
2 Gurney, 2 Lydia, 2 coil boilers.

JAMES BURNS,
41 SECOND ST. EVERETT, MASS



No. 1. \$2.50
 No. 2. \$3.25
 No. 3. \$3.75
 No. 4. \$4.50
 No. 5. \$5.00
 No. 6. \$6.00

Caldwell's Quality Kounts Brand
Wild Smilax now on hand.

WHEN you want Flowers, any and all kinds, order from DEAMUD. He has in quantity the following:
ORCHIDS, Valley, Violets, Beauties, Tea Roses, Carnations, Chrysanthemums.

J. B. Deamud,
51-53 Wabash Ave., Chicago.

E. H. Hunt,
WHOLESALE.....
Cut Flowers
 THE "OLD RELIABLE,"
 76 Wabash Ave., CHICAGO.
Poehlmann Bros. Co.
 Wholesale Growers of
 and Dealers in **Cut Flowers**
 All telegraph and telephone orders given prompt attention. 35-37
 GREENHOUSES: Morton Grove, Ill. Randolph Street CHICAGO, ILL.

The F. R. WILLIAMS CO.
WHOLESALE FLORISTS.
 Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.
 Telephone Connections. CLEVELAND, OHIO.

Bassett & Washburn
 76 & 78 Wabash Ave., CHICAGO.
 Wholesale Dealers and Growers of **Cut Flowers**
 GREENHOUSES: HINSDALE, ILL.

THE Gardeners' Chronicle.
 A Weekly Illustrated Journal.
 ESTABLISHED 1841.
 The GARDENERS' CHRONICLE has been for over SIXTY YEARS the LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, the information furnished is of such general and permanent value that the GARDENERS' CHRONICLE is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.
 Subscription to the United States, \$4.20 per year. Remittances to be made payable to H. G. COVE.
 OFFICE:—
 41 Wellington St., Covent Garden, London, England.

Wholesale Flower Markets

MILWAUKEE, Nov. 20.

Roses, Beauty, long, per doz.	2.50@3.00
" " med. "	1.00@1.50
" " short "	.50@ .75
" Liberty	6.00@ 8.00
" Bride, Bridesmaid	4.00@ 6.00
" Meteor	4.00@ 6.00
" Golden Gate	4.00@ 6.00
" Perle	2.00@ 5.00
Carnations	1.00@ 3.00
Violets	.75@ 1.00
Chrysanthemums, 1.00@2.50 per doz.	
Adiantum	.75@ 1.00
Smilax	15.00
Asparagus	65.00
Common ferns	.25

PITTSBURG, Nov. 20.

Roses, Beauty, specials	25.00@30.00
" " extras	18.00@20.00
" " No. 1	10.00@15.00
" " No. 2	4.00@ 8.00
" Kaiserin	2.00@ 8.00
" Bride, Bridemaid	2.00@ 8.00
" Meteor	2.00@ 6.00
" Liberty	2.00@10.00
Carnations	1.00@ 2.00
Chrysanthemums	6.00@20.00
Lily of the valley	4.00
Violets	25@ 1.50
Smilax	10.00@15.00
Adiantum	1.00@ 1.50
Asparagus, strings	40.00@75.00
" Sprengeri	2.0.0@ 3.00

CINCINNATI, Nov. 20.

Roses, Beauty	5.00@25.00
" Bride	1.00@ 4.00
" Bridesmaid	1.00@ 4.00
" Meteor	2.00@ 4.00
" Kaiserin	3.00
Carnations	1.00@ 2.00
Chrysanthemums	4.00@15.00
Lily of the valley	3.00@ 4.00
Romans	3.00@ 4.00
Paper Whites	3.00
Asparagus	50.00
Smilax	12.50@15.00
Adiantum	1.00

ST. LOUIS, Nov. 20.

Roses, Beauty, long stem	.35.00@50.00
" Beauty, medium stem	15.00@25.00
" Beauty, short stem	4.00@ 10.00
" Bride, Bridesmaid	3.00@ 8.00
" Golden Gate, Carnot	3.00@ 8.00
" Meteor, Perle	3.00@ 8.00
Carnations	1.50@ 3.00
Chrysanthemums	4.00@25.00
Tuberose	4.00
Lily of the valley	3.00@ 4.00
Smilax	12.50@15.00
Asparagus Sprengeri	1.50
" Plumosus	.75@ 1.00

The Cincinnati Cut Flower Co.,
 437-439 Main St. WHOLESALE FLORISTS.
 CINCINNATI, O.
 Consignments Solicited.
 Special Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.
Michigan Cut Flower Exchange.
 Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around.
 BRONZE GALAX, \$1.00 per thousand.
 26 Miami Ave.. DETROIT, MICH.

H.G. BERNING
Wholesale Florist
 1322 Pine St., ST. LOUIS, MO.

Frank M. Ellis,
WHOLESALE FLORIST,
 1316 Pine Street, ST. LOUIS, MO.
 CONSIGNMENTS SOLICITED.

C. A. KUEHN,
Wholesale Florist,
 1122 PINE STREET,
 ST. LOUIS, MO.
 A complete line of Wire Designs.

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WHOLESALE FLORISTS.
 Pittsburg, Pa.
 Please mention the American Florist when writing.

THE NICKEL PLATE ROAD
 will afford its patrons an opportunity to take advantage of low rates for Christmas and New Year holidays, by selling tickets at a fare and a third for the round trip to all points on their line, December 24, 25, 31, 1902, and January 1, 1903. Return limit including January 2nd, 1903. Through service to New York City, Boston and other eastern points. Chicago passenger station, Harrison St. and 5th Ave. For further information, address John Y. Cahalan, General Agent, 113 Adams St., Chicago. 66

GALAX LEAVES AND Leucothoe Sprays.
 J. G. LOVEN, MONTEZUMA, N. C.
...GEO. M. KELLOGG...
 Largest Grower of... in the West. **Cut Flowers**
 Give us an order and we will please you.
 Our Greenhouses at PLEASANT HILL, MO.
 Our Store, 906 Grand Ave., KANSAS CITY, MO.
 LONG DISTANCE PHONE AT EITHER PLACE.
 ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

For Thanksgiving



WE OFFER a moderate cut of Beauties, fair supplies of Roses in all grades and a plenty of Carnations, all grades and colors. Also Chrysanthemums. Headquarters for choicest goods, Orchids, Valley, Violets. Also all green goods. Adiantum, Asparagus, Smilax. Wild Smilax, none better. If the stock you want is in season, we have it. "Right Goods at Right Prices." Send a postal for our weekly price list.

E. C. AMLING,

THE LARGEST, BEST EQUIPPED AND MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.
32-36 Randolph St. Long Distance Phones 1999 and 1977 Central. CHICAGO, ILL.

Price List for Thanksgiving.

ORCHIDS.	
Cattleyas, per doz.	\$6.00
Cypripediums	2.00
BEAUTIES.	
36-in. stems	5.00
30-in. stems	\$4.00
24-in. stems	3.00
20-in. stems	2.50
16-in. stems	2.00
12-in. stems	1.50
8-in. stems	6-8
Brides and Maids	6.00 to 8.00
Meteors and Gals	6.00 to 8.00
Carnations, select	2.00 to 3.00
faneyes	3.00 to 4.00
Mums, small, per doz.	1.50 to 2.00
large	2.50 to 4.00
Violets, double	1.00 to 1.50
single	.75 to 1.00
Callas, per doz.	1.50
Valley, select	1.00 to 5.00
Asparagus Plumosus, string	.50 to .75
Spranger	per 100 3.00 to 4.00
Ferns, per 1000	\$1.50
Galax	1.00
Lenchothoe	.75
Adiantum	.75 to 1.00
Smilax, per doz.	1.25 to 1.50
per 100	10.00

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

CUT FLOWERS

59 WABASH AVE.

CHICAGO

WIETOR BROS.

Wholesale Growers of **Cut Flowers**

All telegraph and telephone orders given prompt attention.

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PETER REINBERG,

Grower and Wholesaler of Cut Flowers.

600,000 FEET OF GLASS.

Headquarters for American Beauties.

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FRANK GARLAND,

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SPECIAL ATTENTION GIVEN TO HARDY CUT

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Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.

Special attention given to shipping orders. Send for price list of supplies.

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American Florist

when you write to an advertiser.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations
A Specialty.....

WHOLESALE GROWER of

CUT FLOWERS

Benthey & Co.

F. F. BENTHEY, Manager.

Wholesale Commission Florists

Consignments solicited.

31-35 Randolph St., Chicago.

Wholesale Flower Markets

CHICAGO, Nov. 21.

Roses, Beauty, 36-inch stems	4.00
" " 30 " " "	3.00
" " 24 " " "	2.50
" " 20 " " "	2.00
" " 15 " " "	1.50
" " 12 " " "	1.00
" " 6 to 8 " " "	per 100 5.00@ 6.00
" Liberty	5.00@12.00
" La France, Chateauy	5.00@12.00
" Bride, Bridesmaid	4.00@ 8.00
" Meteor, Golden Gate	4.00@ 8.00
" Perle	4.00@ 6.00
Chrysanthemums, per doz.	\$1.00@4.00
Violets	1.00
Carnations	1.00@ 3.00
Lily of the valley	4.00@ 5.00
Asparagus, per string	.50
Adiantum	.75@ 1.00
Common ferns, per 1000	1.50
Smilax, per dozen	1.50

Holton & Hunkel Co.

Wholesale Florists.

457 Milwaukee St., MILWAUKEE, WIS.

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO

Send for weekly price list and special quotations on 1000 lots.

GEO. REINBERG,

Wholesale Grower of **Cut Flowers**

CHOICE AMERICAN BEAUTIES.

We will take care of your orders at reasonable prices. Prompt attention.

51 Wabash Ave., CHICAGO, ILL.

Please mention The American Florist when writing.

The American Florist Company's

DIRECTORY

contains the names and addresses of the Florists, Nurserymen and Seedsmen of the United States and Canada. PRICE, \$2.00.

SAMUEL S. PENNOCK,
Wholesale Florist,
1612-18 LUDLOW ST., PHILADELPHIA, PA.
Open from 7:30 a. m. to 8:00 p. m.

Choice White Orchids
IN QUANTITY.

GEO. A. SUTHERLAND
34 HAWLEY STREET, BOSTON.

Best Boston Flowers
ALL SUPPLIES.
An entire floor Devoted to Stock and Manufacturing.
Write now for quotations on Chrysanthemums and all seasonable stock.
Telephone 1270 Main.

Orders for Cut Flowers of the New White Carnation.

Lillian Pond,

FILLED EVERY DAY. PRICE, \$5.00 per 100.

CITY HALL CUT FLOWER MARKET

WELCH BROS., PROPS.

9 CHAPMAN PLACE, Boston, Mass.
15 PROVINCE STREET.

Henry Reidell & Co.

WHOLESALE

Commission Florists.

34 West 29th Street,
NEW YORK.

Strictly Wholesale. Correspondence invited.

THE NEW YORK CUT FLOWER CO.

55 and 57 West 26th St.,
WHOLESALE FLORISTS,

Daily Reports. Weekly Payments.
TELEPHONES: 2239 Madison Sq. J. A. MILLANG,
2034 Madison Sq. MANAGER.

GEORGE SALTFOORD,

Wholesale Commission Florist,

46 West 29th Street, NEW YORK.

Fair dealing and prompt returns guaranteed.
Correspondence solicited.

Author of "How to Make Money Growing Violets."

N. F. MCCARTHY & CO.

Best Quality

CUT FLOWERS

and Supplies,

Tel. 734 and
64 Main.

84 Hawley St., BOSTON.

Wholesale Flower Markets

BOSTON, Nov. 19.

Roses, Beauty, Edgely, extra	15.00@30.00
" " medium	6.00@12.00
" " culls	1.00@ 4.00
" " Bride, Bridesmaid, Meteor	2.00@ 3.00
" " extra	4.00@ 8.00
" " Kaiserin, Carnot	3.00@ 8.00
Chrysanthemums	4.00@20.00
Carnations	.75@ 1.50
Lily of the valley	2.00@ 4.00
Adiantum	.75@ 1.00
Asparagus	50.00
Smilax	12.50@18.00

PHILADELPHIA, Nov. 19.

Roses, Tea	2.00@ 4.00
" " extra	4.00@ 8.00
" " Beauty, extra	15.00@35.00
" " firsts	8.00@12.00
" " Queen of Edgely, extra	25.00@35.00
" " firsts	10.00@20.00
Carnations	1.50@ 2.50
Chrysanthemums, per doz.	1.50@3.00
Violets	.50@ 1.00
Lily of the valley	3.00@ 5.00
Asparagus	25.00@50.00
Smilax	12.50@15.00
Adiantum Farleyense	10.00

BUFFALO, Nov. 20.

Roses, Beauty	15.00@30.00
" " Bride, Bridesmaid, Meteor	3.00@ 6.00
Carnations	1.50@ 3.00
Chrysanthemums, per doz.	\$2.00@3.00
Lily of the valley	3.00@ 4.00
Smilax	15.00@20.00
Adiantum	1.00@ 1.50

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg. 6th Ave and W. 26th St., New York.

Open for Cut Flower Sales at 6 o'clock
Every Morning.....

DESIRABLE WALL SPACE TO RENT FOR
ADVERTISING.

JOHN DONALDSON, Secretary.

Please mention the American Florist when writing.

Give Us a Trial. We Can Please You.



Roses, Carnations and all kinds of
Seasonable Flowers in stock.

WM. F. KASTING, Wholesale Com-
mission Florist,
481 Washington St., Buffalo, N. Y.
Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

Fancy or Dagger Ferns 75c Per
1,000.

BRONZE OR GREEN GALAX \$1.00 per 1000.
PRINCESS PINE, \$6.00 per 100 lbs. **LAUREL**
FESTOONING, 4c, 5c and 6c per yard. **Princess Pine**
Festooning, all grades. **Pine Wreaths and Laurel**
Wreaths, all grades for Xmas. Be sure and send
your orders in early and you
will get the best to be had.



Millington, Mass.
Tel. office, New Salem

Galax Bronze, \$1.25 per 1000; Green,
\$1.00 per 1000. **Southern Smilax,**
best quality, 50 lb. case \$6.00;
35 lb. case \$4.50; 25 lb. case \$3.75. **Leucothoe**
Sprays, bronze and green, assorted sizes, \$1.00 per
100. **Sphagnum Moss,** \$1.50 per bale. **Palmetto**
Leaves, \$1.50 and \$2.00 per 100.

L. J. KRESHOVER,
110-112 W. 27th Street, NEW YORK CITY.
Telephone call, 597 Madison Square.

The Philadelphia Wholesale Flower Market,

TELEPHONES: KEYSTONE AND BELL. 1224 CHERRY ST., PHILADELPHIA.

Is now Open and Ready for Business. Consignments of good stock solicited, especially VALLEY, VIOLETS AND CARNATIONS. Commission,
10% and \$50 annual stall rent, payable monthly in advance. Flowers, choice of this market, carefully packed and shipped at short notice.

Beauties and Valley Leo. Niessen,

IN QUANTITIES.

On and after Sept. 16th will be open from 7 a. m. till 8 p. m. until further notice.

WHOLESALE FLORIST,
N. W. Cor. 13th and Filbert Sts., Phila.

FLOWERS SHIPPED BY
JOHN I. RAYNOR

ARE THE BEST PRODUCT OF THE BEST GROWERS FOR THE NEW YORK MARKET.

PACKING ALL RIGHT. 49 W. 28th Street, NEW YORK.
 RICES ROMPTNESS Tel. 1998 Madison Square.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.

Are supplying the most superb stock of FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.
 SEND FOR QUOTATIONS.

Walter F. Sheridan,
Wholesale Florist,

Telephone 902 Madison Square.

39 West 28th St., NEW YORK.

Telephones Nos. 2239 and 2034 Madison Square.



MOORE, HENTZ & NASH

Wholesale Commission Florists,

65 and 57 West 26th St., NEW YORK CITY

Adjoining New York Cut Flower Co. salesroom. Finest Salesroom in the Trade. Inspection Invited. All business, selling or shipping, strictly commission.

VIOLETS. WILLIAM GHORMLEY VIOLETS.
Wholesale Commission
 Daily Receiver and Shipper of Fresh Cut Flowers.

Orchids, Roses, Carnations, Valley, Chrysanthemums.

Telephones 2100 and 2200 Madison Square.

57 West 28th Street, NEW YORK CITY.

JOHN YOUNG

Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.
 51 West 28th St., NEW YORK.
 Tel. 1906 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN NEW YORK CITY FOR

Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

WM. H. GUNTHER,
 30 West 29th St., New York.
 Telephone 551 Madison Square.

Frank Millang

Open from 6 a. m. to 5. p. m.

Cut Flower Exchange, 55-57 W. 26th St.
 Phone 299 Madison Square. NEW YORK.

ESTABLISHED 1872.

JOHN J. PERKINS,
COMMISSION FLORIST,

Solicits Consignments or Shipping Orders. Satisfaction given in both.

Tel. 958 Madison Sq. 115 West 30th St., New York.

Bonnot Bros.

WHOLESALE FLORISTS.

55 and 57 W. 26th St. New York.
 Cut Flower Exchange.

OPEN 6:00 A. M.

An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.

Traendly & Schenck

NEW YORK CITY,

38 W. 28th Street, Cut Flower Exchange.
 New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

NEW YORK, Nov. 19.

Roses, Beauty, Edgely, best.....	15.00@33.00
" " medium.....	8.00@15.00
" " inferior.....	1.00@ 5.00
" " Bride, Bridesmaid.....	3.00@ 8.00
" " Liberty, Meteor.....	4.00@ 8.00
Carnations.....	.75@ 2.00
Violets.....	.40@ 1.25
Lily of the valley.....	2.00@ 5.00
Lilies.....	8.00@10.00
Chrysanthemums, medium.....	2.00@ 4.00
" " special.....	6.00@20.00
Cattleyas.....	35.00@50.00
Dendrobium formosum.....	20.00@25.00
Smilax.....	8.00@10.00
Adiantum.....	.50
Adiantum Peter Grove.....	1.25
Asparagus.....	35.00@50.00
" Sprenger, doz. bun.	2.00@3.00

RELIABLE AT ALL SEASONS.

Best Flowers.

REASONABLE PRICES.

J. K. ALLEN

Telephone 167 Madison Square.

OPEN AT 8 A. M. DAILY.

106 W. 28th St., NEW YORK.

FORD BROS.

Receivers and Shippers of

FRESH FLOWERS,

111 West 30th St., NEW YORK.
 Telephone 157 Madison Square.

REPRESENTING EMINENT GROWERS.

Julius Lang

53 West 30th Street, NEW YORK.

COMMISSION DEALER in FLOWERS
 TELEPHONE 280 MADISON SQUARE.

ALEX. J. GUTTMAN,

Wholesale Commission Florist,

A full supply daily of the choicest New York and New Jersey

FLOWERS.

62 W. 29th Street, NEW YORK CITY.
 Telephone 1738 Madison Square.

A. H. LANGJAHR,

Wholesale Commission Florist,

BEST FLOWERS SHIPPED AT LOWEST NEW YORK PRICES.

19 Boerum Place, Brooklyn, N. Y.
 TELEPHONE 939 MAIN.

Hicks & Crawbuck,
WHOLESALE FLORISTS

NEW YORK:
 45 West 29th Street.
 Tel. 2798 Madison Sq.

BROOKLYN, N. Y.:
 108 Livingston Street
 Tel. 3660-3661 Main

EDW. C. HORAN,

55 WEST 28TH STREET,

Telephone 421
 Madison Square.

.....NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres., S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

VISITED BOSTON: J. B. Kidd, of the Cox Seed Co., San Francisco.

ALASKA peas are being offered rather freely at about \$3.25 per bushel.

VISITED CHICAGO: Max Wilhelmi, of F. Barteldes & Co., Lawrence, Kans.; Henry Nungesser, New York; Jesse E. Northrup, Minneapolis.

ALEX. RODGERS, until lately with S. G. Courteen, Milwaukee, is now with J. Charles McCullough, Cincinnati.

LOUIS VALERE LEFEBVRE, the dean of French seedsmen, died October 17. For details of his career see page 621.

VAUGHAN'S SEED STORE, Chicago, received a carload of Japanese lily bulbs this week by way of San Francisco.

VISITED ST. PAUL:—C. R. Kimberly, Lester Morse and W. J. Fosgate, of California, and Henry Nungesser, of New York.

QUEENS, N. Y.—V. H. Hallock was thrown from his buggy in a runaway while driving November 13, breaking his collar bone. He is reported doing well.

LESTER L. MORSE, of Santa Clara, Calif., after short trips to Rockford, Milwaukee, Minneapolis and St. Paul, left Chicago for the east November 18. He will return to California by the southern route in about a month.

WATERLOO, NEB.—One of our correspondents at this point reports that the wet weather has caused delay in drying the corn and if continued may damage some crops seriously. He considers late corn, both field and sweet varieties, in a precarious condition.

THE continued warm, mild weather and lack of frosts is unfavorable for ripening holly foliage into first-class shipping condition. Freezing weather is desirable as holly foliage that has not been sharply frosted is very likely to heat and discolor when packed closely in cases.

The Seed Situation.

Northrup, King & Company, of Minneapolis, write their customers under date of November 15, 1902, as follows:

"We wish to advise our customers of the fact that great shortages exist on many varieties of seeds. This is notably true as respects seed beans, both wax and green pod varieties, sweet corn, both early and late, cucumber, all varieties, peas, nearly all varieties, all varieties of squash, most varieties of tomato, several varieties of turnip, etc.

"Beans are less than one-third of an average crop. Sweet corn is a very light crop indeed, and nearly all sorts, it would seem, will be very high. Cucumber seed is an entire failure; less than five per cent of a crop the country over. Cucumber seed that we were selling in June, July and August at from 25 cents to 40 cents per pound is now selling readily at from \$1.75 to \$2.50 per pound; in other words, it is not a question of price, but of the seed at almost any price.

"The same condition is, to an extent, true of muskmelon, also of some varieties of watermelon. While the crop of onion seed is fair, yet we are anticipating a scarcity of Large Red Wethersfield, and

firm prices on most other sorts. Onion sets are a very good crop, but they are not keeping well. All peas, as above stated, are scarce, but such varieties as American Wonder, Little Gem and Nott's Excelsior, are entirely out of the market,

White Egg turnip, garden varieties, will be held at firm prices.

"There is also a very great shortage on early varieties of field corn, particularly of seed grown in Minnesota and North Dakota, and of varieties which are adapted to those states. Our acreage of these varieties was very much larger than ever before. Our crop was good, but much of it, owing to the very cold and backward season, was damaged by frosts, and the unfavorable drying weather since cutting."

Leonard Wins Insurance Case.

The Supreme Court of the United States yesterday finally disposed of the Leonard Seed Company cases, growing out of the explosion in the seed warehouse in West Lake street in 1899, by denying the writ of certiorari asked by Orient and Phoenix.

There was insurance on the mill to the amount of \$76,500. The companies denied liability on the ground that a part of the building fell before the fire broke out, thereby voiding the policies.

For the assured H. W. Magee and Myron H. Beach contended that the fire was the result of an explosion, and that the insurance companies were liable under the clause providing that they shall not be liable for loss by an explosion unless fire ensues, and then for loss or damage by fire only.

After a time \$50,000 of the insurance was compromised at 65 per cent but six companies fought the cases. They won two victories in the United States Circuit Court, but these were reversed by the United States Circuit Court of Appeals. On retrial the juries found against the insurance companies, the Court of Appeals sustaining the verdict, and now the highest court declines to interfere.—Chicago Tribune, November 18, 1902.



THE LATE LOUIS VALERE LEFEBVRE. (See page 621)

and practically unobtainable at any price.

"All varieties of squash, both summer and winter, were nearly a total failure, with scarcely an exception. Purple Top Strap Leaf, White Top Strap Leaf and

J. C. SCHMIDT
 Erfurt, Germany, Wholesale
Seed Grower & Nurseryman
 Sends to Seedsmen and Florists the New
Trade Seed Catalogue for 1903
 In English language, Free on Application.
 Extensive home culture grounds. Choice Quality.

VAUGHAN'S MUSHROOM SPAWN Mushroom Spawn.
 Fresh importation just received from the most careful English maker. Bricks about 1 lb. each, 100 lbs., \$6.50; 50 lbs., \$3.50; 25 lbs., \$1.85; 10 lbs., \$1; per lb., 15c; if shipped from New York 50c per 100 lbs. less. Always write for the latest market prices on large quantities.
 FRENCH, (Genuine), fresh stock, 2-lb. boxes, 75 cts.; in bulk, per lb. 30 cts.
 REINSON'S MUSHROOM CULTURE 50 cts.
 CHICAGO: 84 Randolph Street. **Vaughan's Seed Store,** NEW YORK: 14 Barclay Street.

OVER 2,000 ACRES IN CULTIVATION.

BRASLAN SEED GROWERS CO.

Growers for the Wholesale Trade Only.

CORRESPONDENCE SOLICITED.

SAN JOSE, CAL.



Receiving and Shipping Seeds. A daily scene after the harvest at the San Jose warehouse of the Braslan Seed Growers Co.

ESTABLISHED 1802

THORBURN'S SEEDS

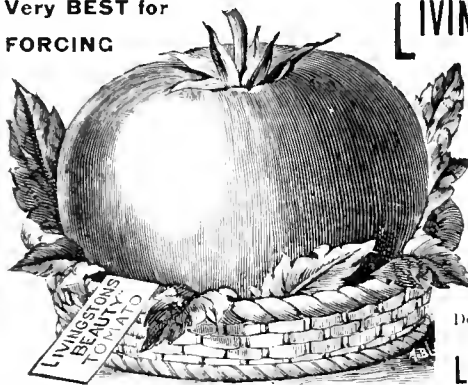
Send for special low prices on
DUTCH HYACINTHS
for forcing or bedding, and
LILIUM LONGIFLORUM.

J. M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

Very BEST for
FORCING



LIVINGSTON'S BEAUTY TOMATO.

Prof. W. J. Green, of the Ohio Experiment Station says:

"I am fully satisfied that Livingston's Beauty Tomato is the most profitable variety of all for growing under glass."

Prof. W. B. Alwood, of the Virginia Experiment Station says:

"Your Beauty Tomato was superb, and as usual, gave us magnificent fruit. We are using it now exclusively for winter forcing."

OUR OWN CHOICEST SELECTED SEED.
Pkt. 10c.; Ounce 25c.; 4 Ounces 75c.

Descriptive Catalogue, also Florists and Market Gardeners' Wholesale List free on application

Livingston Seed Co., Columbus, O.

GLADIOLI OUR MOTTO: QUALITY FIRST.

We have, however, a sufficient quantity to supply all demands. Send for Catalogue.

ARTHUR COWEE,

Berlin, N. Y.

"Meadowvale Farm,"

Long Distance 'Phone 9x.

United States Grower and Representative of GROSS' HYBRIDS.

50,000 DAHLIA Roots

1,000,000 CABBAGE PLANTS ready to plant out or prick in cold frame, only \$2.00 for Nov. or Dec.

Undivided. For want of storage I will sell at \$4 per 100. Florence Vaughan Canna, \$10 per 1000. Fine Tobacco Dust, \$1.00 per 100; \$15.00 per ton.

MARK T. THOMPSON, Rio Vista, Va.

CYCLAMEN

PERSICUM SPLENDENS GIGANTEUM.

Finest strain in the world, ready for immediate shipment, a splendid stock of plants, well budded, from 3-inch pots, \$6.00 per 100; \$50.00 per 1000; from 3½-inch pots, in bud and bloom, \$10.00 per 100; \$90.00 per 1000.

PAUL MAOER, East Stroudsburg, Pa.

Please mention the American Florist when writing.

Strictly New England GROWN SEEDS.

SPECIALTIES - Onion (Southport Globes), Turnip Seed and Sweet Corn, Beet, Parsnip, Carrot, Cabbage. We can answer all questions without finching as to quality and where grown.

The E. B. CLARK CO., Milford, Conn.

Please mention the American Florist when writing.

TO MUSHROOM GROWERS.

For sale, valuable information how to

GROW MUSHROOM SPAWN.

Send for circular.....

J. L. CLOSE, 34 Harvard Street, Battle Creek, Mich.

Please mention the American Florist when writing.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSEYRIMEN.

CHAS. A. IJGENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

C. W. STUART & COMPANY, Newark, N. Y., have moved their offices to the business block recently purchased at Rochester.

GEORGE HUSSMAN, one of the best known pomologists on the Pacific Coast, died at Napa, Cal., recently, aged 75 years.

THE Jewell Nursery Company, Lake City, Minn., has put in a complete printing plant capable of turning out all their work.

J. O. SHARE has established a small nursery at Albert Lea, Minn. The first season's business encourages him to branch out.

THE Council Bluffs Nursery Company, of Council Bluffs, Ia., has been served with notice of action for alleged breach of contract by parties near Waterloo.

Detroit.

CLUB HOLDS A LIVELY SESSION.—LADIES PRESENT.—VISITORS TO CHICAGO SHOW RECOUNT EXPERIENCES.—RETAILERS GIVE EXHIBITIONS.—TRADE SATISFACTORY.—VARIOUS NOTES.

The club meeting Wednesday evening was full of interest and amusement. A big attendance, which included many of the members' wives and lady friends, enjoyed a musical programme provided by the recently appointed entertainment committee. Hugo Schroeter read a paper on his experience in eastern establishments last spring, which was well received. Geo. A. Rackham and Frank Beard gave interesting reports of the Chicago flower show and the large greenhouse establishments of that city and Joliet, which they visited. L. Bomb, who was one of the Detroit visitors there, also gave a report of the trip, which was full of humorous anecdotes. The evening's programme was concluded by an imitation of the Chicago club choir at a banquet as it impressed some of the younger visitors. Professor Taft, of Lansing, addressed the club at the meeting of October 15 on San Jose scale and also gave an interesting review of the State Agricultural College work, with which he is connected.

John Breitmeyer's Sons made their annual fall exhibition of chrysanthemums and orchids at their Miami avenue store four days of last week. A distinguishing feature of the exhibit was an orchid tree of large dimensions. B. Schroeter also made an attractive exhibit of the same flowers, his display of orchids being unique and extensive. J. F. Sullivan, having completed extensive alterations in his store, including a conservatory in the rear, celebrated the event last week with a flower show, including a special display of roses. The weather prevailing was fine, the event well advertised and was visited by over 9,000 persons.

A satisfactory condition of trade prevails, although some apprehension of an over-supply of chrysanthemums was felt just previous to the fall exhibitions of the three local retailers above named, who used several thousand of them. The present warm weather is responsible for a big supply of carnations, but a scarcity is looked for in Thanksgiving week. The crop of roses of the local growers is also

off and they, too, will be scarce, while the crop of chrysanthemums will be well used up. Violets are getting better and more plentiful and meet with good demand.

A party of Detroit florists, with their lady friends, attended a banquet and entertainment at Arbeiter Hall, Wyandotte, on the evening of November 6, given by J. E. Smith, of that place. A most enjoyable evening was spent there.

J. K. Stock is again slowly regaining his health after a long siege of typhoid fever.

Visitor: Geo. A. Heint, Toledo.

J. F. S.

Toronto.

TRADE GOOD.—PASSING OF THE CHRYSANTHEMUM MAKES CALL FOR OTHER STOCK.—NEW MARKET OPENS AUSPICIOUSLY.—VARIOUS LOCAL NOTES.

The chrysanthemum crop is on the wane, most of the better grades having been cut out. White sorts are scarce. Many social functions have called for decorations of merit and large quantities of stock have been used up in this manner. With the passing of the chrysanthemums an extra demand for roses is very noticeable and the supply has shortened considerably. Of Meteor and Liberty the shortage is decided. Some very good Sunrise are the latest addition to the stock. Carnations are both plentiful and good and fill in when roses are scarce. Violets are elegant for this season, plentiful and in good demand. Lily of the valley has been scarce all season. Paper Whites and Romans have appeared on the market. There is a decided shortage of adiantum and asparagus.

The official opening of our new market took place last Saturday and florists have a section to themselves. It is steam heated and well ventilated, a decided improvement over their old stands, where they had the disadvantage of being outside, exposed to every kind of weather. Quite a showing was made at the opening, with a very heavy sale for cut flowers. Several had to re-stock and by evening all were sold out. Among those having stands are Frank Duffort, Manton Bros., E. Hoskins, H. Waters, Harry Endean, R. T. Dean and O. Grainger.

Stock for Christmas seems well advanced. Gloire de Lorraine begonias are even now in full flower and poinsettias well along. Azaleas are well set with buds and Harrisii very forward, with the disease scarcely noticeable.

H. Waters has been bringing in some very fine Princess of Wales violets. This crop has been a failure with him for the past few years.

Arthur Frost is cutting some grand smilax, strings from twelve to fifteen feet long.

C. E. Follet, of Kingston, has assigned. H. G. D.

MONMOUTH, ILL.—Thos. Hewitt gave his sixth annual chrysanthemum show November 4-8 and then, with Miss Hewitt, went to Chicago to see the big exhibition there.

WICHITA, KAN.—F. Kuechenmeister has had such good success this year that after viewing his stock the *Eagle* proudly declares that "the finest chrysanthemums that grow in the world are grown in Wichita."



Almost half a century of fair dealing has given our products that prominence which merit deserves. We still offer everything of the best for

ORCHARD, VINEYARD, LAWN, PARK, STREET, GARDEN & GREENHOUSE.

Correspondence solicited. Catalogue and Trade List free. 49 years, 44 greenhouses, 1000 acres.

THE STORRS & HARRISON CO., Painesville, Ohio.

RAFFIA NATURAL COLORED
VAUGHAN'S SEED STORE,
CHICAGO and NEW YORK.

ALPINE and HERBACEOUS PLANTS.

Finest collection in Europe.
Trade list upon application.

Also a large stock of OVAL-LEAF PRIVET, 1 to 3 feet, bushes and standards.
IVIES, Common and Golden, in pots, f. o. b. Liverpool. Cash with order.

STANSFIELD BROS., Southport, England.

ILEX OPACA HOLLY.

Excellent, well graded and well furnished stock in sizes from 6 inches to 3 feet, at from \$6.00 to \$25.00 per 100. Send for our Trade list.
Pinhurst Nurseries, Pinhurst, N.C.

3,000 CALIFORNIA Privet

12 to 18 inches, branched, strong,
at \$9.00 per 100. Cash.

HENRY EICHHOLZ, Waynesboro, Pa.

Asparagus Plumosus Nanus....

From 5-inch pots, fine, \$3.50 per doz.; \$25.00 per 100.

ASPARAGUS SPRENGERI

good strong, from 5-inch pots, \$1.50 per doz.; \$10.00 per 100.

BEGONIA REX

12 vars., 2-in., 60c per doz.; \$4 per 100.

CENTRAL MICHIGAN NURSERY,
Kalamazoo, Mich.

Send to **THE MOON** Company
For Trees, Shrubs, Vines
Your and Small Fruits.
Descriptive Illustrated Catalogue Free.
THE WM. H. MOON CO.
Morrisville, Pa.

PAEONIAS FOR FALL...

10 distinct, best kinds,
\$10.00 per 100.

Ampelopsis Veitchi, 2 year, strong... \$1.00 per doz.

Clematis Paniculata, 2 year, strong, \$1.00 per doz.

\$7.00 per 100.

Clematis, large flowering, \$2.50 per doz.; \$16 per 100.
F. A. BALLER, Bloomington, Ill.

Please mention the American Florist when writing.

PETER REINBERG

51 Wabash Ave.
CHICAGO, ILL.

Largest Grower of Cut Flowers in the World.

BEAUTIES	Per doz.
Extra select	\$6.00
36-inch stems.....	5.00
30-inch stems.....	4.00
24-inch stems.....	3.00
20-inch stems.....	2.50
15-inch stems.....	2.00
12-inch stems.....	1.50
Short stems.....	1.00
Brides.....	\$6.00 to 8.00 per 100
Maids.....	6.00 to 8.00 per 100
Meteors.....	6.00 to 8.00 per 100
Golden Gate.....	6.00 to 8.00 per 100

Thanksgiving Price List.



SUBJECT TO CHANGE WITHOUT NOTICE.

	Per 100
Chatenay	
Best grade	\$8.00 to 10.00
Good grade.....	4.00 to 6.00
Sunrise.....	4.00 to 8.00
Liberty, long.....	12.00 to 15.00
medium.....	8.00 to 10.00
short.....	4.00 to 6.00
Ivory.....	8.00 to 10.00
Perle.....	4.00 to 8.00
CARNATIONS.....	2.00 to 3.00
Fancy.....	4.00



BURBANK'S Shasta Daisy.

Mailing size plants, \$5.00 per 100; \$40.00 per 1000. 25 at 100 rates, 250 at 1000 rates. Prepaid at above figures. Trade list now ready for 1903.

CALIFORNIA CARNATION CO.
LOOMIS, CAL.. U. S. A.

SPECIAL OFFER FOR SHORT TIME MIXED FERNS

Only to make room, extra fine lot from 2-inch pots, strong and well grown, \$3.00 per 100; \$25 per 1000. All good varieties. Do you want a lot of *Cyrtomium Falcatum* at \$3.50 per 100? **BEARD BROS., 1248 W. Fort St., Detroit, Mich.**

Azaleas at Import Prices

We will supply, as long as stock remains unpotted, Azaleas of the best quality we have ever sent out, stock that we know will give entire satisfaction:

10 to 12-inch crowns, bushy plants.....	\$ 4.50 per dozen; \$ 35.00 per 100
12 to 14-inch crowns, bushy plants.....	6.00 per dozen; 45.00 per 100
14 to 16-inch crowns, bushy plants.....	7.50 per dozen; 55.00 per 100
16 to 18-inch crowns, bushy plants.....	12.00 per dozen; 90.00 per 100
18 to 20-inch crowns, bushy plants.....	25.00 per dozen; 200.00 per 100
20 to 24-inch crowns, bushy plants.....	36.00 per dozen; 300.00 per 100

DEUTZIAS for FORCING

We are again this season offering our usual fine stock of home-grown Deutzias, these plants are grown on light sandy soil and have a mass of working fibrous roots which makes them equal to pot-grown stock and at a much lower cost.

GRACILIS—Suitable for 6 and 7-inch pots, 75c per dozen; \$6.00 per 100

GRACILIS ROSEA—Suitable for 6 and 7-inch pots, \$1.00 per dozen; \$8.00 per 100.

LEMOINEI—Suitable for 6 and 7-inch pots, \$1.00 per dozen; \$8.00 per 100.

HENRY A. DREER, Philadelphia, Pa.

PANSY

GIANT FLOWERING, mixed, \$3.00 per 1000.

VIOLETS

Cuttings from sand, \$1.50 per 100; \$12.50 per 1000. Express prepaid.

LOOMIS FLORAL CO.
LOOMIS, CALIFORNIA.

Geraniums ROOTED CUTTINGS.

S. A. Nutt, La Favorite and M. Bruant, \$1.25 per 100; \$11.00 per 1000.

Perkins, Poitevine, Riccard, Heteranthe, E. G. Hill, etc., \$1.50 per 100; \$12.50 per 1000.

Jean Viaud, \$2.00 per 100. The above all well rooted. Express prepaid in United States.

DesMoines Plant Co.,
513 38th Street, DesMoines, Iowa.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

At New York.

The meeting of the bowlers on the alleys last Monday night gave evidence of an awakening of interest which it is hoped will now continue uninterruptedly through the season. The scores are appended:

Player	1st	2d	3d	4th
Lang	175	159	179	156
Siebrecht	136	143	146	163
Young	139	158	141	101
Sheridan	101	105	103	82
Traendly	112	114	138	156
Shaw	116	138	156	126
Mansfield	144	140	144	150

The Lakeview Trophy.

The accompanying illustration is from a photograph of the sterling silver cup which A. N. Broadhead presented to the Lakeview Rose Gardens Bowling Club. The rose growers and the carnation men organized rival teams last winter and after a sharp contest the rose growers carried off the trophy. Preliminary practice is now being indulged in and it is expected that a tournament for the possession of the cup will be begun on the club's own alleys about January 1, three teams competing.

At Chicago.

The McKellar & Winterson team is beginning to feel itself invincible in the Florists' league. They defeated Vaughan's Seed Store three straight November 18, when the Wholesalers lost two games out of three to the Retailers. E. F. Winterson made 224. Following is the score:

RETAILERS.	1st	2d	3d	T ¹
P. J. Hauswirth	134	152	139	445
Euders	117	124	127	368
Kreitling	121	117	144	382
E. Hauswirth	111	135	135	381
Asmus	138	127	141	406

Total	620	655	709	1984
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WHOLESALEERS.	1st	2d	3d	T ¹
Geo. Scott	136	161	114	411
L. Winterson	108	106	129	343
F. Ewert	116	96	109	321
Nagle	118	102	118	338
Newett	147	116	112	375

Total	625	581	582	1788
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VAUGHAN'S S. S.	1st	2d	3d	T ¹
Bollnow	128	123	148	399
Hunt	123	136	144	403
Wilson	120	112	132	364
J. Roy	13	138	14	325
Henderson	173	16	120	419

Total	674	625	648	1957
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McKELLAR & WINTERSON.	1st	2d	3d	T ¹
Winterson	224	151	161	536
Sterrett	134	122	181	437
McCormick	120	147	120	387
Pruner	146	176	139	461
Balluff	115	140	198	453

Total	739	756	719	2214
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LADIES' GAME.

Player	1st	2d	3d	T ¹
Mrs. Winterson	93	71	57	221
Mrs. Brady	54	59	47	160
Mrs. Asmus	65	51	58	174
Mrs. Kreitling	74	92	103	269
Mrs. Hunt	45	92	54	191
Mrs. Balluff	112	78	75	265
V. Kreitling	141	101	102	344
Mrs. Hauswirth	63	63	98	224
Anna Kreitling	70	80	64	214

WHEELING, W. VA.—John Burke is getting his stock of house plants into shape for a good season's business.

Minneapolis.

CUTS REDUCED BY DARK WEATHER.—PROSPECT OF LIGHT SUPPLIES FOR THANKSGIVING.—PERSONAL AND TRADE NOTES.

Weather conditions have been very poor for the production of cut flowers,



TROPHY OF LAKEVIEW BOWLERS.

the last two weeks being dark and cold. The result is another shortage and the supply for Thanksgiving is likely to be limited. Carnations are plentiful enough to fill orders excepting red, which has

taken the place of white in scarcity. Tea roses are in light supply, with Beauties the same. Violets are of very choice quality but the demand is small and fancy stock can be had at 50 cents per hundred. The Minneapolis Floral Company, Donaldson & Company, E. Nagel & Company, A. Swanson and others have had a very busy week in decorations.

A train from Chicago on the St. Paul R. R., was wrecked at La Crosse one day this week and detained several consignments of cut flowers for eight hours, occasioning much inconvenience.

Frank Kindler, of St. Cloud, was in the city on a short visit this week.

C. F. R.

W. A. HAMMOND,

Richmond, Va.

Wholesale Florist.

Roses, Carnations, Chrysanthemums, Etc.

WHOLESALE

Cut Flowers

Florists' Supplies, Seeds, Etc.

Galax and Leucothoe, Wild Smilax.

Special attention given to shipping orders. Long distance 'Phones, Main 584 and 748.

J. M. McCullough's Sons

316-318 Walnut St., Cincinnati, O.

White Carnations

WILL soon be in demand when 'mums are gone. MURPHY'S WHITE, the coming commercial Carnation, is standing the test on long shipments to Chicago, Buffalo, Pittsburg and St. Louis. It is a bloomer or we could not keep up the supply we have since August 15th to date, and still plenty of buds in sight for the Holidays. You will not make a mistake in stocking up on this variety.

ROOTED CUTTINGS. \$6 per 100; \$50 per 1,000; \$45 per 1,000 in 5,000 lots and \$40 per 1,000 in 10,000 lots.

We are Headquarters for Carnation Blooms in Cincinnati. Try us on a shipment. Write or wire

WM. MURPHY, 130 East Third Street, CINCINNATI, O.

Long Distance Phone 4411 Main.

WHOLESALE CARNATION GROWER.

THANKSGIVING PRICE LIST

Beauties, 36 to 40-inch stems.....	Per Doz. \$5.00 to \$6.00
" 30-inch stems.....	4.00
" 24 ".....	3.00
" 20 ".....	2.50
" 15 ".....	2.00
" 12 ".....	1.50
" Shorts.....	1.00
Per 100.	
Brides and Maids, Specials.....	\$10.00
" Firsts.....	\$6.00 to 8.00
" Seconds.....	1.00 to 5.00
Perles, Firsts.....	6.00 to 8.00
" Seconds.....	3.00 to 1.00
Liberty, Specials.....	12.00 to 15.00
" Firsts.....	8.00 to 10.00
" Seconds.....	1.00 to 6.00
Golden Gate, Firsts.....	8.00 to 10.00
" Seconds.....	1.00 to 6.00
Meteor, Firsts.....	6.00 to 8.00
" Seconds.....	1.00 to 5.00
Mme. Chateauf, Firsts.....	8.00
" Seconds.....	4.00 to 6.00
Sunrise.....	1.00 to 8.00
Ivory, Firsts.....	10.00
" Seconds.....	5.00 to 6.00
Carnations, Fancy.....	4.00 to 5.00
" Selects.....	2.00 to 3.00
Valley.....	3.00 to 5.00
Roman Hyacinths.....	4.00
Narcissus.....	4.00
Violets, extra.....	1.00 to 1.50
" common.....	.75
Harrisii, Callas.....	12.00 to 16.00
Chrysanthemums, Fancy.....	16.00 to 25.00
" Ordinary.....	5.00 to 12.00
White Violets (can supply on two days' notice).....	2.00
Bouvardia.....	3.00
Stevia.....	2.00
Cattleyas, per doz.....	6.00
Cypripediums, per doz.....	3.00
Poinsettias, per doz.....	4.00
Smilax.....	10.00 to 15.00
Adiantum euneatum.....	.75 to 1.25
Asparagus Plumosus, Strings.....	50.00
" Sprays.....	1.00 to 2.50
Asparagus Sprengeri, Sprays.....	1.50 to 3.00
Common Ferns, per 1000.....	1.50 to .20
Galax Leaves, ".....	1.50 to .15

Everything for....

THANKSGIVING

Write us for special list on
Novelties, Supplies, etc.

- Wild Smilax, 25-lb. case, \$3.00
- " " 35-lb. case, 4.00
- " " 50-lb. case, 5.00

RED BERRIES, per box, \$2.00.

GREEN WREATHING, SELECT, per 100 yds. \$3.00.

BOUQUET GREEN, per case, \$5.00.

McKellar & Winterson,
45-47-49 Wabash Ave. CHICAGO.

**BUCKLEY'S
November Special.**

Smilax Do you need Smilax? If so, forward your order at once and we will furnish you extra fine 2 1/4-inch at 50c per 100; \$5 per 1000.

Geraniums The leading and best bedders, Jean Viaud (the pink novelty), \$2.00 per 100. S. A. Nutt (crimson), Alphonse Ricard (scarlet), E. G. Hill, Beate Poitevine (salmon), Mme. Jaulin, \$1.50 per 100; \$14.00 per 1000.

Verbenas Our 20th Century Collection. 25 new mammoth varieties, all labeled, strong plants from 2 1/4-inch, \$1.50 per 100, \$12.50 per 1000.

Asp Sprengeri Strong, 2 1/2-inch, \$2.00 per 100; 3-inch, \$1.25 per 100; \$10.00 per 1000.

Petunias Ten novelties from Dreer's latest sets, strong R. C. \$1.25 per 100.

Feverfew LITTLE GEM, rooted cuttings, 75 cents per 100, 2-in. \$1.25 per 100; 2 1/2-in., \$2.00 per 100.

Marguerites CHRYSANTHEMUM FRUTESCENS, both white and yellow, \$1.00 per 100.

Salvia Two best: St. Louis and Bonfire, 75 cents per 100.

The W. T. Buckley Plant Co., Springfield, Ill.

Please mention the American Florist when writing.

ROBT. CRAIG & SON,
Roses, Palms
and Novelties in Decorative Plants.
Market and 49th Sts., Philadelphia, Pa.
Please mention the American Florist when writing.

Palms, Ficus, Azaleas, Etc.

PALMS.

- KENTIA BELMOREANA, 2 1/2-in. pots, \$6.00 per 100; \$50.00 per 1000.
- KENTIA BELMOREANA, 3-in. pots, \$12.00 per 100; \$100.00 per 1000.
- KENTIA BELMOREANA, 24 to 28 inches, fine bushy plants, \$1.25 each; \$15.00 per doz.
- KENTIA BELMOREANA, 30 to 32 inches, perfect condition, \$1.75 each; \$20 per doz.

CYCAS REVOLUTA, 60c, \$1.00, \$1.25 \$1.50 and \$2.00 each.

AZALEAS, 10 to 12-in. crowns, \$35 per 100.
" 12 to 14-in. crowns, \$45 per 100.
" 14 to 15-in. crowns, \$55 per 100.

FICUS, TRUE BELGIAN VARIETY.
4-in. pots, heavy strong stock, \$25 per 100.
4-in. pots, lighter plants, \$15 per 100.
BOSTON FERNS, 2 1/2-in. pot, \$4.00 per 100.
PRIMULA CHINENSIS, 2 1/2-in. pots, \$2.50 per 100.

The Storrs & Harrison Co.
PAINESVILLE, OHIO.

**CUT RATE ON
GERANIUM CUTTINGS**
Single Grant, 75c per 100.
S. A. Nutt, Double Grant, La Favorite, Bonnot, \$1.00 per 100.
Jaulin, Poitevine, Ricard, Mrs. E. G. Hill, Frances Perkins, \$1.25 per 100. Cash or C. O. D.
GEORGE EMMANS, NEWTON, N. J.
Please mention the American Florist when writing.

**Nephrolepis
Bostoniensis**
2 1/2, 3, 4, 5 and 6-inch, fine plants.
Prices right. Call or write
LUDWIG MOSBAEK, 8500 Anthony Ave.
South Chicago, Ill.
Please mention the American Florist when writing.

Cincinnati.

COOL WEATHER IMPROVES MARKET CONDITIONS.—CARNATIONS NOW THE PRINCIPAL GLUT.—CHANGES IN BUSINESS.—NOTES.

The weather has turned cooler and business has picked up accordingly. It looks as though the glut of flowers is coming to an end and prices are a little steadier than last week. Chrysanthemums are still arriving in quantity and meet with fair sale. Roses have gone up a notch, with just about enough for the orders except Beauties, which are scarce. Lily of the valley has been in good demand and violets also. Romans and Paper Whites are not selling very well. There is enough smilax and adiantum for all orders. Carnations are plentiful and only the best ones sell.

Frank W. Ball has purchased the store of Chas. Jones, at 136 E. Fourth street. Albert Sunderbruch will succeed him as manager of the Cincinnati Cut Flower Company and will conduct the same as a strictly wholesale cut flower commission house, with florists' supplies. He will be assisted by Alex. Osendorp and W. A. Mann.

At a meeting of the schedule committee last Saturday it was decided not to have any show in December or January, but to give a big show of roses and carnations in February.

Julius Baer had the Ernst-Kilgour wedding the past week, which used up about 1,000 yellow chrysanthemums. D.

Columbus, O.

A VARIETY OF TRADE JOTTINGS OF LOCAL INTEREST.—SEASON A PROSPEROUS ONE.

Gus. Drobish, who is one of the best posted men in the state on herbaceous plants, is replenishing his old collection, which has been greatly reduced by heavy demand, with a large importation.

Underwood Brothers are building a new house which, when completed, will be the largest single house in the city.

There was an unusually heavy demand for Dutch bulbs this fall, in a retail way, mostly to be used for bedding.

The first fakir has made his appearance on our busy streets and claims to be doing a large business.

We are now having some heavy fall rains and outside work has stopped for the present. CARL.

ROOTED CUTTINGS OF

ROSES

Now ready. Write us your wants.

BOSTON FERNS, in 2½, 3, 4, 5, 6, 7, 8 and 10-in. **STOCK PLANTS OF CHRYSANTHEMUMS.**

GERANIUMS in 2½-inch pots.

SMILAX, PLUMOSUS and **SPRENGERI.**

CINERARIAS, in 4-in. pots, extra nice plants.

CUT FLOWERS. Roses, Carnations and 'Mums.

Write Geo. A. Kuhl, Pekin Ill.

Please mention the American Florist when writing.

Hardy Ferns...

Everything and anything in Florists' **Hardy Supplies** at lowest prices. Estimates on large orders on application. Prompt delivery.

BOSTON FERN CO., 14 Brattle St., BOSTON, MASS.

Please mention the American Florist when writing.

**Thanksgiving
'Mums, Valley,
Violets.**

Thanksgiving Price List.

SUBJECT TO CHANGE WITHOUT NOTICE.

BEAUTIES	Per doz.		Per 100
24-inch and over billed accordingly.		CARNATIONS	\$1.25 to \$2.00
20-inch stems	\$3.00 to \$3.50	CARNATIONS, fancy...	3.00 to 5.00
15-inch stems	2.00 to 2.50	VIOLETS.....	.75 to 1.50
12-inch stems.....	1.50	VALLEY	3.00 to 5.00
	Per 100	ASPARAGUS.....	.60.00 to 75.00
BRIDES	4.00 to 8.00	ADIANTUM	1.00 to 1.25
BRIDESMAIDS	4.00 to 8.00	SMILAX, per doz	1.25 to 1.75
METEORS	6.00 to 10.00	GALAX, g'n, per 1000, \$1	.20
PERLES	3.00 to 6.00	" " " \$1.50	.20
ROSES, our selection	3.00	FERNS, per 1000, \$1 50	.20
Chrysanthemums	10.00 to 20.00	Asparagus Sprengeri	2.00 to 3.00
		Asparagus Plumosus	2.00 to 3.00
		" " strings	50.00 to 75.00

Kennicott Bros. Co.

Wholesale Commission Florists,

40-42-44 Randolph Street, CHICAGO, ILL.

Please mention the American Florist when writing.

LILLIAN POND

The Largest and Best White.

A pure white flower averaging 3½ inches on long stiff stems. A continuous, free and early variety with a flower perfectly formed and very fragrant.

A Money Maker for You All.

Orders filled strictly in rotation, delivery commences January 1st, 1903.

PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00.

S. J. REUTER, WESTERLY, R. I.

Miss Louise

The Longest Stemmed and Most Fragrant **Faber** Carnation in Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink shade, similar to a well colored Bridesmaid rose and average 3 to 3½ INCHES. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for FEBRUARY delivery from now on.

FICK & FABER, SAN MATEO, CAL.

CHICAGO CARNATION CO.

All honor to Dorner for New Pure Pink Carnation, bought by us and named

FIANCEE

Entered at Chicago Flower Show and

Swept Everything Before It.

Judged as the Finest Carnation in the World.

AWARDED 1st Prize for Best Light Pink.

1st Prize, Silver Cup for Sweep Stakes.

1st Prize, S. A. F. Silver Medal for the best new thing in the Show. It will not be sent out this season.

Since the success of our new varieties at the Flower Shows again this Fall, orders are coming in fast. If you want January delivery, send in your order at once.

	Per 100	1000
HARLOWARDEN, bright crimson	\$12.00	\$100.00
HER MAJESTY, white	10.00	80.00
MARSHALL FIELD, variegated	12.00	100.00

SEND FOR DESCRIPTIVE CIRCULAR.

Chicago Carnation Co., Joliet, Ill.

Fine Grafted **ORANGES** Bearing Sizes.

- 12 inch, bushy, from 4-inch pots..... \$20.00
- 15-18 inch, bushy, from 4-inch pots..... 30.00
- Kin Kans** 10-12 in., bushy, from 4-in. pots 20.00
- 15-18 in., bushy, from 4-in. pots 30.00
- Lemons** 12-15 in., bushy, from 4-in. pots... 20.00
- 18-24 in., bushy, from 4-in. pots 30.00
- Roses** Climbing Clothilde Soupert, strong field-grown. 10.00
- Crimson Rambler, stg. field-grown 7.00
- Clematis Apiifolia** A fine variety, some-what similar to C. Paniculata, but blooms earlier and lasts longer; strong plants from 3-inch pots ... 8.00
(Not less than 40 of a class at 100 rate.)
- Citrus Trifoliata** (Best defensive hedge plant.) Per 1000
- Strong, 2 year old, field-grown..... \$15.00
- Strong, 3 year old, field-grown..... 20.00
- Amoor River Privet** (Better than California Privet.)
- 18-24 inch, branched..... 15.00
- 24-36 inch, branched..... 20.00
- Not less than 400 of a class at these rates.
- Rubbers, Kentias, Phoenix, Latanias, Pandanus, Ornamental trees and Shrubs in large quantities.**

WRITE FOR CATALOGUE.....

P. J. BERCKMANS CO. (Inc.)
FRUITLAND NURSERIES,
Established 1856. AUGUSTA, GA.

HERRON...
Carnation Grower,
OLEAN, N. Y.
Please mention the American Florist when writing.

CARNATIONS!

FINE, LARGE, HEALTHY FIELD-GROWN PLANTS.

	Per 100	Per 1000	Per 100	Per 1000
White Cloud	\$6.00	\$50.00	\$5.00	\$40.00
Norway	6.00	50.00	5.00	45.00
Marquis			5.00	40.00
Guardian Angel			5.00	40.00
Prosperity			5.00	40.00

WIETOR BROS., 51 Wabash Ave., Chicago.

CARNATIONS Routed Cuttings

10,000 Ethel Crocker now ready; just the right thing for growing into plants for next summer's bloom, \$10.00 per 1000.
I will be glad to quote prices on any of the following for January or later delivery. Please state how many of each variety are wanted and when they are to be delivered: Dorothy, Nelson, Cressbrook, Queen Louise, Alba, Lorna, Her Majesty, Apollo, Estelle, Adonis, Morning Glory, Higginbotham, Gaiety, Prosperity and Roosevelt.
After this batch of Crocker are sold I will root it only to order, at same price per 1000, and orders must be placed six weeks before stock is wanted.
ALBERT M. HERR, LANCASTER, PA.
Please mention the American Florist when writing.

All The Best CARNATIONS
The Leading Novelties of 1903.
The Best Varieties of 1902.
All the Standard Varieties.
Order your Routed Cuttings NOW.
GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

FOR SALE Field-Grown Roses.

270 Kaiserin A. V., 230 P. Carnot, 92 Beauty of Stapleford, 92 S. Malmaison, 36 Admiral Dewey, 49 Bessie Brown, 40 Helen Gould, 9 Rosomane Graveraux, 4 Gladys Harkness, 36 Safrano, 50 Sprunt, 196 P. C. Soupert, 84 Pink Soupert, 62 Brabant.
Price 8 cents Cash per Plant for Lot.
ALEX. WALDBART,
Hamilton Ave. and Horton Pl., ST. LOUIS.

Surplus Geraniums.
350 La Favorite 100 Madam Thibaut
160 Jean Vraud 150 Madam Jaulin
100 Richeheu 350 Poitevine
500 Nutt 1200 Heteranthe
75 Lemoine's Camille
2-16 pots \$2.50 per 100; \$20.00 per 1000; 250 at 1000 rates. 200 Le Soleil, \$4.00 per 100. Cash.
These are all fine strong plants.
W. SABRANSKY, KENTON, OHIO.

Pittsburg.

TRADE ON THE INCREASE.—NOTES OF STOCK CONDITIONS.—THE STREET SALESMEN.—FIRE DAMAGE.—CLUB MEETING.—VARIOUS ITEMS OF INTEREST.

Business continues to increase, with sufficient supply of stock, but without surplus. Chrysanthemums are thinning out and may be gone entirely before Thanksgiving day. Harrisii lilies are scarce. Roses are satisfactory in every way. Violets have taken a sudden spurt upward and are greatly improved. Gardenias are fine, orchids a little scarce. Carnations are elegant. Paper White narcissi and Roman hyacinths are good.

A new crop of curbstone florists has loomed up within the last few weeks. They are not generally considered a menace except in one case, where a stand is operated about thirty feet from a leading retail store. There are not more than a dozen of these fakirs in Pittsburg, but it is claimed that they have a buyer in Chicago who consigns his shipment to a distributor here.

The damage caused by fire to the plant of Sidney Gibbs has been estimated at \$5,000. He carried no insurance. Two recently completed houses were entirely destroyed and twenty feet of the ends of five houses. Residence and work rooms also went. He will rebuild at once.

There was a large attendance at the club meeting November 12 and a discussion of chrysanthemums. Exhibits came from Smith & Son, Adrian, Mich.; J. N. May, Summit, N. J.; R. Vincent, Jr., & Son, White Marsh, Md.; F. Burki, Bellevue; Blind Bros., West View, Pa.

Mrs. E. A. Williams effected a notable achievement in her decorations of the Duquesne Gardens, on the occasion of the fiftieth anniversary of the Masons.

Charles Crall, of Washington, Pa., visited the show at Chicago. He states the carnation exhibit, particularly, surpassed anything he had ever seen.

Mr. McClelland, of Castle Shammon, who grew so many fine gladioli last year, has ordered 10,000 bulbs of the standard varieties.

J. B. Murdoch, who visited the show at Philadelphia, was delighted, especially with the chrysanthemum exhibition.

Miss Cecelia Diamond has opened a store at South Fork, Pa. E. L. M.

COLORADO SPRINGS, COLO.—Wm. Clark never had a better showing of chrysanthemums than this year and he had a big attendance when he announced a public exhibition November 8-10. His carnations are also in good shape and other stock doing well.

Chrysanthemums

Large Strong Stock Plants From Bench.

Adrian, 35c each; \$3.00 per dozen. C. Holst, Honesty, Prosperity, Providence, 25c each; \$2.00 per 100. T. Eaton, Orizaba, Mrs. Chamberlain, Maud Dean, Chadwick, Childs, Appleton, Lady Roberts, Liberty, Monrovia, \$1.50 per doz.; \$8.00 per 100. Mrs. E. D. Smith, White Bonnaillon, Bergmann, H. A. Parr, Willowbrook, Oct Sunshine, Merry Monarch, Robt. Halliday, Polly Rose, Bonnaillon, Glory of Pacific, R. H. Pearson, G. S. Kalb, Lady Harriett, Ivory, Adele, The Queen, J. K. Shaw, Mrs. J. Jones, \$1.00 per doz.; \$6 per 100. 6 plants of 1 variety at dozen rates; 25 at 100 rates

H. WEBER & SONS, OAKLAND, MD.

Violets and Hardy Pinks

STRONG FIELD CLUMPS.

California and Single Russian \$3.00 per 100
Admiral Avelon and La France 5.00 per 100
Comet, Souv. de Sale, May, Gertrude,
Earl of Carlisle 6.00 per 100

The Conard & Jones Co., West Grove, Pa.

Lily of the Valley From Cold Storage

It pays to grow Cold Storage Valley for Xmas, New Year and January. They bring flowers and foliage without much trouble and special arrangements. Grow them as cool as possible and without bottom heat. My stock is in excellent condition and will give satisfactory returns.

\$15.00 per 1000; Case of 2,500, \$35.00; per 100, \$1.75.

Headquarters for Finest Cut Valley.

H. N. BRUNS, 1409 W. Madison St., CHICAGO.

ENCHANTRESS

THE GOLD MEDAL WINNER, having defeated all comers at Madison Square Garden and at Kansas City, now reigns supreme.

Having ordered a large quantity, I am still in a position to book orders for February delivery. Don't delay if you want any.

MRS. E. A. NELSON Has proved all we claimed for it—being free and continuous and ahead of its rivals in pink.

Cuttings guaranteed to be absolutely strong and healthy. January and February delivery.

PRICE, \$6 PER 100; \$50 PER 1000.

S. S. SKIDELSKY, 708 N. 16th St., Philadelphia, Pa.

Chrysan- themums

Stock Plants.

Send us a list of your wants.

Prices quoted promptly.

NATHAN SMITH & SON, Adrian, Mich.

STOCK Chrysanthemums, \$6 a 100; 80c a doz. Well furnished with cuttings.

WHITE:—Early, Fitzwygram, Bergmann; **Midseason,** Queen, Robinson, Ivory; **Late,** Jones. **YELLOW:** Early, Willdini; **Late,** Bonnaillon, Wedding. **PINK:** Early, Pacific; **Midseason and late** Morel, Perrin, Maud Dean. Special and scarce kinds:—Chadwick, white; Childs, red; Appleton, yellow, \$8.00 per 100; \$1.25 per dozen.

ROSES, strong forcing stock, 3-in. Brides, Meteors, Golden Gates, \$1 per 10; \$35 per 100. 2-in. Brides and Maids, \$2 per 100. **Choice Asparagus Plumosus** for Christmas, 4-in., fine, \$15 per 100; 5-in., \$25 per 100.

W. H. CULLETT & SONS, LINCOLN, ILL.

Wanted to Buy

Several thousand, one or two year old plants of Kaiserin, Carnot and La France; also quote on rooted cuttings. Early delivery and good stock desirable.

PAUL KREISMANN, 150 Kinzie St., Chicago.

WANTED

Asparagus Plumosus Nanus Seeds

Growers offer us your next picking or part of it. State quantity and price.

Plant Seed Co., St. Louis, Mo.

'MUM

Stock Plants, Extra Fine.

TIMOTHY EATON. GOLDEN WEDDING.
XENO. OCTOBER SUNSHINE,
WHITE JONES. YELLOW JONES,
SNOW QUEEN. COL. APPLETON,
\$8.00 per 100; \$1.50 per doz.

BASSETT & WASHBURN,

76-78 Wabash Avenue, CHICAGO, ILL.

Stock 'Mums.

THREE BEST EARLIES:

MONROVIA, Yellow.

Glory of Pacific Pink.

White POLLY ROSE

Also all other commercial varieties at \$5.00 per 100. Cash please.

Carl Hagenburger, W. Mentor, Ohio.

STOCK Chrysanthemum plants, strong and healthy, full of young growth, of the following varieties: Fitzwygram, white and pink Glory of Pacific; Monrovia and Robt. Halliday, two best early yellows; Kalb, Willowbrook, Bergmann, J. K. Shaw, October Sunshine, Fee du Champsaur, Ivory, Bonnaillon, Col. Appleton, Holst, Evangeline, Viviani-Morel, Chas. Davis, Mongolian Prince, Intensity, H. A. Parr, Mrs. Perrin, E. D. Smith, Ealon, Pennsylvania, Philadelphia, Arab, Adula, Helen Bloodgood, T. L. Park, Chadwick, F. B. Hayes, White Bonnaillon, Yanoma, Riegan, Waller, R. Hooper Pearson, Golden Beauty, Superba, Goldmine, Golden Wedding, Malcolm Lamond, Childs, Mrs. Weeks, etc., 10c each; \$1.00 doz. GUNNAR TEILMANN, Marion, Ind.

Please mention the American Florist when writing.

CONQUERING QUEEN ENCHANTRESS

Best Light Pink Carnation. Here are the Awards:

BOSTON—Silver Medal for meritorious flower.

PHILADELPHIA—Silver medal. First for vase of 50 blooms, any variety not yet disseminated.

CHICAGO—Foley Cup. First for 100 light pink. First for 100 blooms, any variety, any color.

NEW YORK—First for 100 blooms, one variety, seedling, not yet in commerce. First for 100 blooms, one variety, not yet in commerce. First for 50 blooms, any variety, any color.

KANSAS CITY—Gold Medal and first in sweepstakes, winning out over all comers, including Fiancee. First for 100 blooms, flesh or blush color. First for 100 blooms light pink. First for 20 blooms, seedling.

J. D. Thompson Carnation Co.

Eastern Agent: **PETER FISHER, ELLIS, MASS.**

JOLIET, ILL.

PANSIES

Roemer's Superb Prize Pansies.

STRONG, FINE STOCKY PLANTS,

Mixed colors, by mail, 75 cents per 100; \$3.00 per 1000; per 10,000, \$25.00. Large transplanted plants, in bud and bloom, \$1.25 per 100 \$10.00 per 1000.

CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

PANSIES

Finest strain of Giant Mixture from best European growers, strong stock for transplanting in cold frames or houses. Price per 100 by mail, 50c; per 1000 by express, \$2. **ENGLISH DAISY** in colors by mail, per 100, 35c; by express, per 1000, \$2.00. **SWFET WILLIAM** by mail, 50c per 100.

J. P. FRYER, 10211 Union Ave., Chicago, Ill.

PANSY PLANTS IN BLOOM.

Transplanted, strong, stocky, in the very finest varieties and colors that money can buy, \$15.00 per 1000. Put up in baskets containing one dozen, 20 cts. **DAISIES, Double White and Longfellow** same price. Also bedding plants.

LUDWIG MOSBAEK.

85th St., near South Chicago Ave., Chicago.

IMPERIAL PANSY Finest Giant Flower in all shades and colors, separate or mixed, \$4.00 per 1000.

GINERARIA nana hyb. gigantea, Benary, Cannell and Sutton's strains, all giant flowered and dwarf or semi-high, the finest in market, 2 1/4-in., \$2 per 100. Cash please.

Shellroad Greenhouses, Crango, Baltimore, Md. Please mention the American Florist when writing.

THE KINNEY PUMP.

For applying liquid manure it has no equal. Sent prepaid for \$2.00.

THE HOSE CONNECTION CO., Kingston, R. I.

FIELD-GROWN Carnation Plants

Potted and grown in 4-inch pots and just right to plant where your chrysanthemums have been.

JOOST, ELDORADO, PORTIA,

JUBILEE, IRENE, MACEO,

GENEVIEVE LORD, MRS. BERTRAM LIPPINCOTT, MARQUIS,

Price, \$4.00 per 100.

J. L. DILLON, BLOOMSBURG, PA.

20,000 Mrs. Fisher CARNATION

for summer blooming; rooted cuttings or 2-inch pots. Write

GEO. A. KUHL, PEKIN, ILL.

Pansy Plants.

MME. PERRET, the finest strain on the market, large plants that will bloom soon at 50c per 100; \$3.50 per 1000; 3,000 for \$10.00.

J. C. SCHMIDT, BRISTOL, PA.

Pansies Worth Raising.

Strong plants, \$4.00 per 1000; \$2.50 per 500; \$1.00 per 100, f. o. b. express here. Cash with order.

CHR. SOLTAU, 199 GRANT AVENUE, JERSEY CITY, N. J.

Catalogue Illustrations.

We sell Electros of the fine illustrations used in the AMERICAN FLORIST at 15c per square inch. Send list of your needs to.....

The American Florist Co., Chicago.

ROOTED CARNATIONS Ready

	Per doz.	100	1000
Gov. Wolcott, white, 1902.....	\$.60	\$4.00	\$35.00
Alba, white, 1902.....	.60	4.00	35.00
Golden Beauty, yellow, 1902....	.60	4.00	35.00
Violanita, variegated, 1902.....	1.25	9.00	75.00
Mrs. Palmer, scarlet.....	.60	4.00	35.00
Mrs. Higinbotham, light pink....	.60	4.00	35.00
Apollo, scarlet.....	.60	4.00	35.00
Selia, Dorner's variegated.....	.60	4.00	35.00
Dorothy, pink.....	.50	3.00	25.00
Gov. Roosevelt, maroon.....	.35	2.50	20.00
Norway, white.....	.30	2.00	15.00
Lorna, white.....	.30	2.00	15.00
Gold Nugget, yellow.....	.30	2.00	15.00
Eldorado, yellow.....	.15	1.00	10.00
Gen. Maceo, maroon.....	.15	1.00	10.00

Unrooted cuttings at one-half price. Asparagus Sprengeri from flats \$1.00 per 100; \$7.50 per 1000. 25 at 100 rates; 250 at 1000 rates. Cash with order. Express prepaid.

WESTERN CARNATION CO., LOOMIS, CAL.

MUST BE SOLD.

Per 100
5000 CALIFORNIA VIOLET CLUMPS, fine.....\$3.00
5000 SPIRAEA ANTHONY WATERER, 2 feet, 2 year, old, for Easter forcing..... 7.00
VINCA MAJOR VAR and TRITOMA UVARIA, strong, field plants..... 5.00
BOSTON FERN, from bench, fit for 5-in. pots, 12c.
SEND FOR LIST. Cash please.

BENJAMIN CONNELL, West Grove, Pa.

PANSIES The Jennings Strain.

Small plants, \$4.00 per 1000; by express, Large plants, ready to bloom, \$1.00 per 100; \$8.00 per 1000. Seed, \$1 pkt.; \$5 per oz. Cash with order. **E. B. JENNINGS, Lock Box 254, Southport, Conn.** Grower of the Finest Pansies.

Please mention the American Florist when writing.

Worcester, Mass.

SOCIAL AFFAIRS KEEP FLORISTS BUSY.—STOCK WELL CLEANED UP.—CHANGES IN BUSINESS.—EIGHT RETAIL STORES ON ONE STREET.

Coming out receptions, balls, teas and the various functions at which society disports itself have kept us busy and have kept the supply of flowers down to a good working basis. Chrysanthemums are still plentiful and seem to have kept their place in favor. Eaton, Chadwick, Appleton, Maud Dean and Rieman are the best of the varieties now coming in. Roses are good and the supply is about equal to the demand. Much the same may be said of carnations. Violets are also plentiful, both single and double, and are selling well. Harrisii from cold storage are now blooming profusely and holding their own against the chrysanthemums.

This week has seen quite a change in the flower shops. Sargent has gone out of business and has sold his fixtures to C. D. Thayer, who has opened a store at 368 Main street in charge of Mr. Sargent. Fisher has opened a small branch store at 219 Main street, making a total of eight florists on the street.

Lange has a house of bouvardia just coming in and is cutting some fine mignonette. A. H. L.

MANCHESTER, MASS.—The North Shore Horticultural Society held its annual chrysanthemum show on Tuesday, November 11, at Lee's Hall. The show was excellent and the attendance large.

ST. PAUL, MINN.—Mr. and Mrs. A. H. Bunde, A. S. Swanson and Frank Gustafson were visitors at Chicago last week. They report a grand show and a good time. Geo. F. Struck, representing Lager & Hurrell, was a recent caller, having come up from Chicago to see his old tutor Mr. Whatton, now with Dr. R. Schiffmann, the local orchidist.

Aster Seed

We offer Seed from selected flowers of the following varieties of our own growing:

Vick's Branching

- Vick's Daybreak
- Vick's Purity
- Vick's Lavender Comet
- Vick's Snowdrift
- Giant Comet
- Queen of the Earlies
- (Early Market)

Write for Special Prices

JAMES VICK'S SONS
ROCHESTER, NEW YORK

NAMED Hyacinths

SURPLUS STOCK.

La Grandesse, Gigantea, Gertrude, King of the Blues, \$3.50 per 100; \$30.00 per 1000.

D. LANDRETH & SONS
1217 Market St., Philadelphia, Pa.

Hardy Herbaceous Plants.

Japanese Iris, German Iris and Paeonias, Specialties.

Golden Glow, Eulalias, Day Lilies, Hardy Sunflowers, Dragon's Head, Cone Flowers, Boltonias, Sedums and a long list of other valuable kinds in large supply. Please write for lists of varieties and prices; they will probably surprise you.

J. T. Lovett, Little Silver, N. J.

Boston Ferns,

2, 3, 5-inch.

CHRYSANTHEMUMS,

Stock Plants.

ALL THE STANDARD VARIETIES.

For Prices on above Write

Geo. L. Miller, Newark, Ohio.

Primroses

Per 100
CHINESE, single, mixed, 2 1/4-in. pots..... \$1.50
ASP. PLUMOSUS, 2 1/4-inch pots. 3.00
GERANIUMS, 10 varieties, 2-inch pots 2.50
PANSY PLANTS \$2.50 per 1000.
CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

The COTTAGE GARDENS,

QUEENS, L. I.

SEND FOR PRICE LIST OF

Paeonias, Herbaceous Plants, Phlox, Azaleas, Specimen Trees and Shrubs.

Please mention the American Florist when writing.

Ericas, Palms

Flowering Plants and Bay Trees.

Cut blooms of LILY OF THE VALLEY at all seasons, \$3 and \$4.00 per 100.
Write for my Wholesale Catalogue.

ANTON SCHULTHEIS, Collegetown, N. Y.

The New Fern

"ANNA FOSTER"

Unqualified success, greatly admired, small plants, \$25 per 100. Large plants, cut from bench, \$50, \$75, \$100 per 100. Pot plants, 5-inch, \$1.00; 6-inch, \$1.50 each. KENT PALMS, \$50, \$75, \$100 per 100. RUBBER, 5-inch, 18 inches, \$4 per doz. L. H. FOSTER, 45 King St., Dorchester, Mass.

BEGONIA GLOIRE DE LORRAINE,

Begonia Light Pink Lorraine,

For July and Later Delivery, \$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near Chestnut Hill, Pa.

Please mention the American Florist when writing.

FINE STOCK OF FERNS and MOSSES

Hard, Well Grown and Full Plants.

10 BEST VARIETIES FOR JARDINIERS.

100
2 1/2-inch pots \$3.00
3 1/2-inch pots 6.00
4 1/2-inch pots 8.00
5-inch pots 20.00
ALSO PHILA AUSTRALIS (Tree Fern), 2 1/2-inch 4.00
" " " 3 1/2-inch 8.00
" " " 3 1/2-inch 5.00
LOMARIA GIBBA " fine specimens in 8-inch
BOSTON FERNS, pans, \$9.00 per doz.

JOHN H. LEY, GOODHOPE, Washington, D. C.

ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong, 2 1/2-inch, \$3.50 per 100.
SPRENGER, stroog, 2 1/2-inch, \$2.50 per 100.

BOSTON FERNS.

From bench fit for 3, 4, 5, 6, 7 and 8-in., 2 1/2c, 5c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA

Extra fine, 4 to 7-inch pots, only 12c per leaf.

25 FINE RUBBER PLANTS, 3 feet, \$1 each, or the lot for \$20.00. CASH PLEASE.

A. J. BALDWIN, NEWARK, OHIO.

Orchids!

Just arrived in perfect condition,

LAELIA ELEGANS

and Cattleya Intermedia. Write for particulars.

Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

VIOLETS Lady Campbell and Swanley White, 3-in. pots, \$30.00 per 1000.

Chrysanthemum stock J. S. Kalb, Bonnafoo, Ivory, White and Yellow Robinson and Col Appleton, at \$6.00 per 100.

Carnations sold except Daybreak, White Daybreak, Mme. Chapman and Guardian Angel.

CRABB & HUNTER, GRAND RAPIDS, MICH.

The Art ...of Floral Arrangement

The only special newspaper in the world for floral arrangement.

200 ILLUSTRATIONS ANNUALLY.

Specimen number free.
Subscription, \$2.40 yearly.

BINDEKUNST-VERLAG
J. OLBERTZ, ERFURT, GERMANY.



HOLLY and ..GREEN

VAUGHAN'S XXX HOLLY.

We maintain the highest grade Holly Branches in the market. Every case personally inspected by our own representatives; men who gather and pack our Holly are well experienced. While other shippers sometimes handle as choice Holly as Vaughan's XXX Brand, yet ours has averaged **THE BEST** one year with another. Our price is about the same, while our values are more than **DOUBLE**. Per Case, \$5.00. For larger lots write. Burlap lined, for Pacific Coast shipments, 50 cents extra.



VAUGHAN'S BOUQUET GREEN AND WREATHING.

We are pioneer headquarters on this stock, controlling same from reliable first hands of long experience. We can save you money. Our stock this season, while in moderate supply only, is from best sources, largely Indian picked and all late picked, avoiding the warm drying weather in October. Write for prices when you are ready to buy. **PER 100 POUND CRATE, \$4.50 TO \$5.50.**

Wreathing.

Beginning about December 1, we carry two grades regularly in stock in large lots, and will make closest prices in 20 yard coils. **Per 100 yds., \$3.00 to \$5.00.**

Vaughan's Seed Store, NEW YORK. CHICAGO.

Cyclamens IN BUD and BLOOM....

See what others say of my Cyclamens: "The Cyclamens came through in splendid condition, in fact better than any we have ever received. Very respectfully, Mrs. EDGAR HALL, Austin, Texas." Five days on the road and in splendid condition; so is all my other stock. X 4-in., \$10 and \$12 per 100; 5-in., \$18 and \$25. PRIMROSES, in bud and bloom, 4-in., \$8. CINERARIAS, frame grown, fine stock, 3-in., \$5. Field-Grown ASPARAGUS SPRENGERI, \$3, \$5 and \$7 per 100. CHRIST WINTERICH, Defiance, O.

BOUQUET GREEN

Best quality at lowest rates. We gather our own GREENS and bring by our own boat direct. Also CHRISTMAS TREES. Northern Michigan Evergreen Nursery, SCHOONER TRUMAN MOSS, S. W. Cor. Clark St. H. Schuenemann, Capt. Bridge, CHICAGO.

W. Z. PURNELL, Dealer in

Green Sheet Moss, \$1.50 per bbl.; 5 bbls., \$6.25
Green Laurel, 2x2x4 ft. case, \$3.00; 5 cases, \$12.50
Long Needle Pines, 2x2x4 ft. case, \$1.50
Holly, select, 3 and 4 ft. branches, case, \$4.00
Mistletoe, on branches, bbl., \$5.00
Cash or satisfactory reference from unknown parties.

SNOW HILL, MD.

ASPARGUS PLUMOSUS

4-inch, \$10.00 per 100; 3-inch, \$6.00 per 100.
H. HILLS, Euhart, Ind.

REDUCED RATES FOR CHRISTMAS AND NEW YEAR HOLIDAYS.

The Nickel Plate Road will sell tickets December 24, 25 and 31, 1902, and January 1st, 1903, at rate of a fare and a third for the round trip, to any point located in Central Passenger Association territory, good returning to and including January 2nd, 1903. Pullman service on all trains. Individual Club Meals, ranging in price from 35c to \$1.00, served in dining cars. Address John Y. Calahan, General Agent, 113 Adams St., Chicago, for particulars. Chicago city ticket office, 141 Adams St; Depot, Harrison St. and 5th Ave.

Mistletoe

Strictly Fancy, Well Berried North Carolina Mistletoe.

\$2.60 per bushel case; two cases, \$5.00. P. O. B. any express point east Mississippi river; Canadian points, \$2.75. Orders must be received not later than Dec. 5. Cash with order. Remit by express or P. O. Money Order or certified check.

PARKSLEY NATIONAL BANK,
Parksley, Va., Nov. 10, 1902.

The undersigned has known P. C. Squires for a long term of years and he is in every way a thoroughly reliable man. Very sincerely,
L. L. DERICKSON, Pres.

P. C. SQUIRES, Elizabeth City, N. C.



Order Direct From Headquarters.

New Crop of Bronze and Green

GALAX

\$1.00 per 1000 in 5000 lots. A No. 1 quality.

Dagger and Fancy Ferns, \$1.00 per 1000. A 1 quality.

Laurel Festooning, good and full, 5 and 6c a yd. Princess Festooning, made round, 5 and 6c yd. Laurel Wreathes, made good and full at market prices.

Southern Smilax, \$4.00 and \$7.00 per case. Selected stock.

Sphagnum Moss, 50c per bag; \$1.00 a barrel. All orders by mail, telephone or telegraph will receive our personal attention and prompt delivery. Telephone long distance 2618 Main.

HENRY M. ROBINSON & CO.
32-34-36 Court Sq., Boston, Mass.

Galax AND Leucothoes.

Selected, Bright and Brilliant.
Wholesale Trade Solicited.....

J. L. BANNER & CO., Montezuma, N. C.

L. B. BRAGUE,

Hinsdale, Mass.



WHOLESALE DEALER IN
Christmas Trees
AND
Baled Spruce
FOR CEMETERY USE.

Special attention paid to furnishing in car-load lots. Write for price list and terms.

ALSO WHOLESALE DEALER IN
EVERGREENS, CUT FERNS,
SPHAGNUM MOSS, Etc., Etc.
FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)
Write, Wire or Phone the Introducers,
Caldwell The Woodsman Co., Evergreen, Ala.
or their agents: L. J. Kreshover, New York; J. B. Deamud, Chicago; H. Bayersdorfer & Co., Philadelphia; W. E. Kasting, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.

M. L. Henderson

OF LAURELBRANCH, N. C.

is located in the mountains of North Carolina, where as fine a galax leaf grows as grows in the world (green or bronze). Price given on application. Wholesale trade solicited.

STOCK 'MUMS White and Yellow Bon-naffon, White and Yellow Jones, Eaton, Dean, Pacific, Lager, Robinson, Ivory, Morel, 4c. each. Cash. Satisfaction guaranteed.
CARLSTADT GREENHOUSES, Carlstadt, N. J.

Albany, N. Y.

SOCIAL ACTIVITIES SERVE TO SUPPLEMENT GOOD TRANSIENT TRADE.—NUMEROUS LARGE DECORATIONS REQUIRED.—NOTES OF THE WORK.

The trade reports that business is steadily improving and the outlook for the winter most promising. Whittle Brothers early this week had two notable contracts for dinner decorations. Both were held in the Hotel Ten Eyck, the first on Sunday afternoon, November 16, when Bishop Burke, of the diocese of Albany, entertained Archbishop Farley, of New York, and about 260 priests. The tables, twelve in number, were decorated with smilax, maidenhair fern and Lincoln and Red Warrior chrysanthemums. The same firm on the following Monday evening had the decorations for the dinner given by the Delta Phi fraternity in honor of its seventy-fifth anniversary. Yellow and white chrysanthemums, Boston ferns and smilax comprised the decorations.

H. G. Eyres on Wednesday, November 12, had a large wedding decoration in St. John's church, Troy, the occasion being the wedding of Prof. Palmer C. Ricketts, director of the Rensselaer Polytechnic Institute, and Miss U. J. Renshaw, of Baltimore. Southern smilax, kentias and arecas were used at the church, while at the home of the bride's brother, where a reception was held after the ceremony, southern smilax was used to drape the doors and Black Hawk and Vivand-Morel chrysanthemums were used for room decorations. Eyres also had the decorations for the farewell dinner given by Prof. Ricketts at the Troy Club on Monday evening, November 10. American Beauty roses were used extensively.

W. C. King & Company had two decorations on Thursday of this week, one for a debutante on Madison avenue and the other in honor of the opening of a new club house in Pine Hills. Southern smilax, ferns, fine kentias and latanias, and La France roses were used in both instances. R. D.

Mushroom Spawn



Frequent importations from England. Always fresh and lively.

CARNATIONS

Strong, healthy plants, grown on high land.
 Portia.....\$4.00 \$35.00 Eldorado....\$4.00 \$35.00
 Scott.....4.00 35.00 Daybreak... 4.00

J. J. Styer, Concordville, Pa.

VINCA VAR.

Strong field plants, \$3.00; rooted runners, 5c per 100.

BEGONIA REX, 4-inch, 8c; 3-inch, 5c.
 HYDRANGEA OTKASA, field-grown, large enough for 6-in. or 8 in. pots, 10c; large enough for 15-in. tubs 50c. Cash or C. O. D.

Ivy Leaves, 40c per 100. Cash prepaid.
 H. DANN & SON, Westfield, N. Y.

PRIMROSES.

Improved Chinese. Finest large flowering fringed varieties grown. Single and double, ready for 3-inch pots, \$2.00 per 100. Cash. Enough extras will be added to every order to pay express.
 JOHN F. RUPP, SHIREMANSTOWN, PA.
 The Home of Primroses.



BOSTON FERNS 5-in. pots, \$3.00 per doz.
 6-in. pots, 5.00 per doz.
 6-in. strong 6.00 per doz.
 7-in. pots, 7.20 per doz.

ASPARAGUS PLUMOSUS NANUS,
 4-in. pots, fine plants, \$1.50 per doz.
 4-in. pots, extra select, \$2.00 per doz.

FERN BALLS furnished with leaves, \$5.00 per doz.

FERNS FOR DISHES
 2-in. pots, good varieties, assorted, \$3.00 per 100.

WRITE FOR LIST.

The GEO. WITTBOLD CO.,
 1657 Buckingham Place, Chicago.

\$2.50 PER 1000. This offer good 2 weeks only; to make room for driveway; bargain.

GIANT PANSIES. fine stocky plants, in variety equal to any.

REX BEGONIAS. 15 varieties, fine, 2-inch, \$3.50 per 100.

REX BEGONIAS. rooted cuttings, \$1 per 100.

DOUBLE DAISIES—Snowball, Giant, Long-fellow.

FORGET-ME-NOTS, in mixture.

☞ Satisfaction guaranteed. CASH.

BYER BROS., Chambersburg, Pa.

B. & A. SPECIALTIES

AZALEAS, all sizes and varieties.

KENTIAS, 2-inch pots to 10 ft. specimens.

DUTCH, FRENCH, CHINESE and JAPANESE BULBS in all varieties and at reasonable prices.

ASK FOR FALL CATALOGUE.

BOBBINK & ATKINS, Rutherford, N. J.

500,000 VERBENAS THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 60c per 100; \$5 per 1000; \$45 per 10,000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, BLOOMSBURG, PA.

Ficus Elastica

Latania Borbonica and Kentias 3 and 4-in. pots

I have a fine stock of the above which is offered to the trade at a bargain. If you have room a large profit can be made on these plants in a short time. Write for prices; they are too low to quote here. **W. W. COLES, KOKOMO, IND.**

FERNS.

2 1/2-inch Mixed Ferns.....\$3.00 per 100 Cash
 2 1/2-inch Dracena Indivisa..... 3.00 per 100 or
 25 Mixed Ferns, prepaid..... 1.00 C.O.D.

WM. A. CLARK & SON 44 Boyd Street, Watertown, N. Y.

ASPARAGUS SPRENGERI.

3-inch pots, nice plants,
 \$4.50 per hundred. ✿ ✿

J. B. HEISS, THE EXOTIC NURSERIES, DAYTON, OHIO.

SPECIALTIES

ROSES, from 3-inch pots. **In Best**
CARNATIONS, for all delivery, **Varieties**
CHRYSANTHEMUMS,
SMILAX, VIOLETS.

Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.

ARAUCARIA EXCELSA

We have the largest stock of in the country, May importation, raised from top cuttings only.

2200 must be sold by Xmas to make room for Easter plants.

5 1/2-inch pots, 12 to 14 inches.....60 to .75
 6-inch pots, 15 to 18 inches.....75 to 1.00
 Specimen..... 1.25

KENTIA FORSTERIANA and BELMOREANA,
 5 1/2 to 6-in. pots, 25 to 30 inches high, 75 to 1.50

FICUS ELASTICA, 5 1/2 to 6-in., 18 to 24 inches high, from \$4.00 to \$5.00 per doz.

BOSTON FERNS, 6-inch pots..... .40
 Cash with order please. To save express mention if pots to be taken off.

A BIG MISTAKE you make if you try another Firm, because we are specialists and are large importers and carry strictly the largest and cheapest stock of Araucaria Excelsa.

GODFREY ASCHMANN,
 WHOLESALE GROWER and IMPORTER
 OF POT PLANTS,
 1012 Ontario Street, PHILADELPHIA, PA.

GERANIUMS Rooted Cuttings

A surplus of Heteranthe, double scarlet, and Buchner, double white, \$1.25 per 100; \$10 per 1000.

Jean Vland, the best pink bedder, and Castellane, the best red bedder, a big lot ready, at \$2.00 per 100, or \$15.00 per 1000.

Perkins, Poitevine, Landry and Riccard, at \$2.00 per 100, or \$15.00 per 1000. (Dec. delivery.)

S. A. Nutt, at \$1.25 per 100, or \$10.00 per 1000. (Dec. delivery.)

Bonnot, Castris, Acteon, Harrison, Jaulin, La Favorite and La Pilot, ready now, by the 100 only, at \$1.50 per 100.

ALBERT M. HERR, LANCASTER, PA.
 Please mention The American Florist when writing.



AZALEAS.

All the best sorts, such as Bernard Andrea Alba, Deutsche Perle, Vervaeana, Simon Mardner, Mme. Van der Cruyssen, Virginiana, Empress of India, and many others.

PRICE IN ASSORTED LOTS, FOR EARLY ORDERS:

10 to 12-inch crowns, bushy plants.....	\$40.00 per 100
12 to 14-inch crowns, bushy plants.....	50.00 per 100
14 to 16-inch crowns, bushy plants.....	60.00 per 100
16 to 18-inch crowns, bushy plants.....	\$12.00 per doz.
18 to 20-inch crowns, bushy plants.....	25.00 per doz.
20 to 22-inch crowns, bushy plants.....	30.00 per doz.
22 to 24-inch crowns, bushy plants.....	36.00 per doz.

We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

BOSTON FERNS.

Extra choice lot of compact, bushy, pot-grown plants.

2 1/2-inch pots.....	\$5.00 per 100	5-inch pans.....	\$40.00 per 100
3-inch pots.....	10.00 per 100	6-inch pans.....	9.00 per doz.
4-inch pots.....	25.00 per 100	7-inch pans.....	12.00 per doz.

Stock Chrysanthemums Plants

STOCK PLANTS FROM BENCH AND FROM 6-INCH POTS.

STANDARD VARIETIES.

Per Dozen, \$3.00.

Gold Mine.
Marian Newell.
Omega.
Opah.
Polar Queen.
Yaariva.

Chito.
Geo. W. Childs.
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Per Dozen, \$1.50; per 100, \$10.00.

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Anemone and Pompon Varieties.

Per Dozen, \$3.00.
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VAUGHAN'S SEED STORE, 14 Barclay Street, New York. 84-86 Randolph St., Chicago.

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A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
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VINCA VAR., 3-inch, \$4.00 per 100.
Chinese Primrose, 3-in., \$5; 4-inch, \$8 per 100
Cash or C. O. D.

GEORGE EMMANS, NEWTON, N. J.

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GROWER ARECA LUTESCENS, KENTIA BELMOREANA, COCOS WEDDELIANA.

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for making LIQUID COMPOST. Dry powders all soluble in water. Composts cost less than 1/2c per gal. Correspondence invited.

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10,000, \$1.50; 50,000, \$6.25. Manufactured by **W. J. COWEE, BERLIN, N. Y.** Sample Free. For sale by dealers.



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150 Plates and nearly 300 varieties for \$3.50 or three for \$10.00.

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Fumigating Kind Tobacco Powder

KILLS ALL APHIS IN ONE NIGHT in a house 100x25 ft. at a cost of 10c. A 5 lb. trial pkg. will cost nothing if you will pay the express charges on it. Our booklet tells of it. Write Dept. C for it. **The H. A. STOOHOFF COMPANY 116, 117, 118 West St., N. Y. City**

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FOR CROWING SMALL PLANTS.

TWO SIZES. No. 1. 11 1/4 x 12 1/2 and 11 inches high. No. 2. 15 x 16 1/2 and 15 1/4 inches high. Are folded up in compact package of about one cubic foot; weight about 18 pounds.

SMALL OR NO. 1 SIZE.		LARGE OR NO. 2 SIZE.	
1 house.....	\$ 4.50	1 house.....	\$ 6.50
2 houses.....	8.50	2 houses.....	12.50
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The Florists' Hail Asso'n Pays Losses Promptly.

Reserve fund \$10,000. For particulars address **JOHN G. ESLER, SADDLE RIVER, N. J.**

FOR THANKSGIVING DAY

the Nickel Plate Road will sell tickets within distances of 150 miles, November 26th and 27th, at rate of a fare and a third for the round trip. Tickets good returning until November 28th, inclusive. This road has three express trains daily to Ft. Wayne, Cleveland, Erie, Buffalo, New York and Boston, with vestibuled sleeping cars. Also excellent dining car service, meals being served on Individual Club Plan, ranging in price from 35c to \$1.00; also a la carte. For reservation in sleeping car or other information, address John Y. Calahan, General Agent, 113 Adams St., Room 298, Chicago. City Ticket Office, 111 Adams St. Phone Central 2057. 60.

Springfield.

TRADE GOOD AND STOCK IN FAIR SUPPLY.—
VIOLETS SUFFER FROM DISEASE.—
PERSONAL AND TRADE NOTES.

Business, like the weather, has been good the past two weeks, there being quite a call for funeral work in and out of the city, which has kept stock well cleaned up. Roses, carnations, chrysanthemums and valley are plentiful, but good double violets are scarce owing to the disease which is causing lots of trouble to the New Haven growers, from whom this city gets most of its supply. Home grown stock of chrysanthemums is about used up and store men are looking to other sources.

Springfield is to have some city greenhouses, for which the contract was given to one of our leading builders some months ago.

Outdoor planting of tulips is about finished and, judging from reports, is on the increase.

G. Whitehead, of Greens Farm, Conn., made us a short visit and reports business good. A. B.

Louisville, Ky.

Jacob Schulz has been visiting in Chicago and was much impressed by the wonderful strides made by the growers there.

Mr. Hitz, of Madison, Ind., and H. G. Walker, of Louisville, were the judges at a chrysanthemum show at Ghent, Ky. The chrysanthemums were all grown by lady amateurs and some fine flowers were shown, especially the ones grown to single stem. H. G. W.



CANTON CHINA PLANT-POT.



Canton China Hall-Seat or Plant Pot Stand.

PLANT POTS —AND— PEDESTALS.

We invite the attention of intending buyers, or those interested in seeing the newest productions of the potter's art, to our importations of English, French, German, Japanese and Chinese **Plant Pots** or **Jardinieres**, selected by our buyers at the places of production in the present season.

They include all sizes and shapes up to the large and very large, from the lowest price up to \$150 each.

Our stock of China and Glass occupies seven floors and more than 10,000 bins.

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120 Franklin Street, BOSTON, MASS.

JEROME JONES, Pres. S. P. STRATTON, Treas.

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Clean and harmless
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Ask your seedsman
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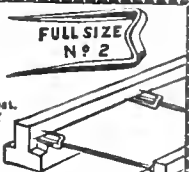
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Established 1900. JERSEY CITY, N. J.
In 26 months we have built for private estates 87,347 square feet of Glass Houses and have orders for still more. We are just completing a Range for Oakwood Cemetery, Syracuse, N. Y. We want your patronage. Tel. 1851 Bergen.

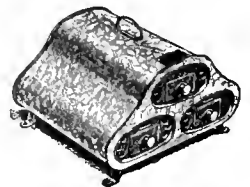
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**PROTECT Your Plants From Freezing in Cold
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at rate of a fare and a third on all trains of the Nickel Plate Road, on November 26th and 27th, to points within 150 miles, and good returning to and including November 28th. Chicago Depot, Grand Central Station, Harrison St. and Fifth Ave. City Ticket Office, 111 Adams St. Phone Central 2057. 59

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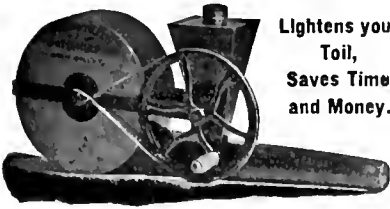
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EVERY GROWER SHOULD HAVE ONE.



Lightens your
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Distributes equally well Sulphur, Lime, Slug Shot, Tobacco Duat, Paris Green, E c.

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"Can sulphur a house 20x100 feet in less than three minutes."—Chas. Schweigert, Niles Center, Ill.

"Its work is rapid and perfect; predict its universal use."—Braut & Noe, Forest Glen, Ill.

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If your seedsman does not catalogue it, order direct.

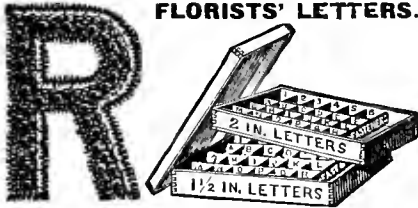
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This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.
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Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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Looking for Fall Novelties?
LOTS OF THEM ON EXHIBITION.
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When you can't get what you want anywhere else, send here, we will send it to you.

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DUNNE & CO., 54 W. 30th St., New York.
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WILL soon be ringing, whether we get coal or not. Buy your stock of scarlet immortal bells now. They are beautiful, uniform and perfect. There's money in handling them at present prices.

We have a new line of Straw Baskets made especially for our American Trade.

Wax Roses and other Continental Novelties. A very attractive stock selected by our Mr. H. B., while in Europe.

New Immortelles are on the way and first shipment due to arrive now.

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IF YOU WANT BEST VALUE IN

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Write to CLARE & SCHARRATH,
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KIFT'S Patent ADJUSTABLE VASE HOLDER

No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumbler) \$2.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nickel, with three clasps for 5 to 6-inch pots, each \$1.75.

KIFT'S Patent Rubber Capped FLOWER TUBES, 1 1/2-inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.

Hot Springs, Ark.

Via the Wabash.

Commencing Nov. 9, the Wabash established its system of through Pullman tickets from Chicago to Hot Springs, Ark., via St. Louis and the Iron Mountain Route. Passengers leaving Chicago on the Wabash fast day express, at 11:03 a. m., will arrive at Hot Springs next morning at 8 o'clock. For illustrated printed matter giving full information regarding this wonderful health and pleasure resort, address F. A. Palmer, Asst. Gen. Pass. Agt. Wabash R. R., 97 Adams St., Chicago.

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To Increase

our supply of up-to-date stock cuts we will make engravings of any subject desired and sell you electrotypes for thirty-five cents per square inch. This work will be our finest grade of wood engraving, giving the same quality that characterizes our work. Send us photographs, or sketches of your needs or the objects and we will make the engravings direct from them. We can supply at short notice and at list price any

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who desires exclusive engravings we desire to say that we shall still adhere to our principle of protection and shall give his work the same careful attention as in former years. We make every style of engraving and do printing of every description to help the horticulturist to place his products before the buying public in an attractive manner.

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NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn, N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

The Model Extension Carnation Support.



Flushing, Long Island, Dec. 11th, 1901.
MR. THERON N. PARKER, Brooklyn, N. Y.

Dear Sir—I have used your Wire Carnation Support the last two years, in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.

Very truly,
A. L. THORNE,
La Fayette, Ind.,
July 8th, 1902.
MR. THERON N. PARKER, Harrison, N. J.

Dear Sir:—After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season. We were much pleased with the simplicity, strength and neat appearance of the support.

Yours truly,
F. DORNER & SONS Co.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.

Please mention the American Florist when writing.

Denver.

CHRYSANTHEMUM CUT HEAVY BUT PRICES ARE GOOD.—STORE HAS FLOWER SHOW.—VALENTINE STILL VERY ILL.

The chrysanthemum show given by the Daniels & Fisher Company at their big department store was on a large scale and the center aisle of the store was used, arches and pyramids forming the principal decorations, while placed along the sides of the aisle were large vases of chrysanthemums. The show was well patronized.

Chrysanthemums are to be seen everywhere and form most of the window decorations. They are going only fairly well and the growers who are holding their own with them now and will have a late cut feel lucky. Notwithstanding the big cut that is in now and has been for the past two weeks, good prices have been realized.

J. A. Valentine is still very sick. An operation was performed November 6, and since that he has been very weak, but has gained sufficiently to cause encouragement. B.

EAST ST. LOUIS, ILL.—Aug. Mirring has been giving a chrysanthemum show with 102 varieties on display.

SPRINGFIELD, Mo.—The forty-fifth annual meeting of the Missouri State Horticultural Society will be held here December 2-4.

BAY SHORE, N. Y.—The first annual exhibition of the Suffolk County Horticultural Association held at the Casino here on November 6 was a gratifying success in the number and quality of the exhibits.

CYPRESS



Green House Material

Hot Bed Sash. Red Cedar Posts.

Write for circulars or estimate.

LOCKLAND LUMBER CO.,
LOCKLAND, OHIO.

H. M. HOOKER CO.

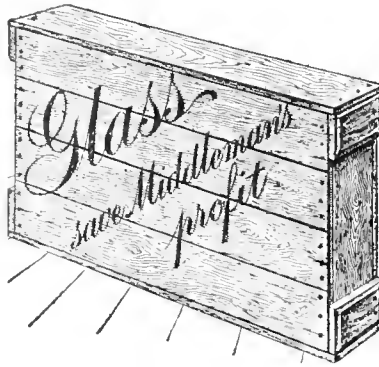
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Greenhouse Glass a Specialty.

59 West Randolph St., CHICAGO.



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CHALLENGE
VENTILATING
APPARATUS

WRITE FOR ILLUSTRATED CATALOGUE
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FRENCH GLASS

Direct shipment from abroad.

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MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
170 Fulton St.,
NEW YORK

GREENHOUSE MATERIAL.
Cal. Red Cedar and La. Cypress.
BEST GRADES. PERFECT WORKMANSHIP.
Write for Catalogue and Estimates.
A. Dietsch & Co. Chicago, Ill. 615-621 Sheffield Ave.

ESTABLISHED 1866 **EMIL STEFFENS** SUCC^r TO H. STEFFENS AND STEFFENS BROS.
MANUFACTURER OF
FLORISTS' WIRE DESIGNS & SUPPLIES
335 EAST 21ST ST. NEW YORK CITY.

GEO. M. GARLAND,
IRON GUTTERS AND POSTS
Testimonials from leading growers.
Send for Catalogue.
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Sprague Smith Co.

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Greenhouse Glass a Specialty
203 Randolph Street, CHICAGO

SIEBERT'S ZINC NEVER RUST GLAZING POINTS
Two sizes, $\frac{3}{8}$ and $\frac{1}{2}$, 40c a lb.; by mail, 16c extra.
7 lbs. for \$2.50; 15 lbs. for \$5.00, by express.
Over 6,000 lbs. now in use. For sale by seedsmen or
CHAS. T. SIEBERT, Sta. B, Pittsburg, Pa.
Please mention the American Florist when writing.

The Standard

The lightest running, most r: pid and powerful ventilating machinery in the market.

DUPLEX GUTTERS
Made of wrought or cast iron with self-adjusting sash bar clips. The only Drip Proof Metal Gutter offered to the public. Send for my catalogue free.
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DILLON'S GREENHOUSE MFG. CO. Bloomsburg, Pa.
 MANUFACTURERS OF HOT BED SASH, AIR DRIED GULF CYPRESS SASH BARS AND OTHER GREENHOUSE MATERIAL.
 BUILDERS of DURABLE and PRACTICAL Greenhouses at a LOW COST.
 Our descriptive circular contains valuable information for every florist. Send for it.

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STANDARD FLOWER POTS!

Packed in small crates, easy to handle.

Price per crate	Price per crate	
1500 2-in., in crate, \$4.88	120 7-in., in crate, \$1.20	
1500 2½ " " 5.25	60 8 " " 3.00	
1500 2¾ " " 6.00	HAND MADE.	
1000 3 " " 5.00	48 9-in., in crate, \$3.60	
800 3½ " " 5.80	48 10 " " 4.80	
500 4 " " 4.50	24 11 " " 3.60	
320 5 " " 4.51	24 12 " " 4.80	
144 6 " " 3.16	6 16 " " 4.50	

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address: **HILFINGER BROS. POTTERY, Fort Edward N. Y.** Or **ATCOST ROLKER & SONS, New York Agents, 31 Barclay Street, New York City.**

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A. F. KOHR, 1521-23 N. LEAVITT ST., CHICAGO, ILL., FOR PRICES OF

Standard Pots

which for strength and porosity combined are the best on the market.

RED POTS

SAMPLE POT AND PRICE LIST ON APPLICATION.

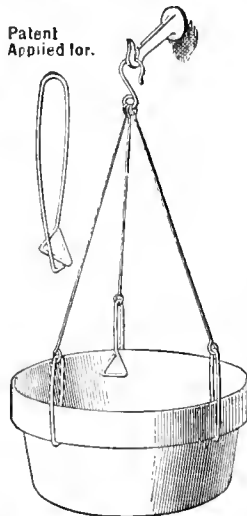
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Always do business, Week days and every day Sundays and holidays, All over the country, At home and abroad.

Kramer's Pot Hangers

Patent Applied for.



THE neatest, simplest, most convenient and only practical device for converting ordinary flower pots into hanging baskets. They fit all standard made pots from 2 to 10 inches in diameter. The illustration shows how they are attached. Just the thing for hanging up ferns, begonias, etc. You can make room and money by their use. Try them.

Price with wire chain as shown in cut, \$1.00 per dozen by express. Sample doz. by mail, \$1.25.

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GEO. KELLER & SON, MANUFACTURERS OF FLOWER POTS. Before buying write for prices. 361-363 Herndon Street, near Wrightwood Ave., CHICAGO, ILL.

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"STANDARDS" FULL SIZE AND WIDE BOTTOMS. BULB PANS AND AZALEA POTS.

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Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

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FLOWER POTS ALL KINDS.

STANDARD POTS A SPECIALTY

List and SAMPLES FREE. **SWANN'S POTTERY M'F'G CO., P. O. Box 78, MINNEAPOLIS, MINN.**

FOR SOMETHING NEW AND NICE

"Cluster of Roses Stationery"

for Florists, is the latest. Both plain and in colors. Samples free by **DAN'L B. LONG, Publisher, BUFFALO, N. Y.** Please mention the American Florist when writing.

Bargains FOR Florists.

We are headquarters for a general assortment of the necessary material and supplies that you are looking for. If you are about to improve or construct, consult us.

In connection with the dismantling of the Pan-American Exposition, we have for sale:

20,000,000 FEET of fine seasoned lumber, practically new, consisting of all sizes of joists, timbers, dressed and matched boards and flooring; also sash and doors.
50,000 FEET of roofing glass.

PIPE.

We are headquarters for pipe. We offer you: **100,000 FEET** of 2 to 4-inch wrought iron, lap welded casing. We can furnish this material in three ways: Either with sleeve or jacket couplings, screwed ends and threaded couplings or with expanded cast iron flanges with bolts and nuts.

1,000,000 FEET of standard black wrought iron pipe, size ¾ to 12-inch. It is second-hand but has new threads and couplings and is in first-class condition.

1,000 TONS of galvanized wire 9, 10, 11, 12, 13, 14 and 15 guage.

50,000 FEET of 2, 3 and 4-inch cast-iron soil pipe and fittings.

100,000 FEET of garden hose, ¾ and 1-in. **75,000 FEET** of cotton rubber-lined fire-hose, (rubber-lined in and outside), ranging in sizes 1 to 2½-inch.

VALVES and fittings of every kind.

BOX COILS for heating purposes.

RADIATORS, new and second-hand.

We also offer the following bargains in

Heating Boilers

50 CAST-IRON sectional heaters, capacity from 450 to 5,000 feet.

1 NO. 2 Standard Kroeschell hot water heating boiler.

FOUR 36x10 Horizontal Tubular.

FOUR 36x12 Horizontal Tubular.

FIVE 42x10 Horizontal Tubular.

FIVE 42x12 Horizontal Tubular.

SIX 48x14 Horizontal Tubular.

TWO 54x16 Horizontal Tubular.

FOUR 60x16 Horizontal Tubular complete with all fittings.

PUMPS of all Descriptions.

A carload of shovels and spades that we are selling at \$5.00 per dozen.

We carry a complete stock of hardware and farm implements, besides plumbing material of every kind.

Write for Catalogue No. 47.

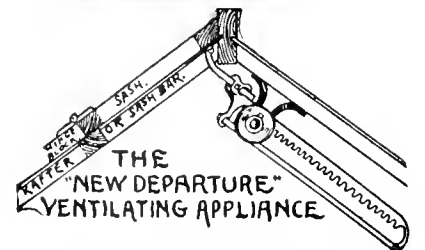
Chicago House Wrecking Co.,

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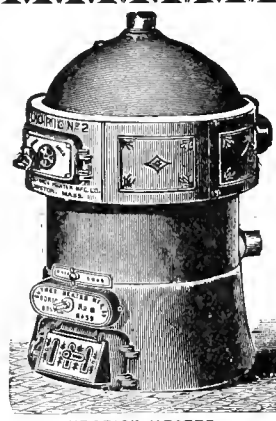


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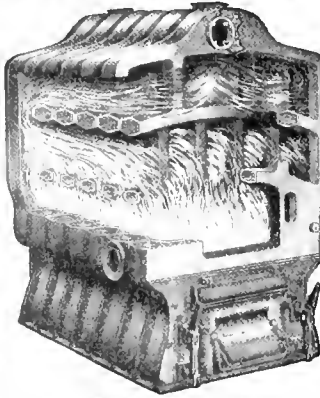
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THE AMERICAN FLORIST



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Vol. XIX.

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THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

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OFFICERS-ELECT—JOHN BURTON, president; C. C. POLLWORTH, vice-president; secretary and treasurer as before. Nineteenth annual meeting at Milwaukee, Wis., August, 1903.

THE AMERICAN CARNATION SOCIETY.

Annual convention at Brooklyn, N. Y., February, 1903. ALBERT M. HERR, Lancaster, Pa., secretary.

AMERICAN ROSE SOCIETY.

Annual meeting at call of executive committee, LEONARD BARRON, 136 Liberty St., New York, secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual convention subject to call of executive committee. EDWIN LONSDALE, Chestnut Hill, Pa., secretary.

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Notes and Comments.

E. G. Asmus came over to Philadelphia in time for the regular business to open in the Wholesale Flower Market last Saturday morning, and he expressed great surprise that the cut flower commission merchants were barred out. He believes that in order for the market to be the success it deserves to be, this barrier against them will have to be removed. In his opinion the fewer restrictions against the men handling flowers coming into Philadelphia the better. Keeping the commission men out of the market does not keep the flowers they handle out of competition with the grower who handles his own product, and the more the business of selling flowers at wholesale is centralized the better for all concerned. Quite a number of the growers are of the same opinion.

Mr. Asmus says that he had to pay \$4,000 for 250 tons of anthracite coal recently, which is \$16 per ton. He tried to put up the price of lily of the valley to \$4 per hundred to help pay for the additional cost of coal, but it was no go; after a week of futile effort he had to come down to the price valley was sold at by parties who had 2,000 tons of bituminous coal on hand when the coal strike started.

For many days recently Mr. Asmus cut roses to the value of \$225 daily from the new 55x400 rose house built by Hitchings & Company last summer, which is located at Closter, N. J., and is operated by his second son, Edward. Of course Mr. Asmus will not know until the first of July, 1903, what has been his gross cut and net profits during the season, but \$225 per day for several days in the fall months is a very good showing and must be quite gratifying to the persons interested.

Many times has it been asked by those who do not give much thought to such matters, "Why cannot we have a national chrysanthemum society in America with as many members on the roll as they have in the National Chrysanthemum Society of England?"

In an effort to explain, let us consider for a moment that in America there are not the numbers who make up the leisure class here as there are in Great Britain, and as William Scott said in Madison Square Garden a week or two ago: "Every person, no matter what the walk in life, lawyer, doctor, parson, weaver or farm laborer, all can talk intelligently about gardening, and cannot only talk

intelligently about gardening but can work effectively at gardening." A flower show is an annual affair in many of the country villages in the British Isles, and keen is the rivalry among the residents there in the various classes to be competed for. And then there are different "classes" to subscribe and subscribe to in the National Chrysanthemum Society of England. He who feels like paying into the "guinea class" does so, and all for the benefit of horticulture, and also for the benefit of horticulture he who feels he cannot afford to pay a guinea, pays half a crown cheerfully, and then again there is a column for donations—some subscribers more than double their membership fee by a donation.

This is a commercial age and Americans have a decidedly commercial tendency, which is all right, and it comes natural to try to receive as much as possible for as little as possible, and that is one reason why the membership list of our own Chrysanthemum Society of America is not numerically larger than it is. I believe now that annual meetings are assured for the future during the chrysanthemum, and consequently the correct, season, the number of members cannot help but increase. Note the number who paid at the recent meeting held in Chicago, over \$50! (It goes to show that almost anybody when on an outing trip will "chip in" a dollar, no matter what the cause, when personally appealed to, who would with indifference "turn down" a membership due-bill when sent by mail.) Many who have paid with such alacrity at Chicago have been members before, but for divers reasons had not kept up their affiliations.

I know there is a difference of opinion upon the point now about to be set forth, and that is respecting the publication of papers read at conventions or meetings of national and other organizations. What is read at such meetings may always be depended upon as timely, consequently valuable matter, and the promoters of the horticultural press can hardly be blamed for using every endeavor to secure same to adorn their inviting pages, but it certainly has a tendency to reduce the membership list when those who do not contribute to the maintenance of the organization are on an equal footing with those who do.

My own private opinion publicly expressed is that papers read before trade or any other organizations are the sole property of that organization before which they are read, and no press publication, whether horticultural, ethical or

otherwise, has any moral or other right to make a demand upon the writer of a paper for a copy of same prior to its being read before the body which was responsible for the desired paper having been written. The better way, according to the opinion of the undersigned, would be for the editor to review the papers read, drawing attention to the strong and best points in each one, frankly criticizing same and in his own way creating within his readers a desire to read the whole paper, and all the papers read, and in that way possibly increasing the membership list instead of as is now the practice of making common property of a society's only asset, thus having a decided tendency to decrease its number of members instead of increasing same.

E. L.

CARNATIONS.

SPOT ON CARNATIONS.

ED. AM. FLORIST:—I have a house of carnations benched the middle of September, apparently healthy. Now about one-third of them are covered with a dried spot with a dark ring at the outer edge and the young buds are drying up. It is rapidly spreading. What is the nature of the trouble and the remedy?

M. J. M.

The carnations have the spot. There is no real remedy. Spraying with copper solution early in the day so that the plants are dry before night, and giving them abundant ventilation and some heat at night and on all dark days, keeping the foliage as dry as possible, will eventually rid the plants of the trouble. They are likely to outgrow it when the regular winter culture begins, with plenty of firing and the addition of a dry atmosphere.

A. M. HERR.

NOTES ON VARIETIES.

It has always been a question with me whether it is profitable to grow a carnation that will not show a fairly good crop of salable flowers sixty days after it is housed. There are growers who bring their carnation plants into the houses from the field with well developed buds, but the following observations are taken

from plants that had all of the buds taken off them when brought in from the field. In addition to this, owing to some extensive additions and changes to the place, they were not planted until the last week of August and, in fact, most of them not until the middle of September. This, coupled with the fact that because of scarcity of coal they had heat but three nights from the time they were planted up to the time of writing, has cut the length of the stems at least three inches.

The beginning of November is a good time to make the first practical notes as to the value of the different varieties, as they should then have nearly their normal size and stem and it is well to know just how they stand in point of productiveness at this time.

Crocker on my place takes the lead in pink. Properly grown, its color is not excelled by any other carnation and in size and length and strength of stem it is the equal of any. It is not so productive as some others but as it brings almost twice as much as any other carnation on the market, a few undisseminated varieties excepted, I expect to have as much from my 10,000 plants of this as from any other 15,000 plants on the place. Last season a writer on carnations intimated that those growers who were praising Crocker had cuttings to sell, but this is a very narrow view to take and not a just one to the few who are fortunate enough to have success with this variety. It has been such a universal failure that I could not recommend anyone to grow it, yet I find it ahead of all others.

Cressbrook is making a tremendous crop of flowers, but only a few commercial stems up to date. The color is good, the size also, and with earlier planting and knowledge of its habits obtained this season it will no doubt make a profitable and standard sort. It has an iron-clad calyx and this may be an item, as we will have to save coal wherever possible; it can be done without nearly the loss some growers imagine.

Mrs. E. A. Nelson, a variety that gave the poorest promise of anything I ever bought, has turned out wonderfully fine

plants, showing that it has unusual vitality. It is not producing heavily at this time but is gaining in quantity and looks as if it will give a steady crop for the season. The flower is large and of good color and has not bursted a calyx up to date. It needs considerable room and produces a great many side buds, which need to be taken off at least once a week.

Dorothy was last season rated at this time as a second-class carnation but later it showed its good points and I planted it extensively. It is very much better than a year ago, is always full of buds and flowers and the size is up to the average, the stem good if grown a bit cool and the calyx non-bursting. It seems to do best in a temperature of 45° at night and with pretty liberal feeding.

Enquirer is producing some large flowers on short stems and I do not believe we have had half a dozen with bursted calyxes. It makes a fine growth, needs room and, if it keeps up to its present standard, will certainly be a good one to grow for size.

Morning Glory is a trifle short in the stem but is wonderfully productive. Its chief weakness is that it is rather single and many of the flowers have both stamens and pistil well developed. On this account, if it is allowed to fully mature on the plant, many of the flowers will go to sleep shortly after being cut. Cut a little close, they will keep with the average carnation. Mrs. Higinbotham is better in respect to everything but productiveness and on this is up to most other sorts.

Estelle lacks stem at this time but promises to produce a fair length soon. It probably should be planted extra early. The color is ideal and the flower itself fairly good. Apollo has the stem of Crane or better and the color of Estelle. It is now rather small but no doubt will improve later. It has produced a good crop of flowers and promises to keep up this record for the balance of the season.

Golden Beauty is as nearly right in its color as it seems possible to get, since the days of Buttercup. In color it is very much like that variety but it seems to be a steadier bloomer and a general improvement over that good old sort. Grown below 50° at night its will burst its calyx.

Roosevelt blooms early, late and all the time. It is a fine flower with a fine calyx on a fine stem. Its greatest fault is that it has considerable rust, but this has never had any effect on the quality or number of flowers cut. The fact that this variety produces such magnificent flowers in spite of its being full of rust has done much to show growers that a little rust on a variety that has merit is no reason why they should not grow it.

Prosperity is very much the same as last season, a fairly good crop of magnificent flowers but not much promise of anything afterward until late in the season. Gaiety is full of buds and flowers and, while perhaps not so handsome as Mrs. Bradt, in every other way it will supersede that much lauded variety. It is early in coming into bloom and promises to be very prolific. The flower is not so large as Bradt but it has an excellent stem.

Queen Louise stands at the head of my list of whites on account of the great quantity of flowers produced from early until late in the season. It is not a high grade carnation but fairly good in quality, with a good stem. Even with the adverse conditions under which my stock



EVERGREENS OF BOBBINK & ATKINS SHOWN AT THE NEW YORK EXHIBITION.



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CHARLES W. JOHNSON

ACTIVE WORKERS FOR THE CHRYSANTHEMUM SOCIETY OF AMERICA AND HORTICULTURAL SOCIETY OF CHICAGO.

has been grown this fall, the bursted calyxes have not been much over five per cent.

Alba looks as if it might be a very good one, but my cuttings arrived too late to make good plants. Gov. Wolcott is a grand flower judged from every point of view. Her Majesty is another high grade white, with an occasional streak of light pink through a petal or two. This comprises the list that I am growing this season. ALBERT M. HERR.

ROSES.

SEASONABLE NOTES.

We are now entering a season of activity for all rose growers and all who have their stock in a healthy and well advanced condition have much in their favor. Up to this time the market has not been very good for roses but we may expect an improvement at any time, now that the chrysanthemum season is drawing to a close.

With the weather which we have had lately we should have succeeded in procuring a hard growth, as a liberal amount of ventilation has been possible. Of course we must expect cold weather at any time now, and we should act

accordingly. Ventilate as freely as possible, avoiding all draughts. It is a good plan to allow the ventilators to remain open a few inches in the afternoon as long as possible, even if the fires have to be started a little earlier.

As the days continue to grow shorter more care is necessary to grow good stock. The grower should watch the weather indications and avoid allowing the foliage to be wet on a cloudy day. Syringing should only be done on very bright days.

The soil must be tested thoroughly and often, so that it will not become too wet at the root, or, on the other hand, dry at the root with the upper layer moist. This condition is often brought about by careless syringing. One can hardly be too careful in testing the soil, as the extra trouble necessary to do this properly is well paid for by the results obtained.

We are at this time nearing a young crop which will bring good returns for Christmas if properly handled. The plants have exhausted what nourishment there was in the soil and in all probability will need a light feeding regularly, say manure water once a week.

Do not allow the greenfly to get ahead

of you, as after they appear it is often necessary to adopt measures which will cause deformed flowers, or blooms of poor color. It is well to keep a light coat of sulphur on one pipe in each house to keep down mildew.

Go through the houses occasionally and cut out the blind wood. This is often found in quantity on the old stock and especially is it true where you are growing Golden Gate or Ivory. By trimming out this brush new breaks are induced which will give flowers if you have cut back to a good healthy eye.

R. I.

Some New Chrysanthemums.

Three of Nathan Smith & Son's 1903 set of novelties are illustrated herewith. The light yellow named F. J. Taggart is undoubtedly the most striking of the set. It is of the Bochmer type and won the special prize of \$150 offered at Kansas City for a unique flower. It was also given a gold medal there. The flowers are as large as eight inches in diameter and fully double. Sepia is the result of a cross of Mrs. T. L. Park and Nagoya. It is bright yellow, incurved, very similar in style to the Mrs. Park but an improvement on it, being double under all conditions. Globosa Alba is a very compact, closely incurved Japanese variety, globular and, as the name indicates, pure white.

The Annual Shaw Banquet.

The thirteenth annual Shaw banquet given to the market gardeners, florists and nurserymen of St. Louis and vicinity was held at the Mercantile Club on November 19, and proved a marked success although Dr. Wm. Trelease, the director of Shaw's Garden, was at the time out of the city. H. C. Irish assumed his place at the speakers' table. Dr. Green, one of the trustees of the garden, served as toastmaster. His first toast was to the fruit that caused the downfall of Adam and Eve and he called on Charles H. Williamson, of Quincy, Ill., vice-president of the Mississippi Valley Apple Growers' Association to respond, who said the American apple is invading the markets of the world. Arthur T. Erwin, of Iowa, a graduate, was called on to respond to the toast to the Missouri Botanical Garden. Albert Blair answered for the commercial grower of apples.

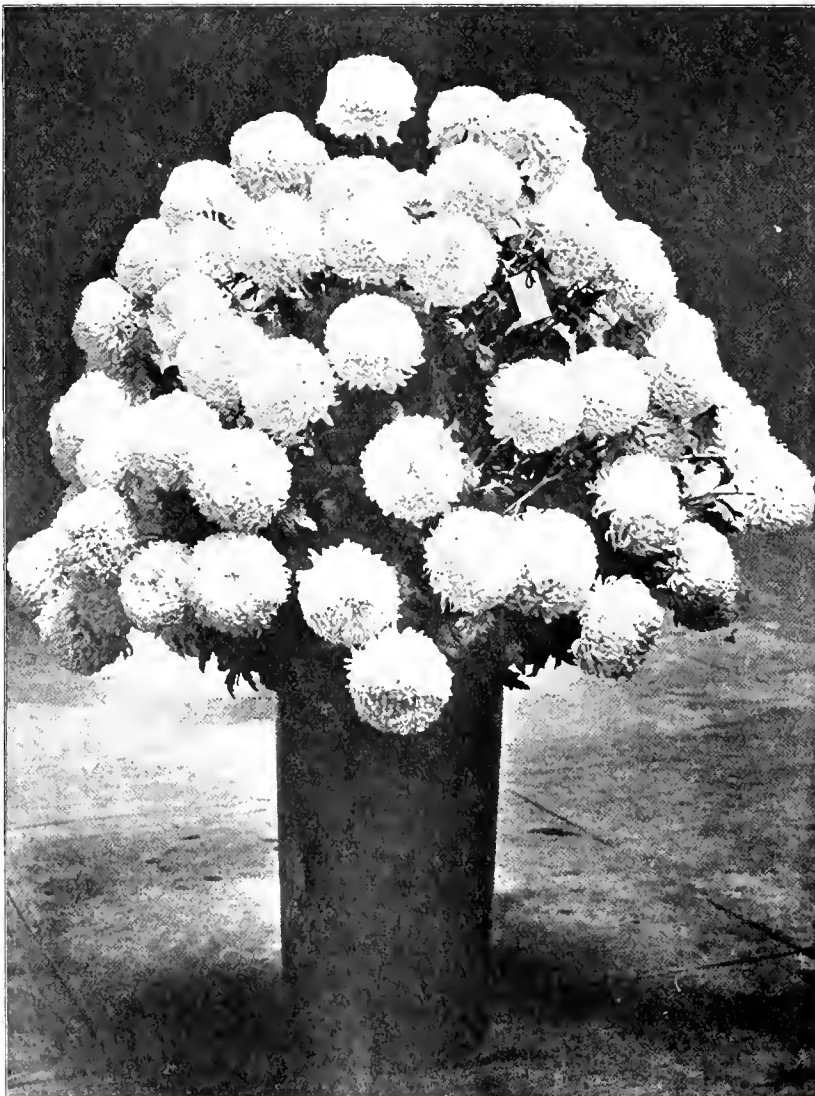
Dr. Herman von Schrenck, of Washington University, spoke of his experiences as a pathologist and J. W. Dunford, Jr., responded to the toast to the florists. C. L. Watrous, president of the American Pomological Society, answered for that body with a very fine speech and Dr. H. Bean, chief of the forestry department of the World's Fair, and F. W. Taylor, chief of the horticultural and agricultural departments, were called on for short addresses. The last speaker was Judson Squirrel.

R. J. M.

HOUSTON, TEX.—S. J. Mitchell, of this city, was judge at the Marshall flower show, November 13-14, and reports it an excellent success.

NEW YORK.—Moore, Hentz & Nash received large consignments of Queen of Edgely roses this week and disposed of them easily at top prices.

PEKIN, ILL.—Geo. A. Kuhl made a fine display of Boston ferns at the Joliet flower show and was awarded first prize. His stock never looked better than this year.



VASE OF 100 BLOOMS, CHRYSANTHEMUM TIMOTHY EATON.

(Exhibited at Chicago by Mrs. E. T. Grave, Richmond, Ind.)



SEPIA.



F. J. TAGGART



GLOBOSA ALBA.

THREE OF THE 1903 SET OF CHRYSANTHEMUM NOVELTIES OF NATHAN SMITH & SON, ADRIAN, MICH.

A Missourian's Impressions of Chicago.

[Synopsis of a paper by A. Jablonsky, read before the St. Louis Florists' Club, November 21, 1902.]

My carnation flowers don't look half as big as they did before I left for Chicago and I am fussing about with the men for keeping the houses too hot or too wet, and I don't know what else, trying to apply some of the wisdom I acquired up there. Excuse me for starting at the tail end of the story, but the end is generally the most important part of everything and it is so important to me that I mention the extreme end of the trip first.

After breakfasting on our arrival at Chicago the party went to pay its respects to Vaughan, who sent us to Western Springs. There they have the most complete storage house and packing shed I ever saw, and among other of their numberless varieties of plants I noticed quite a batch of Gloire de Lorraine begonias and another batch of Adiantum Farleyense. These were magnificent. Mr. Wilson showed us all through the establishment.

Thence we went to Bassett & Washburn's, at Hinsdale, where we received an eye-opener in the shape of very fine carnations, Lawson, Bradt, Prosperity, Crane and Morning Glory and others. They made me right sick with envy. Why can't I do the same. Another thing quite new to all of us was their patent Jones underfeed stoker, which I believe a paying investment for a large place.

That evening we went to the show. The gentlemen from Chicago received us very cordially and bestowed all manner of kindnesses on us. They had a pretty nice hall for the show, only the space allotted for the carnation display was not large enough to show them to advantage. However, they managed to put the right ribbon on the deserving ones. The diversity of the exhibit was a pleasure, showing that other flowers and plants besides the chrysanthemum are appreciated and cultivated for much longer periods to get them perfect. There were fine Lorraine begonias and geraniums of all sizes, some standard plants about eight feet high in perfect condition and full of bloom. At the show the Chicago boys challenged us for a match at

bowling, and of course they beat us, for some of them could whirl the ball over their heads and roll it backward and get a strike. They are up-to-date with other things besides carnations up there.

The next day we went out to Peter Reinberg's, the largest, most complete and neatest establishment I ever saw. His carnations were good and the roses the finest any of us ever saw. Talk about glass, when we go out there it is nothing but glass. The vegetable and truck growers have more glass and better houses than we have. It would have been impossible for us to go through the Reinberg houses; there you just go through the middle aisle and look each way, that's all. Three hundred feet is about the average length of their houses, with no side ventilation, but with a ventilating sash on top about every five or six feet apart. Their houses are all sash-bar houses and very lightly constructed.

The most beautiful sight I ever saw was a range of, I believe, six houses at Peter Reinberg's of Sunrise roses. The most wonderful foliage, perfect in every detail, full of buds and some in flower. Mr. Reinberg invited us to lunch and proved himself a most entertaining host.

Next we went to Wieter Brothers', also an immense plant. The best part of the place is the new range covering three acres all planted in carnations. The only thing I did not like there was the overhead system of heating, the pipes obstructing the view and detracting from the appearance of the houses. Mr. Ammann and Mr. Steidle fell in with the foreman of this range and, by the way they stayed with him, I guess they were extracting some pretty valuable points on up-to-date methods of growing.

We visited M. Winandy before returning to the city to prepare for the banquet of the Chicago Florists' Club, to which we were all invited. This banquet, mixed with the wit and humor of those responding to the toasts, will be a lasting remembrance to me and an inducement to reciprocate if the occasion offers in the future.

Having been up till two o'clock we had to hurry next morning to get a train for Joliet, for any florist going to Chicago should not miss a stop at Joliet, to have

a look at the crack carnation establishments there. Those establishments are put up with great cost, the like of which is simply out of reach of the likes of me. Their stock as a whole was the finest I saw on the trip, including some of the new varieties.

Packing Cut Blooms.

BY E. E. PIESER, CHICAGO, ILL.

[Presented to the Chrysanthemum Society of America at the Chicago convention, November 12-13, 1902.]

Having for years taken special interest in the handling of cut flowers, from the receiving end to getting them to the trade in small towns and large cities in the best possible shape, causes one to try the many ways to pack the blooms. Now, we have found, except in very warm weather, ice is not wanted. We have also found that as near dry as you can get your stems before packing brings the stock through the best. We have also found that where one can get boxes long enough, packing the head of the flowers all one way with a light cleat about the center of the box, is an improvement. This we do not follow ourselves, as we have not the space to carry these large boxes and also in many cases the small buyer complains of the use of a large box, as he says express eats him up.

I would say that it is not so much the packing of flowers that the trade has to complain of, but it is more often the fault of the flowers. In chrysanthemums especially this is noticed, as the grower does not leave them on the plant long enough to have them well done, or "finished," as the term is often used, and flowers of this stage, no matter how carefully packed, would not carry ten miles. The same fault again applies when the grower goes the other way and lets them get over-ripe; the softness that shows in a chrysanthemum not yet done will spot and looks like an over-ripe apple packed in the middle of a barrel, when over-done, or left on the plant too long.

As near as I can learn from what I see in our place, as well as in others, just as soon as a grower hears that a certain thing is a bit scarce he goes home and at once starts to count how many pennies or dollars there are in sight, and goes at

the cutting regardless of their completeness. This is a great mistake, for a dozen first-class chrysanthemums will bring more than ten dozen poor ones. Another thing comes before we get to the packing. Eleven No. 1 chrysanthemums and one "ringer" does not make a dozen first quality flowers. The same applies to all flowers, roses, carnations, Beauties, valley, violets, etc.

If I raised flowers to be sold on a wholesale market, or if I were a buyer on a large scale, I would furnish my own boxes and never have a box over six to seven inches deep for roses, carnations and that class of flowers. For chrysanthemums I would advise a flat box, wide enough for four to six and long enough so that they could be packed flat, with an extra light white wax tissue between each row of blooms. Never pack chrysanthemums one on top of another.

I have mentioned above that I believe all flowers should be as near dry as possible before packing; this I am sure applies to every flower except the violet, and, while it is never followed, I believe that a damp tissue on the stems and each bunch with white wax would improve them on their journey. Above all things don't try and put all the violets you can possibly gather into one box, but stand them up and make rolls of nice clean paper between each row. A violet takes the odor of printers' ink, so I say "pass up" old newspapers for this one flower and give them enough space so as not to crush the end row either forward or back. In cold weather put heavy paper and plenty of old newspaper outside of the box to keep out frost.

Experience is the best teacher and a grower often wonders why his neighbor gets more for his flowers than he himself gets, even though they both sell through the same broker. It is simply one of two things. The one that gets the money is the man that never cuts a flower until it is just right, never tries to push through a few seconds with a lot of fine stock, and who is liberal in his judgment in regard to the requirements of the time of year, as to the proper boxes, paper,

Cattleya Bowringiana.

The subject of the illustration is from the collection of Dr. R. Schiffmann, St. Paul, Minn. The plant is in a 12-inch pan and has fifty bulbs with eight flowering growths bearing ninety-six flowers each measuring nearly four inches across. The petals are of a very rich magenta color. The four strongest growths measure two feet nine inches from the top of the pan to the top of the flowerspike, are a full inch in diameter and bore sixty flowers; the largest growth bore eighteen flowers. The plant was purchased some years ago from the late Erastus Corning, of Albany, N. Y., who bought the same of James Veitch, of London, in 1883, as the label shows. It is grown with a general collection of cattleyas and the treatment differs none from the ordinary course of cattleya growing, warm and moist all the year around, always avoiding too much water at the roots, especially if over potted. The potting material is peat and sphagnum. The plant is a complete mat of live roots, the delight of all orchid growers. The plant was considerably larger but at each repotting period several pieces are removed for increase of stock.

Dr. Schiffmann's collection is also rich in hybrid cattleyas, lilio-cattleyas and phalaenopsis in variety. Of Phalaenopsis amabilis there are alone over 500 plants, many already far advanced in spike and promising a grand crop of flowers.

Chrysanthemum Exhibitions.

BY GROVE P. RAWSON, ELMIRA, N. Y.

[Presented to the Chrysanthemum Society of America at the Chicago convention, November 12-13, 1902.]

It is generally conceded that horticultural exhibitions are educational, but like other matters educational seldom profitable, viewed strictly from a financial standpoint. A net surplus one year is quite apt to be wiped out the next. Perhaps it was bad weather, or other local conditions were unfavorable, from some cause or other.

Local perennial exhibitions require the

be a chrysanthemum or other flower show. With sculpture and flowers in New York, landscape effects and dancing in Kansas City, and the first exhibition of the Chrysanthemum Society of America at Chicago, 1902 surely provides novelty galore, and it is said the public always craves novelty.

Much depends on the management. A successful manager should be wise above his fellows, the happy possessor of natural tact coupled with experience. It is no small job to manage any kind of a show, little or big. It is a calling where "few are chosen" and the balance "called down," as was Belshazzar of old. The handwriting on the wall reads, "Weighed in the balance and found wanting!"

Some of the qualifications of an efficient manager include affability, a genial individuality, philosophy, business tact, being "all things to all men," forecast weather probabilities, reduce expenses to the minimum, see that the daily papers do their share of advertising at cheap rates, and above all, induce or compel the dear public to come in, at a nominal price, that you may do them good. Of course "nerve" is indispensable, lots of it, and well tinged with that shining metal, an alloy of copper and zinc!

A popular manager is a cheerful liar—this is expected. And there is the matter of premiums to reward the winners and interest exhibitors, the larger the premiums the larger possibilities of exhibits. (I once won a load of hay as a premium in the rural districts. It was so big I couldn't get away with it!) And there are the judges to award the honors and receive anathemas.

Taking it all in all, a modern flower show can stir up things akin to a jealous church choir. A minister's little boy said to his father after the morning sermon, "Pa, was that true, what you said this morning, or was it only preaching?" I'm not preaching!

One of the essentials of a perennial flower show is competent judging. Choose apostles of horticulture, born, not made, being well equipped by nature and experience for the difficult task at best. Men of iron nerve and eagle eye and undisputed integrity, not easily coaxed to drink away their good judgment or biased by patronage. If I was preaching I might say more of what I've seen and experienced.

Sometimes judges are selected for other reasons than strict capacity. It is possible that an excellent grower might prove a poor judge. The question is asked, "Why don't the retailer help out more?" "Because he does not see anything in it, for himself," and the character of such exhibits rarely receives full justice. Judging florists' work is biased largely by individual preference and personal taste. I would omit premiums in this section and offer inducements for exhibits in some other way.

In my opinion amateurs should be the main support of all our horticultural exhibitions. They can afford gratis what is more or less an onerous tax to the struggling grower and commercial florist. The florists' time and wares are taxed in advance of most other professions. Various charities claim not "the tenth" of one's income but would even kill the goose!

Let every exhibition have some special prominent feature so stunning or distinct as to advertise the show of itself. Break up the sameness and monotony of general exhibitions. First premiums almost invariably go to varieties that produce the biggest blooms, so there is little



ORCHID DISPLAY OF DR. R. SCHIFFMANN, ST. PAUL FLOWER SHOW, NOV. 10-13.

twine and sundry items that put his flowers before the buyer in the best possible shape. That is why he gets all there is to be had, but his neighbor would not believe this, even though he stood in front of the counter when the stock was sold.

BALTIMORE, MD.—The fifth annual meeting of the Maryland State Horticultural Society will be held at Dushane Post hall December 18-19. A good programme has been prepared, including papers by Richard Vincent, Jr., N. F. Flitton and Orlando Harrison.

backing of a live horticultural society, or the pledged support of wealthy patrons, in time of need. An uncomfortable deficit will take all the "gimp" out of a manager and a financial committee, and when the time comes 'round again to discuss the advisability of having another the chances are the majority will "cuss" the whole thing. So it goes, and the project is *non est*, postponed indefinitely, what is called in parliamentary parlance "laid on the table."

Just what will make an exhibition successful, sufficient to attract the crowd, is something of a conundrum, whether it

variety. Compile a longer list of varieties eligible to compete for special premiums. Appletons and Eatons are not the whole thing. The board system that is being revived will add much to variety, and don't leave out specimen plants, even if they must needs be grown to order. Connoisseurs are interested in exhibitions without providing novelty, but unfortunately connoisseurs are not in the majority.

Furnish as good music as can be afforded. Music and flowers are a great combination and the glory of the scene is light, floods of it, and brilliant enough to shame out of existence any poor exhibits. An attractive exhibition hall that is centrally located is necessary for a full attendance.

The flower show of the future may have some different regulations. Cups or plate will probably comprise premiums. There will be more displays "for exhibition only" and greater individuality. Possibly judging may be eliminated and the good, the true and the beautiful dominate. Some think a flower show that is so beautiful in itself should be elevating and refining.

Have you ever been behind the scenes, before the lights were turned on, and the orchestra's music thrilled your very soul? Why, the air is blue with invective and "cuss" words chase each other like chain lightning. And strong, hot, clove-scented breaths hurl anathemas like battering rams. It is every man for himself and "the devil take the hindmost."

The deacon had a balky horse which tried his patience to the utmost. "Con-sarn ye! I'll sell your old hide the first chance I get!" "What," said his conscientious son, "do you think it right to sell a balky horse and make other people sin?"

The getting up of flower shows is often "balky" work and as a matter of conscience rather trying to the promoters.

A Type: Its Treatment in the South.

BY F. P. DAVIS, MOBILE, ALA.

[Presented to the Chrysanthemum Society of America at the Chicago convention, November 12-13, 1902.]

The distinction of speaking for the queen of autumn, from the south, which I have been asked to do by your committee of arrangements, is a compliment which I have hardly deserved, and which finds me poorly equipped in knowledge to do justice to the subject and credit to the craft, that tireless army of toilers who wage the war of extermination against the aphides and the mighty corythuca in the land of perpetual sunshine. It seems almost an intrusion for one of my limited experience to presume to advance an idea or suggest a method that could enlighten the master minds of the trade, whose patience I may test, but whose charity I shall entreat.

Surprising as it may strike some of you, the modern chrysanthemum is yet a novelty in many parts of the extreme south. Our native florists have not been alive to the spirit of progress and those who have come to us schooled by the contact with thrift have been of the not uncommon class of mind, that though in the full fruition of methods, cannot apply them to conditions and locality. It is no longer a problem to evade the dangers of cold, but to control heat is the obstacle that confronts us, and makes Chicago better suited to floriculture than Mobile.

Few of the many very excellent varieties of chrysanthemum can expand their flowers under the influence of a tropic sun. This one condition is what taxes



CATTELYA BOWRINGIANA.

the mind of the southern grower. By very close observation we must find a type that meets the emergency and weigh our selections by its standard. Any robust variety that grows quickly from late planting will do, provided its flowers do not linger in the bud but burst and open like a rose. No matter what the glowing eulogy in the catalogue may say for it, if it fails in this one quality it disappoints the grower.

In no variety do we find this quality so strongly in evidence as in the old Golden Gate. Since I first came to know it many years ago, I have learned to measure all others by this one feature which it possesses to a degree almost incomparable. Let the great growers study their stock for this simple prerequisite, and put into their catalogues a list suited to the south. They will do much to increase their own trade and assist the southern grower on the road to success.

In my own home city where 40,000 souls breathe the pure air from the Gulf of Mexico, and 20,000 more live in its beautiful suburbs, I blush to say, there is not one modern greenhouse where chrysanthemums are grown for sale. There are many houses, such as they are, yet I doubt if a single grower would know his plants by the foliage if he should lose the label. This condition is largely due to the many trials in the past, where their best efforts have been failures for want of the proper type.

As to treatment, it is simple, but do not be deluded with the idea that a first-class chrysanthemum can be grown in the south without the protection of glass. Surely not to give it heat, but protection from rain and wind it must have. It is true the sides may be only of canvas, and here we may obtain our ventilation, but we must be able to make the house perfectly close in order to combat insects and keep out storm winds. My experience has been that solid beds are better than benches, for the reason that they do not dry out so fast, and we can better risk keeping them a little on the dry side as protection against mealy bugs. Of course perfect drainage must be given, for which purpose I have used coarse gravel with the best results. It would be suicidal to use any wood in the construction of the beds or even as plant stakes, as white ants, or wood lice, as we know them, are sure to appear about the time your plants look the most promising. These wood lice are only second to the corythuca in point of destructiveness.

I should advise all growers who are ambitious to achieve success in the south to shun commercial fertilizers. I know of one grower who has been quite successful with liquid manure made from cotton seed meal rotted in water for sixty days and used very much diluted, but I take my chances with a heavy mulch of rotted sweepings from the cow lot, having first given the beds a light dusting of

bone meal, and then trust to ample nourishment at flowering time from copious watering, this being too late to give much encouragement to the mealy bugs.

For the corythuca I have used with the best results weak kerosene emulsion, sprayed on the under side of the foliage, this pest being similar in habit to the red spider, but not having the protection of the web. As the corythuca is not so well known outside of the cotton-growing states, I may ask your indulgence to give him an introduction to you. He huddles in flocks on the under side of the leaves and suggests to the naked eye a flock of sheep as you may have seen them grazing in the woods. When the plant is shaken the little fellows fly to the ground and at once begin to scramble back to the stem of the plant, where they climb and start a new colony. The body is about the size of a good fat black aphid. The wings stand out so that it gives the appearance of a woolly sheep. In color it is a dirty gray. It feeds altogether on the under side of the leaf, and its presence is therefore not noticed until the mischief is done.

While the touch of kerosene is certain death to it, I have never known a house of plants to be free of it and amount to much after it once made a showing. The evaporation of tobacco juice effectively rids the house of aphides, and we no longer look upon this pest with any great alarm.

I have long ago concluded that while we may be very successful with the chrysanthemum in the far south, by growing the proper type and giving it careful treatment, we may never hope to reach that stage of perfection which is attained further north. Climate and conditions are against us.

A Mammoth Bouquet.

Bouquet making is not yet a lost art in Hartford, Conn., judging by the graceful composition of the huge specimen illustrated herewith. It was a complimentary gift from the Hartford Florists' Club to the New Haven County Horticultural Society on the occasion of the recent exhibition and naturally attracted much

attention and admiration from visitors. A list of the material used in its make-up is given as follows: The sprays were attached to willow twigs, an abundance of damp moss being used and the center of the pyramid being well filled in with evergreen. The flowers used were chrysanthemums, carnations, geraniums, Forsythia Fortunei. The foliage was Kalnia latifolia, Prunus Pissardi, Lonicera fragrantissima, smilax, Spiraea arguta, Berberis Thunbergii, Photinia villosa, Andromeda polifolia and oaks. The fruits were Pyrus arbutifolia, Christmas pepper, Celastrus scandens, Ilex verticillata, Ilex laevigata, Rosa multiflora, Rosa blanda, Symphoricarpos racemosus, Symphoricarpos vulgaris and Bocconia cordata. Aspidium acrostichoides was used, also the following grasses: Eulalia Japonica, Bambusa Metake and Typha latifolia.

Commercial Flower Shows.

This is the season when commercial flower shows are most in favor, and they seldom fail to make a profit for their promoters. One of the most successful of the season was that of the Texas Seed and Floral Company, where 6,000 Dallas people inspected the display in the three days of the show. There was one of the best collections of chrysanthemums, roses and carnations ever staged in the southwest. A view of the store is shown in one of the accompanying illustrations. The other gives a glimpse in the store of the Daniels & Fisher Company, Denver, during their recent flower show. The store was crowded during the day and a large amount of good stock was shown, the display being along the main aisle. The event was not only a success as judged from the effect in the cut flower department but also in its influence on business throughout the store.

Houston, Tex.

The ninth annual chrysanthemum show given by the Faith Home Association at Houston, Texas, November 18 and 19, was a success in every particular. The season for flowers in this vicinity was an exceptionally good one, and chrysanthemums were never grown to more perfection. The premium list included about forty-five classes and they were all contested for with more entries than ever before seen at a flower show here.

A remarkable feature was that the amateurs, who raised pot plants and blooms in their home gardens and in open beds, had better results than the local florists who used glass protection. The exhibits sent by Nathan Smith & Son, Adrian, Mich.; Vaughan's Seed Store, Chicago, and James Morton, of Clarksville, Tenn., were the most successful of all the exhibits staged. A very fine exhibit of cut blooms was sent from California and came in a splendid state of freshness.

Among the Houston florists the following made very good exhibits of chrysanthemums, palms, ferns, roses, begonias, also emblems and design work: Wm. Kutchbach, Robert Luepke, M. V. Wright, Kerr's Fairland Greenhouses and the Bryn Mawr Nurseries. At the completion of awards it was found that they were all about equally successful in winning prizes.

The judging was done by S. J. Mitchell. The attendance for the two days was better than on any preceding year, realizing about \$700 on admission fees alone.

S. J. M.



BOUQUET SEVEN AND ONE-HALF FEET HIGH.

(Exhibited at New Haven, Conn., by Hartford Florists' Club.)



FLOWER SHOW OF THE TEXAS SEED AND FLORAL CO., DALLAS.

A Visit to Mt. Clemens Growers.

The Detroit Florists' Club is becoming famous for the frequency of its outings. The last one, and by far the most notable and interesting, was to Mt. Clemens, Thursday, October 30. John Breitmeyer's Sons, with their characteristic generosity, chartered a special car on the Rapid Railway, which left their Miami avenue store at 10 o'clock in the morning. The jolly party numbered just forty, including two visitors, A. Zirkmann, of New York, and Wm. Trillow, of Chicago. The weather was delightful, which added much to the pleasure of the event.

An hour's journey brought us to the Breitmeyer greenhouse establishment, where lunch was awaiting us. After that important part of the programme was concluded a tour of the houses was commenced. The most interest centered upon the new range of four large houses and they were first inspected. A description of these recently built and most modern of houses has not heretofore appeared in the trade press. Their location is at a considerable distance from the old range and the situation, alone, is an improvement.

The houses run east and west, parallel to the Clinton river, close by, from which the water supply for the whole place is obtained, since the use of Mt. Clemens city water was discontinued some time ago because the mineral properties of the same proved injurious to plant life. Three of these houses were completed last season, each 35x276. The fourth one was built the present season and is the same length as the others, but one foot wider, 16x16 double strength glass being used on all. They are heated with steam from two boilers each 160 horse-power.

The tables are constructed with brick side walls filled in with earth, on which is laid 4-inch tile, forming the bottom for the soil, which is five to six inches deep. These tables are five feet wide and there are five of them in each house, with six walks. The houses are separated by eight feet and have ventilation at the top and on both sides and are all planted with roses except one table devoted to Asparagus Sprengeri. The whole Mt. Clemens establishment, comprising in all about 220,000 square feet of glass, is under the charge of Fred. Breitmeyer, who is ably assisted by his younger brother, Will, and other department managers.

Mr. Breitmeyer says, speaking of roses, that the present season was fraught with many difficulties, the grub worm being the most serious, and evidence of their destructive work was apparent in most of the rose houses showing unevenness in the growth. Repeated plantings were necessary on many tables. When sterilizing of the soil was suggested, Mr. Breitmeyer said he has had some experience with soil thus treated and believes it takes the life out of the soil, requiring too much manure and work to restore.

One table of 1,000 Liberty, while still young and small, looked well and more of it will be planted here next year. A table of the new rose Mrs. Oliver Ames was especially good and Mr. Breitmeyer thinks it the best rose introduced for many years. He will plant it largely next year. Four tables of Meteor looked promising for a splendid Thanksgiving crop. A table of 1,000 plants of Helen Gould is on trial and up to the present is satisfactory, but heavy feeding is necessary to maintain its true color. A lot of 1,000 plants of Madame Hoste is

grown, also a similar number of Madame Cusin and Mrs. Morgan. Bridesmaids and Beauties are also largely planted, the four new houses containing a total of over 20,000 plants.

In the rose houses of the older range two-year old plants are mostly used and no ravages of the grub worm are seen. Perle, Sunset, Bridesmaid, Bride, the old Bon Silene, La France and Isabella Sprunt are grown to the extent of over 22,000 plants. Here about 18,000 violets are grown, chiefly in two varieties, Parquhar and Marie Louise, with some Swanley White and Lady Campbell.

At that time the spectacle of 25,000 chrysanthemums absorbed the attention of the visitors, and little wonder, for they were surely fine. A carefully selected list of varieties, both old and new, is grown, but the latter in limited quantities. The majority comprised the well known Bonaffon, H. Rieman, Ivory, Brunnilda, H. Hurrell, Golden Wedding, Thornden, Western King, the white and yellow Mrs. Jerome Jones, Childs, Murdock and Dean, and of the more recent introductions Appleton, Eaton, Mrs. Elmer Smith and Chadwick in goodly numbers. Arline, originating in Detroit, is a beautiful white of Domination parentage. The firm considers R. H. Pearson the very best yellow of its time of blooming, which is earlier than the well-known Bonaffon, and they still grow Mrs. Perrin in large quantities. Nellie Pockett, a creamy white, was good, and Silver Wedding, a valuable one among the long list of whites.

In carnations, Bon Homme Richard is largely planted and with them is unquestionably the best white, 3,500 plants looking splendid. Glacier is grown, too, in large quantities, for short-stemmed flowers only. Floriana, a pink, sent out three years ago and partaking of old Albertina character, is growing very bushy and erect and is very prolific. Marshall Field and Her Majesty are on trial and at present promise well. Dorothy is this firm's best pink, their 3,500 plants having yielded ten blooms to the plant by the end of October. Joost was late planted and has not yet done much. Prosperity does not bear out its reputation here, but a house of 1,800 Lawsons



A GLIMPSE OF THE FLOWER SHOW OF THE DANIELS & FISHER CO., DENVER.

is elegant. Murphy's White, a fringed variety, Gov. Wolcott, another large white, and Sunbeam complete the carnation list, with a few unnamed seedlings.

The resumption of the use of coal for fuel in place of oil, which has been in use here for the past fourteen years, is explained by the constantly rising price of the latter, which cost when first used, 56 cents per barrel and has now attained the exorbitant figure of \$1.30 per barrel. It was also noted that as the price advanced the quality of the oil kept getting worse and although well equipped with storage tanks, it was thought the return to the use of lump coal at about \$3 per ton would be an advantageous change even although the change necessitated building the chimneys higher at considerable expense and requiring additional help for firemen.

We next visited Robert Klegge's place, close by, where it is well known that first quality stock is the rule and not the exception. This place consists of thirteen modern houses covering an area of about 70,000 square feet heated by steam supplied by three boilers of an aggregate of 175 horse-power. One house was built the present season, 31x150, and of similar construction to those of the new Breitmeyer range. Mr. Klegge's specialty is violets and this year 20,000 clean, vigorous plants greeted the visitors. Two varieties are grown in about equal quantity, Marie Louise and Farquhar. Many bottomless pots are in use and Mr. Klegge had nothing but words of praise for them and will use them more extensively next year, although he says a little more labor is entailed by their use when the violets are first planted. In carnations, one house of 2,000 Lawsons and another of 1,000 of same variety were particularly fine and he may feel justly proud of them, as well as of a house of Morning Glory, which was strikingly beautiful. A house of Cerise Queen showed that this variety still has merit under careful culture, as shown here. A house of Dorothy, one of Estelle and Crane and another of Glacier and Prosperity were all in splendid condition.

F. Gutschow & Son's place was next visited. Their six houses and contents

were notable for neatness and order throughout. Three houses, each 31x112, were built the present season and contain 8,000 violets just recovering from the persistent attacks of what they call gall fly, and prospects for future good results are now apparent. Three houses of carnations, include Lawson, Morning Glory, Cerise Queen and Scott, and their condition is very encouraging and complimentary to the efforts of this new firm.

Jas. Taylor's place was next in line, where six houses, each 20x160 are chiefly devoted to violets and carnations, although this season marked his entry into chrysanthemum growing and he pointed with pride to his 4,000 plants, embracing the best known standard sorts, together with many of the more recent introductions. His carnations are all fine, especially two tables of Lawson, which promise to equal his famous ones of last year.

Another establishment was yet to be visited, that of John Carey, whose continued and uninterrupted success with Meteor and other roses has made him locally quite famous. An inspection of his stock revealed everything in splendid condition. One table of Beauties was especially fine and indicated a heavy crop in December. His new boiler room is now completed and the setting of a new boiler of immense size was in progress. Here, too, as in the four places previously visited, we were called upon to dispose of a generously provided lunch. Darkness was now upon us and the pleasures of the day ended in speeches, songs and recitations and of the latter Will Breitmeyer acquitted himself admirably, to the great delight of all. J. F. S.

HINGHAM, MASS.—The Hingham Horticultural Society held its annual chrysanthemum show on the evening of November 13, at Agricultural Hall. Fine specimen plants and flowers came from the conservatories of Peter B. Bradley, also George Hollis, A. A. Spear and N. L. Hollis. R. W. E. Vining, A. A. Spear and George Hollis were represented further by carnations, violets, etc., of superior quality.

Chicago.

ROSES ARE SCARCE FOR THANKSGIVING.—ORDERS VERY NUMEROUS.—TEAS MORE PLENTIFUL THAN BEAUTIES.—CARNATIONS BREAK IN PRICE ON HEAVY RECEIPTS.—VIOLETS COME IN AT THE LAST MINUTE.—CHRYSANTHEMUMS DO WELL.—A VARIETY OF TRADE AND LOCAL NOTES.

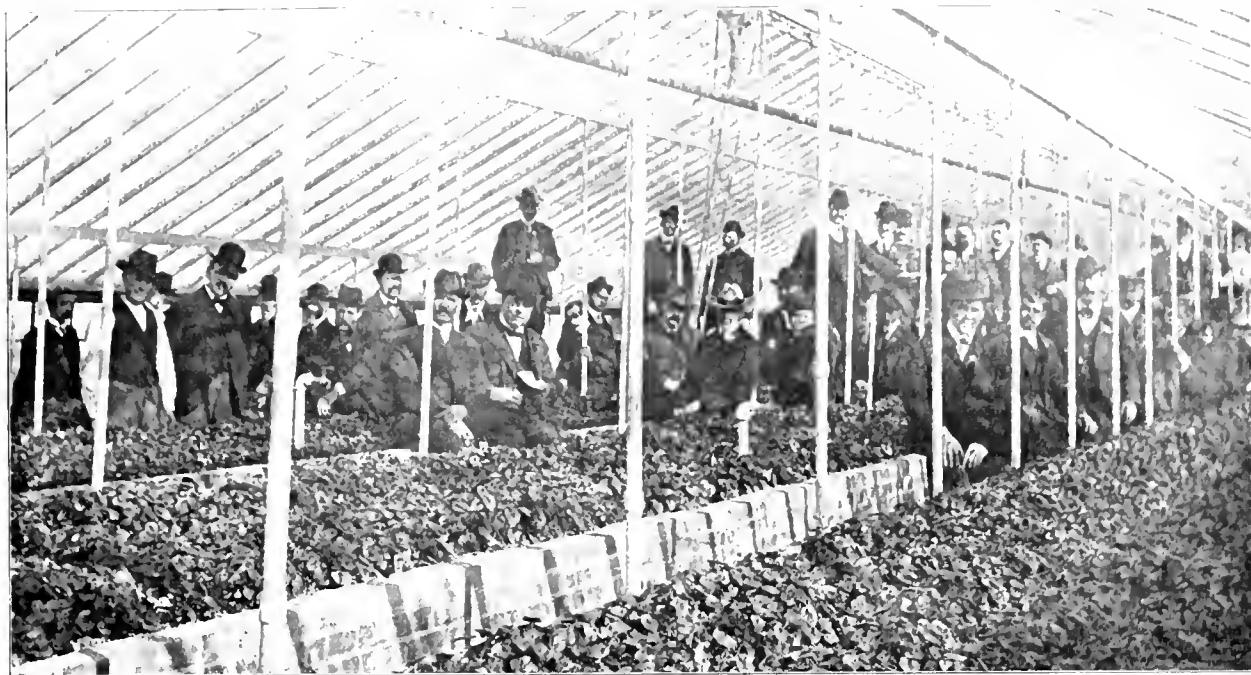
The Thanksgiving demand, as had been anticipated, found a market decidedly short in roses. Beauties were in pronounced demand and there was no house in the city which was able to fill anything like all its orders for this specialty. It was practically impossible for the local buyer to obtain Beauties in this market up to Wednesday, for everything in the rose line up to that day went out on shipping orders, which were never more numerous, but some houses say they averaged light. Supplies of Bride and Bridesmaid were more nearly equal to the demand, but here, too, the shortage was sufficient to compel the growers to send out poorer average stock than many of them like to ship, and even at that most orders were cut more or less and many refused entirely. There was a good call for Liberty and Meteor, both of which were correspondingly short of the demand. It was no surprise that the receipts of carnations were sufficiently heavy to cause weakening values before the shipping business had been disposed of. Then the market broke considerably. The carnation crop seems to be on with most of the growers in spite of the bad weather which has prevailed. The warnings against holding back were unheeded, as usual, so that Wednesday saw very heavy receipts and much of the stock was sacrificed or left unsold. The same story applies to the violet situation, there having been a good demand early in the week, with comparatively light receipts and a deluge on Wednesday. Thanksgiving day saw a fair demand, but repeated experiences should teach the growers that it is folly to hold any quantity of stock beyond the second day preceding a holiday. There has been a good market this week for all the chrysanthemums which the growers have been able to cut. The quality has deteriorated very pronouncedly, but good values have been received for all grades of stock and everything was well cleaned up. Such specialties as lily of the valley, orchids, sweet peas and wedding greens have moved well because of the number of Thanksgiving nuptial events.

At the regular meeting of the Florists' Club, November 26, there was a rather small attendance, due, no doubt, to the pressure of Thanksgiving work. In the absence of the retiring president, the duties of that office were assumed by J. D. Thompson, the president-elect. Alex. Henderson officiated as secretary pro tem. A committee of three—W. N. Rudd, J. C. Vaughan and P. J. Hauswirth—was appointed to look after the programme and entertainment for the winter months. Mr. Hauswirth, toward the close of the meeting, gave a most entertaining account of his trip to Joliet November 22, with E. F. Winterson, C. Balluff, Geo. Pieser and A. Lange, on the occasion of the recent flower show and banquet at that place.

John Brod, at Niles Center, has rebuilt twenty-eight houses this season, part of them 20x110 and the rest 15x114. The plant is now in first-class shape and profitable cuts are being made. A portion of the stock is consigned to Milwaukee.



HOUSE OF PALMS AT A. N. PIERSON'S, CROMWELL, CONN.



DETROIT FLORISTS' CLUB AT ROBERT KLEGG'S, MT. CLEMENS, MICH., OCTOBER 30, 1902.

The business of P. J. Saunders, on Cottage Grove avenue, will be discontinued next month, Mr. Saunders leaving for his old home, Cork, Ireland, where his brother, David, a widely known and successful nurseryman, died a few weeks ago.

George Bayer, of Toledo, again hit the market right with his chrysanthemums. He had several thousands of blooms at Kennicotts' this week, when most of the growers had practically ceased shipping.

Wietor Brothers report a good call for field-grown carnation plants to take the place of the chrysanthemums now cut out. They shipped several thousand plants during this week before the freeze.

Peter Reinberg has already begun to make carnation cuttings. He expects to do an even larger business than heretofore in this line this season. He had a big cut of Liberty for Thanksgiving.

Miss May Wood, who for some years was bookkeeper for Anthony & Curran and Joseph Curran, when they were in business, died November 27. Miss Wood was Mr. Curran's sister-in-law.

Quite a delegation of Chicago people went to Joliet on Saturday to attend the banquet in connection with the flower show.

Weiland & Riseh have a pink sport of Timothy Eaton, Daybreak in color, of which they think highly.

E. C. Amling has been getting in quantities of sweet peas this week, which have found a ready market.

President John Burton and John N. May expect to pay this city an early visit.

Visitor: Chas. E. Heite, of the Rock-Heite Company, Kansas City.

EAST BRIDGEWATER, MASS.—Mr. and Mrs. Abel E. Houghton celebrated their golden wedding anniversary on November 25.

MEDFORD, MASS.—Miss Eunice Belcher, formerly with John Coombs, of Hartford, Conn., has opened business here under the name of the Medford Flower Store.

Boston.

DOWNPOUR SERVES TO DAMPEN THANKSGIVING DAY ARDOR.—SHORT SUPPLIES PROVE ADEQUATE FOR THE OCCASION.—OLD GUARD ON THE MARCH.—A VARIETY OF LOCAL AND TRADE NOTES.

The Thanksgiving day record might have been different had the rain kept away. After a month of remarkably salubrious weather it seems rather hard that the day before Thanksgiving should be given over to one of the most furious storms of wind and rain imaginable and it is natural that much disappointment should be felt by the flower people. The stock available was decidedly light, had a normal demand been experienced. Chrysanthemums had ceased to be a controlling factor in the market, few flowers being seen except some late shipments of Mrs. Jerome Jones and Maud Dean. Roses averaged below the mark as to quality and more or less complaint was heard regarding the Brides and Bridesmaids. American Beauty sold out fairly well, as might be expected. Carnations were in heavy supply, considering the demand, and experienced only a slight inflation as a result of the holiday. Violets refused to be pushed. The highest figure that they could touch was 75 cents, although strenuous efforts were made. As to bulbous stock, no advance was possible. Lily of the valley is abundant and Paper White narcissi are on deck, but going feebly at \$2 a hundred.

On Tuesday afternoon and evening, November 25, a special detachment of the Old Guard responded with full ranks to a call for duty at the precinct of W. W. Edgar, at Waverley. The tour through the greenhouses disclosed the neatness and thrift always characteristic of this place. A bench of poinsettias in full glory for Thanksgiving was particularly interesting to the visitors and the usefulness of this cheery plant for Thanksgiving was quickly recognized. Another novelty was a house of astilbe, cold storage stock, which will be in bloom for Christmas. For Christmas, also, is a splendid lot of three-year ardisias, lilies, Lorraine

begonias and azaleas, among the latter being Van der Cruyssen, which is not usually in at so early a date. Easter preparations already appear in large blocks of genistas, acacias and so forth. Mr. Edgar expresses astonishment that *Dracena Bruanti*, of which he has elegant specimens, does not appear to meet with the favor it deserves as a good-keeping decorative plant. The salesman, Herman H. Bartsch, displayed a self-consciousness for which the reason was not apparent until it became known that he had been happy father of a nice daughter for some twenty-four hours, and he was duly congratulated thereupon by the visitors. In the evening the party was taken charge of by Mrs. Edgar and Miss Grace Edgar, whose ability to provide for guests of the Old Guard capacity has been well proved in the past and, suffice it to say, their reputation was fully sustained on this occasion.

Mrs. E. M. Gill, of Medford, suffered the loss of about 200 lights of glass and a promiscuous stock of plants in her greenhouse through the antics of a deer which came down on an exploring expedition from the Middlesex Fells park reservation. Deer and other wild game are increasing rapidly in that region.

According to the Boston *Traveller*, J. Geist has filed a petition charging his son, J. Geist, Jr., with embezzlement and asking for restitution of the sum of \$5,000, of which it is alleged the young man has come into wrongful possession.

It is said that Charles Evans, of Waverlytown, erstwhile cultivating due disdain for the Yankee military, as becomes a true Britisher, has lowered his colors and donned the uniform of the Ancient and Honorable Artillery Company.

H. P. Kelsey was married on Tuesday evening, November 25, to Miss Low, at Salem. The floral decorations were very beautiful.

Lawrence Cotta has four children sick with whooping cough, two of them seriously ill.

Visitors: E. S. Haskell, New Bedford, Mass.; John Chambers, Toronto, Ont.

Philadelphia.

SUPPLIES SHORTEN AND PRICES STIFFEN ALL ALONG THE LINE.—SALE OF CHOICE OF STALLS AT THE MARKET.—TWENTY-FIVE GROWERS ON THE GROUND.—TRADE LIVELY IN THE RETAIL STORES.

Flowers are scarce and Beauties of all grades are hard to get. Tea roses, particularly white ones, are all grabbed up on sight. In the commission houses and at the market there is a great rush for stock, which is sold generally before it arrives. Prices, in consequence, are soaring. Beauties range from \$1.50 to \$6 per dozen and no fault to be found with the grading. Teas range from \$4 to \$10 per hundred, being doled out in lots of twenty-five. Carnations range from \$1.50 to \$3 for good stock. Chrysanthemums are now on the slide and this week will no doubt wind them up. Ehret had an order for 1,000 choice Bonnaffon and was able to fill it from one of his growers who took his advice and did not force his flowers on the market two weeks ago. From \$8 to \$25 per hundred are the figures for good flowers. Violets are in good demand and all fair flowers sell rapidly at from 35 cents to \$1. Valley, Romans and narcissi bring \$3 to \$4. Some nice bouvardia in white, pink and red is being sent to the market by John Savage and Charles Meehan. It is a welcome addition to the rather meager assortment of the season.

The sale of choice of stalls took place at the market last Saturday morning and realized something short of \$200, which was considered good considering the limited number of growers, some twenty-five, who are on the ground. Every week two or three new ones are added and before long it will be a very busy place. Joseph Heacock and Henry A. Dreer are putting up platforms of their own. The office of the company is being built, a delivery service established and a commission man, Leo Niessen, has been rented a space to sell greens, ferns, wild smilax, galax, waxed paper and other florists' needs, but no cut flowers. Ernst Asmus was an interested visitor on the day of the sale of the stalls. He is likely to be a stall owner, or at least it is to be hoped so. He gave the interested parties some useful information about the market in New York and their way of doing things.

Trade has been lively for the past week, the president's visit having caused a demand for some elaborate decorations. H. H. Battles had a very large decoration at the Union League which was considered one of the finest ever made in this club house, where fine things of the kind are the rule. The stores are all having considerable to do with the coming out teas, which are now at their height, and many gorgeous bunches are seen daily on the counters. K.

Washington.

TRADE RATHER QUIET.—SOME HANDSOME THANKSGIVING WINDOWS.—LOCAL NOTES OF INTEREST.

Trade was not as brisk as might have been expected last week. Stock is good and plentiful. Violets are coming in very fine but are not much in demand. Everybody made preparations for Thanksgiving, some of the windows being decorated very tastefully.

Minder Brothers are cutting some fine chrysanthemums. Their roses and carnations are in good shape and they also have a fine lot of *Adiantum cuneatum* and other small ferns.

The American Rose Company furnished

the bouquets for the wedding of Miss C. Anderson. The bride's bouquet was of Ivory roses and a shower of lily of the valley. The bridesmaid's bouquet was of Alice Roosevelt roses, with a shower.

Robert Bowdler has put in a sixty-five horse-power steam boiler in his new range of houses, but is using it for hot water without pressure. The houses are planted with roses, carnations, callas and poinsettias.

A. Gude & Brother are cutting some fine American Beauties.

Visitors: Prof. Nash and Mr. Skene, of the New York Botanic Garden. P. G.

Milwaukee.

LOCAL ADDITIONS TO GLASS AREA BELOW THE INCREASE IN DEMAND.—LARGER SUPPLIES FROM ILLINOIS GROWERS ESSENTIAL.—JOTTINGS OF VARYING LOCAL INTEREST.

One of the daily papers recently published an interesting article under the head "Florists Enlarge Plants," in which it was said "that wholesale florists here are making a determined effort to become independent of the great flower growing center of Rogers Park and Rose Hill, Ill., which is the greatest cut flower section of the west." The impression given to anyone not acquainted with the facts must be that the Milwaukee florists are not satisfied with their Illinois connections, but this is palpably untrue. The Illinois growers have done much to build up this market by their co-operation with the commission houses here and both Holton & Hunkel and C. C. Pollworth say there will be more flowers come into this market from Illinois this winter than ever before, because they are needed in spite of the increase of glass here.

The principal increases in glass here this season are in N. Zweifel's new carnation houses at North Milwaukee and the new plant of Charles Johansen at the same place, Heitman & Baerman's addition in Wauwatosa, and A. Klokner's plant in the same town. A. Burmeister has expended \$8,000 on Howell avenue and Ben. Gregory has put up a "boarding house." He will look after the trade in that line, which was a specialty of the Whitnall place before the Holton & Hunkel Company took possession.

The Florists' Club has begun regular meetings for the purpose of devising ways and means for making the convention next August as satisfactory as possible. One feature talked of is the arrangement of an exhibition that will be attractive to the public as well as to the craft.

The park commissioners are reported to fear getting into a rut in the management of their horticultural affairs; what they should fear is the result of their penny wise and pound foolish policy.

The C. C. Pollworth Company has raised the office about seven feet above the floor, so that other business can be done underneath. Their present quarters are becoming too small.

Herman Stapes, of Elm Grove, is bringing in some good bouvardia to Fox. C. B. W.

BELLOWS FALLS, VT.—C. W. Butterfield has retired from the greenhouse industry and sold out the contents of his place at auction.

WINSTED, CONN.—Nine fern gatherers have been collecting in the woods here for New York parties for some time. The ferns grow in great profusion in this section.

St. Louis.

CLUB HOLDS A WELL ATTENDED SESSION.—NEW CHRYSANTHEMUMS SHOWN.—MARKET SHORT ON SUPPLIES.—THE PRICES.—VARIOUS LOCAL NOTES.

The last meeting of the St. Louis Florists' Club found twenty members and two visitors present. Although this was supposed to have been a chrysanthemum meeting there were very few to be seen. Most of the home grown stock was past but Nathan Smith & Son sent a box of their novelties in fine shape. Dr. A. S. Halstead had several cut blooms of his new seedling geranium. A vote of thanks was given both these exhibitors. After the usual order of business the president called on Mr. Jablonsky for his story of his trip to Chicago, which proved very entertaining. Otto Koenig, J. J. Beneke, Mr. Weber and Mr. Ammann also spoke and were warm in their praises of the Chicago show and the hospitality of the florists there. The Chicago bowling team is to be invited down here during the holidays.

The market has not had plentiful supplies of good flowers this week. Roses are bringing from \$5 to \$8 and \$10 for fancy stock, while carnations fetch \$3 to \$4. Chrysanthemums are about at an end. Violets are also slow in coming in and bring at present \$1 to \$1.50 per hundred. Christmas green is beginning to show up and \$5 per crate is asked at present.

The new pink seedling chrysanthemum, R. E. Richardson, that has excited considerable interest, was exhibited at the St. Louis show last year by its originator, Julius Schray, who sold it to Mr. Lemon, as was mentioned in these notes at the time.

Parker F. Barnes, a member of the club and formerly with the Missouri Botanical Garden, left November 25 for Manila, where he will accept a position as government forester.

Julius Koenig is now with H. G. Berning. He is a brother of Otto and George, of the Koenig Floral Company.

Recent visitors: J. A. Peterson, Cincinnati; Arnold Ringier and Wm. Trillow, Chicago; S. S. Skidelsky, Philadelphia; Miss Molly Allen, Boonville, Miss.

R. J. M.

Cleveland.

TRADE NOT WHAT MIGHT BE EXPECTED AT THE SEASON.—MUCH GOOD CHRISTMAS STOCK IN SIGHT.—VARIOUS LOCAL NOTES.

Business for the past week has been fair, but not quite as good as one would expect at this season. The Thanksgiving demand created a spurt which cleaned up everything. Although if the demand were any greater there would not be sufficient good stock to supply the demand, as the continued dull weather has a baneful effect upon the rose and carnation output. Chrysanthemums are on the wane; another week or so will wind them up. The season for the queen of autumn this year has been much shorter than last year, owing, I presume, to the continued warm weather which advanced the blooms more rapidly than if the weather had been colder.

G. M. Naumann has a house of Lorraine begonias which look exceptionally fine, also a house of *Primula obconica* which will sell to good advantage during the holidays. His cyclamens are the finest we have seen for a long while. They are undoubtedly the best that come into this market. His new carnation,

Louise Nannmann, while not a show variety, is a most prolific producer, some of the flowers measuring over three inches across.

S. N. Pentecost is right in it this year with peppers in 6-inch and 7-inch pots. They certainly are a fine lot, the best he has ever grown. He also has a fine lot of *Primula obconica*. His carnations this year are better than ever. Altogether the business with him this year has been very satisfactory.

John Thomas, foreman for D. Charlesworth & Son, was married to Miss Nora Schmidt, of East Cleveland, September 20, but the event was kept a secret.

Casper Aul will remodel his entire plant next year and put in steam heat.

Mrs. G. G. Stehn is recovering from her recent illness.

Visitors: Herbert Heller, of New Castle; J. McHutchinson, of New York.

ECHO.

San Francisco.

CHRYSANTHEMUM SEASON DRAWS NEAR A CLOSE AND PRICES ON OTHER STOCK ADVANCE.—SOCIETY MEETS.—DOINGS OF THE GROWERS.

Indoor chrysanthemums have been going so fast of late that they can only be had at a premium, since very few late varieties are grown here. Outdoor stock has been damaged severely by heavy rains and frosty mornings. Prices for roses and carnations have advanced fifty per cent and will keep up from now on. Business has been fairly good so far and no complaints on that score are made. So far no hyacinths are to be seen and a shortage of this bulb seems to be on account of the high prices charged this year by the Dutch growers.

At the recent meeting of the Pacific Coast Horticultural Society a new committee on entertainment was elected, four new members proposed and four elected. A paper was read by Mr. Waddington, which was so well received that he was requested to re-read it at the next meeting, the first Saturday in December.

At Schwerin's stock is in excellent condition. The Beauties are doing considerably better this year. This place is headquarters for bulbous stock and an immense number of bulbs have been boxed up for forcing.

Ferrari Brothers are bringing in some fine carnations and roses and expect to make quite a hit at the holidays.

GOLDEN GATE.

Omaha.

SOCIETY TO BOWL AND DINE.—SEEDLING CARNATIONS SHOWN.—TRADE GOOD.—CHOICE STOCK NOT PLENTIFUL.—A VARIETY OF PERSONAL AND LOCAL NOTES.

The last two weeks have seen a number of large social events, making a good demand for chrysanthemums and American Beauties. One of the receptions was almost a flower show, so lavish were the floral decorations. Good chrysanthemums have been hard to get around Omaha and pot chrysanthemums have been much in demand and sold well. Peterson Brothers had a fine lot which brought from \$1 to \$2.50 each.

November 13 the Nebraska Florists' Society met at the City Hall. There were some good chrysanthemums and seedling carnations shown. G. Sorenson, of Florence, has a good dark pink seedling which has a fine stem and form. H. Peterson, of Florence, the violet grower, also has a good white seedling carnation. The club decided to have a bowling con-

test, December 2, and a banquet afterwards.

S. B. Stewart has one window devoted to ballia in colors and says it sells well, as it has taken a hold among the society people.

Hess & Swoboda are showing a fine lot of poinsettias and azaleas in their window.

A. Donaghue is cutting some fine Meteors and Bridesmaids.

GRIPPE.

Cincinnati.

TRADE DEMANDS MORE THAN MARKET CAN SUPPLY.—ROSES SCARCE AND BEAUTIES OUT OF THE QUESTION.—LOCAL NOTES.

Trade is very brisk and the wholesale houses have to skirmish around to get flowers enough for their orders. Good Brides, Bridesmaids and Meteors are fetching \$6 per hundred, while fancy carnations have gone to \$4. Beauty roses are out of the question; the few coming in are sold at sight. Chrysanthemums are cleaning up pretty well and in another week or two they will be all gone, with the exception of the very late varieties. Gus. Adrian sent in a fine lot of Golden Wedding, which found a ready market for Thanksgiving. Gus. Meier, at Hyde Park, is right in crop with Brides and Bridesmaids and they found the market waiting for them.

The carnations at A. Sunderbruch's Sons' greenhouses are a fine sight. Mr. Skidelsky, who was in town this week, says they are the most uniform lot of plants he has seen in his travels in the west. The Mrs. E. A. Nelson here is certainly a grand variety and proves itself to be all that is claimed for it.

The Cincinnati Cut Flower Company had a very pretty thing on exhibition this week. It is *Ilex verticillata*, or commonly called winterberry. It will be a fine Christmas specialty.

J. A. Peterson is sending in some of the finest lily of the valley seen in these parts for some time and says he realizes \$5 and \$6 per hundred for same.

Charley Brunner blew into town Tuesday, loaded up with stock enough to help him out on a good big decoration for Wednesday.

Indianapolis.

A VARIETY OF JOTTINGS OF MATTERS OF LOCAL INTEREST.—DOINGS OF GROWERS AND RETAILERS.—PROJECTS ON FOOT.—NOTES.

Flowers were rather scarce for Thanksgiving, for roses are off crop with everybody, violets and carnations are not overly plentiful and chrysanthemums have seen their best days. Prices stiffened accordingly; \$8 to \$10 for good teas, \$2.50 for carnations and \$1 for violets.

There is a movement on foot to build a large convention hall in this city. John Bertermann is deeply interested in the project on account of the chrysanthemum show. During his recent visit in Kansas City he made most careful investigations along that line.

The Smith & Young Company is to handle nursery stock as a side line. They have issued a price list of trees and so forth and are hopeful of making their nursery department a paying venture.

E. Hukriede & Son have very fine chrysanthemum pot plants this year. They also make a specialty of Boston ferns and the quality of their plants is up to the top notch.

The drivers of Bertermann's delivery wagons have been dressed out in very neat gray and green uniforms.

The checks of the Florists' Hail Association to pay the Indianapolis members who suffered by the hailstorm in October, arrived with characteristic promptness.

M. Brandlein is very proud of his fine carnations. He is especially enthusiastic over Dorothy, which he considers the queen of the pinks.

A. Wiegand & Sons have provided their boilers with automatic water-feeders.

John Hartje has had a very narrow escape from typhoid fever.

Wm. Billingsly has remodeled his store.

H. J.

Syracuse, N. Y.

TRADE GOOD DESPITE UNSEASONABLE WEATHER.—CHRYSANTHEMUMS PLENTIFUL AND GOOD.—DOINGS OF THOSE OF THE CRAFT.

Cut flowers are coming in freely and sell readily. Chrysanthemums are the most popular and are fine. They came in a little late and the dealers consequently had a better quality for Thanksgiving than usual. Last year at this time there was snow on the ground but this season the weather during November was more like September. No one is complaining of business and, while chrysanthemums take the edge off from the business on the other flowers, still there is a fair trade on all lines.

Henry Morris made a big showing of chrysanthemums for Thanksgiving and a few days previous. Mr. Morris has just planted out 1,000 pæonias. He is going more into the culture of spring blooming plants every year and says that the demand for that class of stock is increasing all the time.

A recent funeral design turned out by Quinlan & Company was a representation of the badge of the Consistory. The double eagles were made of violets and 2,000 were used. The crown was made of white roses and violets and the triangle of lavender orchids.

W. S. Wheadon recently returned from a week's vacation in Michigan, where he created havoc among the small game. He spent a day at the Chicago flower show and felt well repaid for the trip.

A. J. B.

Lowell, Mass.

ALL ABOUT THE STATE OF SUPPLIES.—CHRYSANTHEMUMS ON THE WANE.—OTHER STOCK MAKES ADVANCE.

Already some of the chrysanthemums are beginning to look like the last rose of summer. Such unusual weather as we have had this fall has shortened the life of the queen of autumn, but never was there a season when there were so many blooms of good quality. Other stock is now getting a chance to show itself. There has been a good deal of complaint lately of the sleepy condition in which carnations have arrived, but this seems to have been remedied. Lawsons of good quality that were being sold for \$1.50 per hundred a few days ago have just doubled in price. Whites seem to be abundant, with the price for good stock at \$1.50 per hundred. There has been an increased demand for violets the past week. The supply of roses is not quite up to the standard, but the Beauties that find their way here from Madbury, N. H., are elegant.

Business during the past two weeks has been very brisk at times, there being considerable funeral work.

Wm. Whittet is a candidate for re-election to the city council.

A. M.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
Subscriptions accepted only from those
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front pages, regular discounts apply-
ing only to the back pages.

The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines only.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

PRICES of window glass usually advance
about January 1.

FRANZ DEEGEN, not Deegan, is, we
understand, the correct name of the new
yellow rose seen at recent exhibitions.

POLYGONUM LANIGERUM, with hand-
some silvery foliage, is recommended as
a good subject for sub-tropical bedding.

THE mailing label on your paper shows
when your subscription expires; when
you send your renewal note that the
date changes within two weeks; it will
serve as your receipt.

RAFFIA, long indispensable to the horti-
culturist, has now become an article of
of household necessity. In summer the
women weave it into hats, in winter the
children into Indian baskets.

SUBSCRIBERS are free to ask our help in
the solution of their knotty problems,
one and all, but the query must be signed;
the name and address are not necessarily
for publication, merely as evidence of
good faith.

CHRIST. HANSEN, of St. Paul, is con-
testing an assessment of \$1,200 on the
stock in his greenhouses, but Judge Kelly,
of the District Court, on November 18,
handed down a decision that plants in
greenhouses are assessable as personal
property.

New Incorporations.

Among the recently reported incorpo-
rations under New Jersey state laws are
"Thos. F. Galvin, Incorporated" and the
Rosemary Roseries.

Valuable for Reference.

ED. AM. FLORIST:—I have taken your
paper for more than ten years and have
preserved every copy, the volumes are so
useful for reference.

ALAMITOS NURSERY,
Long Beach, Cal. MRS. C. C. LOWE.

Important Awards.

Some important awards which have
been inadvertently omitted in our exhibi-
tion reports are as follows:

At the Chicago exhibition, November
11-15, the F. R. Pierson Company, Tar-
rytown, N. Y., received for *Nephrolepis*
Piersoni the highest award of the soci-
ety.

At the American Institute exhibition,
New York, November 12-13, E. G. Asmus,
West Hoboken, N. J., was awarded a
silver medal for Franz Deegen, his new
yellow rose.

Greenhouse Building.

Newark, N. Y.—Chas. E. Clark, one
violet house.

Charleroi, N. Y.—J. W. Coyle, one house.
Crown Hill, N. H.—Chas. Dubois, one
house.

Pittsfield, Mass.—Dr. F. A. C. Perrine,
conservatory.

Florists' Clubs' Programmes.

One of the reasons for slim attendance
at many club meetings is the deplorable
monotony of the round of essays and
listless discussions. The surest way to
put life into the meetings is to put life
into the programmes. This isn't such a
difficult task, for every club has live
members. As a sample of what more
club programmes might be, the following
programme, for the last meeting at
Detroit, is submitted:

Orchestra. Walter Taepke and friends.
Musical sketches. Miss Common and Mr. Bird.
Talk on Newport and New York.

Song. Hugo Oestreichler, formerly with the
Metropolitan Opera Co.
Talk on Chicago Show, etc.

Messrs Rackham and Beard.
Imitation of Chicago Florists' Club Choir at a
banquet. The Kids.
Trip to Chicago and what we have seen.

Unveiling of a new statue.
Dedicated to the Florists' Club.

N. B. Dues can be paid at any meeting of the
club.

Etherizing Lilacs Before Forcing.

The following may not be new to all
readers, but I believe it will be to many
and it is worth a trial. We have had the
best of success by the method, using it
for procuring blooms for a stated time.
It will work; try it.

Just six weeks before you desire the
blooms, take lilac plants that have been
kept in pots, either the ones forced before
or new plants potted in advance for the
purpose, and place them under a tight
box. Put the plants on the ground, close
together, and turn a large box over them.
Then place a ten-ounce bottle of spirits
of ether with cork removed under the
box with plants. Bank up all around
the box with soil and see that the box is
as near air-tight as possible. Let the
box stand for forty-eight hours. Then
remove plants and treat the same as if
you had dug them in the winter for
spring forcing. If you follow out these
directions, you can bloom this plant at
your own will. I believe this treatment
would apply to other plants, but have
not tried it on anything but lilacs.

F. W. B.

Best Indoor Climbers.

ED. AM. FLORIST:—I should like to
know four of the best conservatory
climbers, the temperature of the green-
house being 70° to 80° in the day time
and 55° to 60° at night.

Four of the best climbers for conserva-
tory use under such temperature condi-
tions as have been indicated are *Passiflora*
racemosa, *Stephanotis floribunda*,
Thunbergia laurifolia (T. *Harrisii*) and
Stigmaphyllon ciliatum. This selection
provides red, white, blue and yellow
flowers respectively, in the order in which
the names are given. Of these the *passiflora*
and the *thunbergia* are the most
rampant growers and are also exceed-
ingly free in flowering after the plants
are well established, while the *stephanotis*
is one of the most fragrant flowers that
can be used for this purpose. The
stigmaphyllon is known as the butterfly

vine or golden vine, is of slender growth
and also flowers abundantly. A second
choice of four species for the same pur-
pose would include the following: *Tacsonia*
Van Volxemii, *Clerodendron Thomp-*
sonæ, *Bignonia venusta* and *Bougainvil-*
lea glabra, all of which are most admir-
able strong growing climbers with fine
showy flowers.

W. H. TAPLIN.

New York.

REDUCED RECEIPTS AFFECT A REJUVE-
NATION OF THE MARKET.—PRICES AT A
REASONABLE LEVEL.—FAIR BUSINESS FOR
THANKSGIVING.—VARIOUS NOTES.

A diminished supply of chrysanthe-
mums and a not-over-abundant cut of
roses and carnations, together with an
apparent disposition on the part of
growers to withhold some of their pro-
duct, had the effect, two days before the
holiday, of stiffening up prices all along
the line. In tea roses those with good
flowers and clean foliage are in the
minority, the greater number showing
mildew, and poor color in the pink
varieties. Beauty is the leader at prices
which compare favorably with those of
former years. The supply of Beauty is
by no means cumbersome. Carnations
have spurted and are assuming a more
prominent position in the estimation of
the buyers, who have been regarding the
divine flower with studied indifference
while chrysanthemums were in their
zenith. Of the latter the finest coming
into the market are the blush-pink Allen,
Bonnaffon, Jones, Eaton, Chadwick and
McArthur. All are salable at fair
figures. With no horse show bugaboo to
hustle the price and a normal picking of
violets, these have taken a normal place
in the game and clear up at prices com-
mensurate with the grade and the pocket
of the buyer. The range is from 50 cents
per hundred to \$1.50 and there are some
especially fine ones in bunches of 100
flowers that bring \$2. Orchids have sym-
pathized with the upward trend of prices,
Cattleya Trianae and *C. Percivalliana*
and *Dendrobium formosum* holding the
center of the stage at present. Paper
White narcissi and Roman hyacinths are
in and find a slow call thus far. Receipts
at present include some very choice
spikes of mignonette that sell readily at
\$10 per hundred.

A recent issue of the Brooklyn *Eagle*
devoted a large section of one page to a
profusely-illustrated article on the chrys-
anthemum display at the Brown estate
in Flatbush, where P. Riley, the invin-
cible Flatbush bowler, presides.

Kansas City.

BUSINESS GOOD AND CARNATIONS THE ONLY
ABUNDANT ITEM OF SUPPLY.—SOME GOOD
DECORATIONS.—PERSONAL NOTES.

Stock is scarce, except carnations.
Roses of all sorts are short of the
demand and high in price. Chrysanthe-
mums are on their last legs. As to
violets, Kansas City does not know what
good stock is. Plenty are shipped here
but without their main quality, fragrance.
Beauties are up several notches, but still
have the call. Romans and narcissi are in
market. A goodly number of decorations
are reported for the past week, notably
a large wedding job done by Murray,
wherein some very select stock was used,
such as orchids, valley, *Begonia Gloire de*
Lorraine, the finest of white chrysanthe-
mums and Beauties. The Schley banquet,
given by the Commercial Club, is worthy
of mention. This event occurred at the
Midland Hotel and some thirty-five cases

of southern smilax were used. A miniature battle ship thirty feet long done in canvas and covered with flowers and lights was a novelty. American Beauties to the number of 1,500 were used on the tables. Altogether it was the largest banquet ever given in Kansas City. The approximate cost of menu and decorations exceeded \$4,500.

Lawrence Sweiger, who was formerly Newell's right hand man, has opened a flower shop at 1215 Grand avenue.

Chas. Heite, of Rock-Heite Company, is on an educational tour among the Chicago and Joliet growers.

The Alpha Floral Company has opened a new flower store at 810 Walnut street.

Miss Jennie Murray has moved back to her old stand at 715 Walnut street.

Another new flower store is that of the Misses Kreitz, 1035 Main street.

W.

Worcester, Mass.

SOCIAL ACTIVITIES MAKE BUSINESS BRISK.—NO SURPLUS ANYWHERE AND ROSES SCARCE.—NOTES.

Business has been brisk and teas, receptions and balls have followed each other in quick succession. Chrysanthemums have been used in quantity and show no signs of a surplus. Roses on the other hand show signs of shortening up, especially Bridesmaids. Carnations have been plentiful and of good quality and the demand has been good. Violets are in good supply and selling well, single and double varieties being equally popular.

F. B. Madaus is confined to his home with a mild form of pneumonia and his wife and three children are ill with tuberculosis poisoning, supposed to have been caused by infested milk. From last reports all are on the road to recovery.

There has been an exceptionally good fall for bulb planting and the sale of tulips, hyacinths, narcissi and so forth shows quite an increase over last season.

A. H. L.

OBITUARY.

ALBERT BREITMEYER.

Albert Breitmeyer died at Detroit November 24, aged 77 years. He was born in Germany and fifty years ago came to America in company with his younger brother, John, who died in 1900, both settling at Detroit. John Breitmeyer engaged in floriculture and laid the foundation for the fine business now conducted by his sons. Albert Breitmeyer engaged in gardening and also conducted his business with success until infirmities necessitated his retirement.

JAMES J. HARRIS.

James J. Harris, aged 32, a son of Wm. K. Harris, of Philadelphia, died November 25 of consumption. Deceased did not take an active part in the business although living at home. He had an artistic temperament and has made some very fine paintings of flowers and other subjects. He was also a fine performer on the piano. He spent the past year in Florida in search of health and seemed benefited, but on his return he failed rapidly. He was much liked by all who knew him.

K.

JOHN C. PINKSTONE.

John C. Pinkstone died at his home at Utica, N. Y., on November 16, after an illness of over a year. Mr. Pinkstone was born in Barnstable, England, 49 years ago. At the age of nineteen he came to

America, locating at Washington Mills. Since 1879 he had lived in Utica, where he conducted a small greenhouse establishment and during the summer months sold vegetables and plants. He was a member of Jubilee Lodge, No. 242, Sons of St. George and had been one of its trustees for thirteen years. He was also a member of Oriental Lodge, No. 224, F. & A. M. He belonged to St. Luke's Church and was a member of its Burial Guild. July 17, 1879, he married Miss Ellen Coughlin, of Utica, who survives with two sons, Samuel and Charles Pinkstone, and a daughter, Margaret.

Catalogues Received.

Samuel Bide, Alma Nursery, Farnham, England, nursery stock; Perry Hardy Plant Farm, Winchmore Hill, London, Eng., hardy rock and border plants, roses, etc.; Frederick Roemer, Quedlinburg, Germany, flower seeds; Sluis & Groot, Enkhuizen, Holland, vegetable and flower seeds; Raynbird & Company, Basingstoke, Eng., vegetable, grass and farm seeds; Oregon Nursery Company, Salem, Oregon, fruit and ornamental trees, etc.; P. G. Copyn & Company, Groenekan, near Utrecht, Holland, nursery stock; J. M. Thorburn & Company, New York, seeds; Webster Brothers, Hamilton, Ont., Canada, hardy perennials and shrubs; Souper & Notting, Luxembourg, Europe, roses; Mark T. Thompson, Rio Vista, Va., small fruits; Olsson & Seiders, Austin, Texas, roses; George Stevens, Peterborough, Ont., Canada, wood ashes; Leterlier Son and Company, Caen (Calvados) France, nursery stock; Otto Heyneck, Magdeburg, Germany, chrysanthemums, etc.; Foley Manufacturing Company, Chicago, ventilating apparatus; The King Construction Company, Toronto, Ontario, greenhouse machinery; W. Atlee Burpee & Company, Philadelphia, Pa., seeds; C. Platz & Son, Erfurt, Germany, seeds; F. C. Heine-mann, Erfurt, Germany, seeds; J. C. Schmidt, Erfurt, Germany, seeds.

OMRO, Wis.—The Omro Horticultural Society held its eighth annual chrysanthemum show November 19–21. Besides cut blooms and plants there was a fine display of fruit and a baby show was one of the attractions.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By salesman of first-class stock. HUSTLER, care Am. Florist.

SITUATION WANTED—By an all-around florist; 7 years' experience; sober and willing; west preferred. C. C., care American Florist.

SITUATION WANTED—As working foreman, by first-class grower of roses, carnations, mums and general line of bedding stuff. Address BEAUTY, care American Florist.

SITUATION WANTED—By young man, age 23 with experience in carnation growing; wants steady place in first-class establishment. Strictly sober, steady and good worker. Address N. N., Box 315, Ramsey, N. J.

SITUATION WANTED—By grower; would like to have the growing of roses, carnations, mums, violets and general stock, on medium sized place preferred. Young man, married; not afraid of work. Recommended. Come in thirty days. Address R. M., care American Florist.

SITUATION WANTED—By expert rose grower to take charge of a retail place. Good grower of stock. Illinois or Indiana preferred, (see 31) single. Address G. O. E. BARK, 21 Conewango Ave., Warren, Pa.

SITUATION WANTED—By 1st or middle of April, as working foreman in a large retail place, by a man of large experience, where full charge is given and results expected; can show you a few things. GERMAN, care Am. Florist.

SITUATION WANTED—As working manager, by a man of push and energy, grower of All Beauties, teas, carnations, mums, violets decorative and bedding plants. Only a first-class, large retail place where things are done right and good wages paid. B. B., care Am. Florist.

WANTED—Two young men for palm and fern department. VAUGHAN'S GREENHOUSES, Western Springs, Ill.

WANTED—Single man for general greenhouse work; must have experience. State wages, with board. M. E. O'BRIEN, Sharon, Pa.

WANTED TO RENT—Greenhouses of 20,000 to 25,000 feet of glass; wanted by early spring; no old stock wanted. Address P. W., care American Florist.

WANTED—Herman Meyer to call at the office or write the American Florist, 324 Dearborn street, Chicago, for information to his advantage.

WANTED—An active man of business ability, who is a first-class grower of roses, mums, carnations and general stock. Must be able to manage help and competent to run the business. To such a man with \$2,000 in cash a partnership is offered in long established and flourishing business in Philadelphia. Address CONFIDENTIAL, care American Florist.

WANTED—A married man without children, German-American preferred, to take charge of nursery where the growing of small stock for transplanting is made a specialty. Must understand the propagation of hardy shrubs and evergreens from cuttings, be sober, industrious and well recommended; \$50 per month and a house. A permanent position to the right party. JOS. W. VESTAL & SON, Little Rock, Ark.

FOR SALE—Horizontal tubular boiler 48x15 with plug hat dome and with 39 3/4-in. flues, very suitable for heating hot houses. Apply to WISCONSIN BOX CO., Wausau, Wis.

FOR SALE—An old established greenhouse business; entire plant rebuilt; steam heat. With all the ground or part; also with or without residence. Situated in Cleveland, O. A bargain. Address O. K., care American Florist.

GREENHOUSE For Sale, also Residence Property. 1,100 feet of glass, hot water heater; good prosperous city, population 8,000; no opposition; good location for experienced man. Good reasons for selling. For full particulars, write E. GREENWOOD, LINTON, IND.

WANTED AT ONCE....

ROSE PROPAGATOR who knows his business thoroughly. Must be experienced with cuttings and grafting. Give full particulars, experience in detail, references, wages expected, etc., with application and save time. Address

California Rose Co., Los Angeles, Cal.

FOR SALE, GREENHOUSES

Well established, in good repair, 12,000 ft. glass, fully stocked with fine Carnations, Callas. Smilax; full supply of everything necessary; fine dwelling house; hot water heating; will furnish five-year lease at the time; nine miles from Chicago courthouse. Price \$4,000; three-fourths cash. Good reason for selling. Address E., CARE AMERICAN FLORIST.


FOR SALE OR EXCHANGE.

Fully stocked greenhouses, 20 miles from Chicago; 25,000 feet of glass; steam heat; paying well; part cash, balance good real estate or time to right party. V J 95, Am. Florist.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box. F. O. B. Grand Rapids, Mich. Will sell all or any part. Address

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich



No. 1. \$2.50
 No. 2. \$3.25
 No. 3. \$3.75
 No. 4. \$4.50
 No. 5. \$5.00
 No. 6. \$6.00

Caldwell's Kwality Kounts Brand
Wild Smilax now on hand.

WHEN you want Flowers, any and all kinds, order from DEAMUD. He has in quantity the following:
ORCHIDS, Valley, Violets, Beauties, Tea Roses, Carnations, Chrysanthemums.

J. B. Deamud,
51-53 Wabash Ave., Chicago.

E. H. Hunt,
WHOLESALE....
Cut Flowers
 THE "OLD RELIABLE,"
 76 Wabash Ave., CHICAGO.
Poehlmann Bros. Co.
 Wholesale Growers of
 and Dealers in **Cut Flowers**
 All telegraph and telephone orders given prompt attention. 35-37
 GREENHOUSES: Morton Grove, Ill. Randolph Street CHICAGO, ILL.

The F. R. WILLIAMS CO.
WHOLESALE FLORISTS.
 Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.
 Telephone Connections. CLEVELAND, OHIO.

Bassett & Washburn
 76 & 78 Wabash Ave., CHICAGO.
 Wholesale Dealers and Growers of **Cut Flowers**
 GREENHOUSES: HINSDALE, ILL.

THE Gardeners' Chronicle.
 A Weekly Illustrated Journal.
 ESTABLISHED 1841.
 The GARDENERS' CHRONICLE has been for over sixty years the leading journal of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, the information furnished is of such general and permanent value that the GARDENERS' CHRONICLE is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.
 Subscription to the United States, \$4.20 per year. Remittances to be made payable to H. G. COVE. OFFICE:—
 41 Wellington St., Covent Garden, London, England.

Wholesale Flower Markets

MILWAUKEE, Nov. 27.

Roses, Beauty, long, per doz.	2.50@3.00
" " med. "	1.00@1.50
" " short "	.50@ .75
" Liberty	8.00@12.00
" Bride, Bridesmaid.....	6.00@ 8.00
" Meteor.....	6.00@ 8.00
" Golden Gate.....	6.00@ 8.00
" Perle.....	6.00@ 8.00
Carnations.....	2.00@ 4.00
Violets.....	1.00
Chrysanthemums, 1.00@2.50 per doz.	
Adiantum.....	.75@ 1.00
Smilax.....	15.00
Asparagus.....	65.00
Common ferns.....	.25

PITTSBURG, Nov. 27.

Roses, Beauty, specials, per doz.	5.00@6.00
" " extras "	3.50@4.00
" " No. 1 "	2.00@3.00
" " No. 2 "	1.00@1.50
" Kaiserin.....	4.00@10.00
" Bride, Bridesmaid.....	2.00@10.00
" Meteor.....	4.00@ 6.00
" Liberty.....	4.00@10.00
Carnations.....	1.50@ 3.50
Chrysanthemums.....	6.00@25.00
Lily of the valley.....	4.00@ 5.00
Violets.....	.50@ 2.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50
Asparagus, strings.....	40.00@75.00
" Sprenger.....	2.00@ 3.00

The Cincinnati Cut Flower Co.,
 437-439 Main St. WHOLESALE FLORISTS, CINCINNATI, O.
 Consignments Solicited. Special Attention Given to Shipping Orders.

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Michigan Cut Flower Exchange.
 Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around.
 BRONZE GALAX, \$1.00 per thousand.
 26 Miami Ave., DETROIT, MICH.

THE NICKEL PLATE ROAD
 will afford its patrons an opportunity to take advantage of low rates for Christmas and New Year holidays, by selling tickets at a fare and a third for the round trip to all points on their line, December 24, 25, 31, 1902, and January 1, 1903. Return limit including January 2nd, 1903. Through service to New York City, Boston and other eastern points. Chicago passenger station, Harrison St. and 5th Ave. For further information, address John Y. Calahan, General Agent, 113 Adams St., Chicago. 66

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GALAX LEAVES AND Leucothoe Sprays.
 J. G. LOVEN, MONTEZUMA, N. C.
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 Largest Grower of... In the West. **Cut Flowers**
 Give us an order and we will please you.
 Our Greenhouses at PLEASANT HILL, MO
 Our Store, 906 Grand Ave., KANSAS CITY, MO
 LONG DISTANCE 'PHONE AT EITHER PLACE.
 ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

CINCINNATI, Nov. 27.

Roses, Beauty.....	10.00@50.00
" Bride.....	3.00@ 6.00
" Bridesmaid.....	3.00@ 6.00
" Meteor.....	3.00@ 6.00
" Kaiserin.....	3.00@ 6.00
Carnations.....	1.50@ 4.00
Chrysanthemums.....	4.00@15.00
Lily of the valley.....	4.00
Romans.....	3.00
Paper Whites.....	3.00
Asparagus.....	50.00
Smilax.....	12.50@15.00
Adiantum.....	1.00

ST. LOUIS, Nov. 27.

Roses, Beauty, long stem.....	35.00@50.00
" Beauty, medium stem.....	15.00@25.00
" Beauty, short stem.....	4.00@10.00
" Bride, Bridesmaid.....	3.00@ 8.00
" Golden Gate, Carnot.....	3.00@ 8.00
" Meteor, Perle.....	3.00@ 8.00
Carnations.....	1.50@ 3.00
Chrysanthemums.....	4.00@25.00
Tuberose.....	4.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	12.50@15.00
Asparagus Sprenger.....	1.50
" Plumosus.....	.75@ 1.00

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 A complete line of Wire Designs.

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Specialties.



WHILE our facilities for supplying the staple items in Cut Flowers are unexcelled by any house, we are recognized headquarters for specialties. Give us your standing order. Write or call us up by 'phone when in need of something out of the ordinary. "Right goods at Right prices." Send a postal for our weekly price list.

E. C. ANGLING,

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32-36 Randolph St. Long Distance 'Phones 1999 and 1977 Central. CHICAGO, ILL.

CURRENT PRICES.

ORCHIDS.		
Cattleyas, per doz.		\$6 00
Cypripediums		2 00
BEAUTIES	16-in. stems	5 00
30-in. stems	\$1 00	21-in. stems, 3 00
20-in. stems	2 50	16-in. stems, 2 00
12-in. stems	1 50	6 8-in. stems, 6-8
Brides and Maids		6 00 to 8 00
Meteors and Gates		6 00 to 8 00
Carnations, select		1 50 to 2 00
" " tangles		2 50 to 3 00
Stevia		1 50 to 2 00
Violets, double		1 00 to 1 50
" " single		75 to 1 00
Callas, per doz		1 50
Valley, select		1 00 to 5 00
Asparagus Plumosus, string	.50 to	.75
" " Sprengeri, per 100	3 00 to	4 00
Ferns, per 1000	\$1.50	.20
Galax	1.00	.15
Leucothoe		.75
Adiantum		75 to 1 00
Smilax, per doz		1 25 to 1 50
" " per 100		10 00

Prices subject to change without notice

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CUT FLOWERS

CHICAGO

BOUQUET GREEN

Best quality at lowest rates. We gather our own GREENS and bring by our own boat direct.

Also CHRISTMAS TREES.
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600,000 FEET OF GLASS.

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Special attention given to shipping orders.
Send for price list of supplies.

Southern Wild Smilax

Case containing 50 lbs. \$2.00,
HOLLY, well berried, 50 lb. case, \$2.50.
MACNOLIA FOLIAGE, 50 lb. case, \$2.50.
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Roses and Carnations
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F. F. BENTHEY, Manager.

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Consignments solicited.

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Wholesale Flower Markets

CHICAGO, Nov. 28.

Roses, Beauty, 36-inch stems	5 00
" " 30 " "	4 00
" " 24 " "	3 00
" " 20 " "	2 50
" " 15 " "	2 00
" " 12 " "	1 50
" " 8 to 8 " " per 100	6 00@ 8 00
Liberty	5 00@12 00
La France, Chateaux	5 00@10 00
Bride, Bridesmaid	4 00@ 8 00
Meteor, Golden Gate	4 00@ 8 00
Perle	4 00@ 8 00
Chrysanthemums, per doz., \$1.00@4.00	
Violets	.60@1.50
Carnations	1.50@ 4.00
Lily of the valley	4.00@ 5 00
Asparagus, per string, .50	
Adiantum	.75@ 1 00
Common ferns, per 1000, 1 50	.15
Smilax, per dozen	1 50

Holton & Hunkel Co.

Wholesale Florists,

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WHOLESALE FLORIST.

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Send for weekly price list and special quotations on 1000 Ints.

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We will take care of your orders at reasonable prices. Prompt attention.

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Galax AND Leucothoes.

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1612-18 LUDLOW ST., PHILADELPHIA, PA.
Open from 7:30 a. m. to 8:00 p. m.

Choice White Orchids
IN QUANTITY.

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34 Hawley St., BOSTON.
Telephone 1270 Main.
BEST BOSTON FLOWERS. All Supplies.
An entire floor Devoted to Stock and Manufacturing. Distributing Agent for United States for the wonderful



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Lillian Pond,
FILLED EVERY DAY. PRICE, \$5.00 per 100.

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WELCH BROS., PROPS.
9 CHAPMAN PLACE, Boston, Mass.
15 PROVINCE STREET.

H. C. RIEDEL. F. D. SPICER.

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Commission Florists.

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THE NEW YORK CUT FLOWER CO.
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2034 Madison Sq.

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Fair dealing and prompt returns guaranteed.
Correspondence solicited.
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N. F. McCARTHY & CO.
Best Quality
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and Supplies,
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Wholesale Flower Markets

BOSTON, Nov. 26.

Roses, Beauty, Edgely, extra	25.00@40.00
" " medium	10.00@20.00
" " culls	6.00@ 8.00
" " Bride, Bridesmaid, Meteor	2.00@ 6.00
" " extra	8.00@10.00
Chrysanthemums	6.00@12.00
Carnations	1.50@ 3.00
Lily of the valley	2.00@ 4.00
Adiantum	.75@ 1.00
Asparagus	50.00
Smilax	12.50@18.00

PHILADELPHIA, Nov. 26.

Roses, Tea	2.00@ 4.00
" " extra	4.00@ 8.00
" " Beauty, extra	20.00@ 50.00
" " firsts	12.00@15.00
" " Queen of Edgely, extra	25.00@40.00
" " firsts	10.00@20.00
Carnations	1.50@ 4.00
Chrysanthemums, per doz.	1.50@3.00
Violets	1.00@ 1.50
Lily of the valley	3.00@ 5.00
Asparagus	25.00@50.00
Smilax	12.50@15.00
Adiantum Parlyense	10.00

BUFFALO, Nov. 27.

Roses, Beauty	15.00@30.00
" " Bride, Bridesmaid, Meteor	3.00@ 6.00
Carnations	1.50@ 3.00
Chrysanthemums, per doz.	\$2.00@3.00
Lily of the valley	3.00@ 4.00
Smilax	15.00@20.00
Adiantum	1.00@ 1.50

The Philadelphia Wholesale Flower Market.
Phones, Keystone and Bell.
1224 CHERRY STREET, PHILADELPHIA.

Is now open and ready for business. Consignments of good stock solicited, especially Valley, Violets and Carnations. Commission, 10 per cent and \$50 annual stall rent, payable monthly in advance. Flowers, choice of this market, carefully packed and shipped at short notice. Please mention the American Florist when writing.

Give Us a Trial. We Can Please You.



Roses, Carnations and all kinds of Seasonable Flowers in stock.
WM. F. KASTING, Wholesale Commission Florist,
481 Washington St., Buffalo, N. Y.
Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

Fancy or Dagger Ferns 75¢ Per 1,000.

BRONZE OR GREEN GALAX \$1.00 per 1000.
PRINCESS PINE, \$6.00 per 100 lbs. LAUREL FESTOONING, 4c, 5c and 6c per yard. Princess Pine Festooning, all grades. Pine Wreaths and Laurel Wreaths, all grades for Xmas. Be sure and send your orders in early and you will get the best to be had.



Millington, Mass.
Tel. office, New Salem.

N. Y CUT FLOWER EXCHANGE

Coogan Bldg. 6th Ave. and W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock Every Morning.....
DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

THE KERVAN COMPANY

Southern Smilax; Palmetto and Cycas Palm Leaves, fresh and painted; Roping and Wreaths; Fern, Galax, Ivy and Magnolia Leaves, Leucothoe Sprays; Holly; Mistletoe; Mosses—each in its season, and its the season now for each. The best that grows. We have no other sort. Write for our list of stock with prices.

Telephone, 1519 Madison Sq. 20 WEST 27th STREET, NEW YORK.

Beauties and Valley Leo. Niessen,
IN QUANTITIES.

On and after Sept. 15th will be open from 7 a. m. till 8 p. m. until further notice. WHOLESALE FLORIST, N. W. Cor. 13th and Filbert Sts., Phila.

FLOWERS SHIPPED BY

JOHN I. RAYNOR

ARE THE BEST PRODUCT OF THE BEST GROWERS FOR THE NEW YORK MARKET.

Adiantum Croweanum 49 W. 28th Street, NEW YORK.
Sold here Exclusively. Tel. 1998 Madison Square.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.

Are supplying the most superb stock of FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.

SEND FOR QUOTATIONS.

Walter F. Sheridan,
Wholesale Florist,

Telephone 902 Madison Square.

39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square.



MOORE, HENTZ & NASH

Wholesale Commission Florists,

55 and 57 West 26th St., NEW YORK CITY

Adjoining New York Cut Flower Co. salesroom. Finest Salesroom in the Trade. Inspection Invited. All business, selling or shipping, strictly commission.

VIOLETS. WILLIAM GHORMLEY VIOLETS.

Wholesale Commission

Daily Receiver and Shipper of Fresh Cut Flowers.

Orchids, Roses, Carnations, Valley, Chrysanthemums.

Telephones 2100 and 2200 Madison Square.

57 West 28th Street, NEW YORK CITY.

JOHN YOUNG

Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.

51 West 28th St., NEW YORK.
Tel. 1905 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN NEW YORK CITY FOR

Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

WM. H. GUNTHER,
30 West 29th St., New York.
Telephone 551 Madison Square.

Frank Millang

Open from 6 a. m. to 5. p. m.

Cut Flower Exchange, 55-57 W. 26th St.
Phone 299 Madison Square. NEW YORK.

ESTABLISHED 1872.

JOHN J. PERKINS,
COMMISSION FLORIST,

Solicits Consignments or Shipping Orders. Satisfaction given in both.

Tel. 856 Madison Sq. 115 West 30th St., New York.

Bonnot Bros.

WHOLESALE FLORISTS.

55 and 57 W. 26th St., New York.

OPEN 6:00 A. M.

An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.

Traendly & Schenck

NEW YORK CITY,

38 W. 28th Street, Cut Flower Exchange.
New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

NEW YORK, Nov 26

Roses, Beauty, Edgely, best.....	35.00@51.00
" " medium.....	20.00@31.00
" " inferior.....	5.00@10.00
" Bride, Bridesmaid, Meteor.....	3.00@10.00
" Liberty.....	4.00@12.00
Carnations.....	1.00@ 3.00
Violets.....	.50@ 1.50
Lily of the valley.....	2.00@ 5.00
Lilies.....	8.00@10.00
Chrysanthemums.....	6.00@20.00
Cattleyas.....	35.00@60.00
Dendrobium formosum.....	20.00
Romans, Paper Whites.....	2.00
Smilax.....	8.00@10.00
Adiantum.....	.50
Adiantum Peter Crowe.....	1.25
Asparagus.....	35.00@51.00
" Sprengeri, doz. bun. 2.00@3.00	

RELIABLE AT ALL SEASONS.

Best Flowers.

REASONABLE PRICES.

J. K. ALLEN

Telephone 167 Madison Square.

OPEN AT 6 A. M. DAILY.

106 W. 28th St., NEW YORK.

FORD BROS.

Receivers and Shippers of

FRESH FLOWERS,

111 West 30th St., NEW YORK.
Telephone 157 Madison Square.

REPRESENTING EMINENT GROWERS.

Julius Lang

53 West 30th Street, NEW YORK.

COMMISSION DEALER in FLOWERS

TELEPHONE 280 MADISON SQUARE.

ALEX. J. GUTTMAN,

Wholesale Commission Florist,

A full supply daily of the choicest New York and New Jersey

FLOWERS.

52 W. 29th Street, NEW YORK CITY
Telephone 1738 Madison Square.

A. H. LANGJAHR,

Wholesale Commission Florist,

BEST FLOWERS SHIPPED AT LOWEST NEW YORK PRICES.

19 Boerum Place, Brooklyn, N. Y.

TELEPHONE 939 MAIN.

Hicks & Crawbuck,

WHOLESALE FLORISTS

NEW YORK:

45 West 29th Street.
Tel. 2798 Madison Sq.

BROOKLYN, N. Y.:

108 Livingston Street.
Tel. 3690-3661 Main.

EDW. C. HORAN,

55 WEST 28TH STREET,

Telephone 421
Madison Square.

.....NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.
WALTER P. STOKES, Pres.; C. N. PAGE, First
Vice-Pres.; S. F. WILLARD, Wethersfield, Conn.,
Secy and Treas.

VISITED BOSTON: W. J. Fosgate, of
Santa Clara, Cal.

RAFFIA trade has shown a very con-
siderable increase of late.

A. N. JONES, formerly of Newark, N. Y.,
is now located at Le Roy, N. Y.

VISITED ST. LOUIS: Lester L. Morse
and W. J. Fosgate, Santa Clara, Cal.

CHAS. P. BRASLAN, of San Jose, Cal.,
was at Lawrence, Kans., November 27,
on his way east.

THE demand for first-class holly is
likely to be excellent. Many carload
buyers are abroad.

VISITED CHICAGO: L. C. Rontzahn, of
the McClure Seed Company, Arroyo
Grande, Cal.; H. C. Agnew, of Agnew,
Cal.

THE novelties offered by M. Herb, of
Italy, include *Centaurea rutifolia* pur-
purea, *Myosotis dissitiflora atrocaerulea*
and *Aretotis aspera arborescens*.

KOHLER & RUDEL are offering *Heu-
chera grandiflora hybrida*, in white, pink
and red, with large panicles of flowers
as large as those of lily of the valley.

D. M. FERRY & Co., Detroit, Mich.,
have secured options on a section of
land embracing several farms in Avon
township, New York, which it is intended
to devote to seed growing purposes.

GREEN buyers in Wisconsin who have
purchased without contracts are holding
more stock than the regular average
annual demand from the trade will
absorb. Prices are still fairly upheld by
them but it is more than probable that
bulk green will be cheap at Christmas
time. Much of the surplus will hardly
get down to market in time to be avail-
able for the best trade.

Richmond, Ind.

CLUB HOLDS INTERESTING SESSION AND
ELECTS OFFICERS.—NEW PLANT UNDER-
WAY—NOTES.

The November meeting of the Rich-
mond Florists' Club was held at the
greenhouses of the E. G. Hill Company,
and important business pertaining to the
welfare of the club was transacted. An
amendment to the by-laws abolishing all
fees and dues of membership was carried
unanimously, also that all expenses of
the club be borne by the proprietors of
greenhouses and greenhouse furnishers.
The annual election of officers resulted as
follows: President, Vernon Grave; vice-
president, Joseph Hill; secretary, H. C.
Chessman; treasurer, John A. Evans.
After other routine business, and talks
by those having visited the various
shows, the club adjourned to partake of
a very bountiful oyster supper, furnished
by the host, after which they enjoyed
themselves till a late hour socially and
with games. The next meeting to be at
the Grave's greenhouses, the third Mon-
day in December.

Ground has been broken for another
large plant on the west side. I am
informed that several acres have been
purchased for the purpose, the new con-
cern to consist of Charles Knopf, William
Bachmeyer and George Bulerdick.

H. C. CHESSMAN.

J. C. SCHMIDT

Erfurt, Germany, Wholesale

Seed Grower & Nurseryman

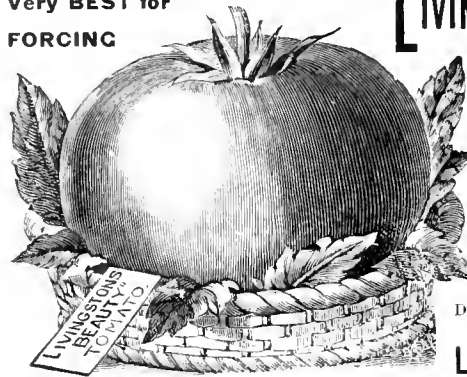
Sends to Seedsmen and Florists the New

Trade Seed Catalogue for 1903

In English language, Free on Application.

Extensive home culture grounds. Choice Quality.

Very BEST for
FORCING



LIVINGSTON'S BEAUTY TOMATO.

Prof. W. J. Green, of the Ohio Experi-
ment Station says:

"I am fully satisfied that Livingston's
Beauty Tomato is the most profitable variety
of all for growing under glass."

Prof. W. B. Alwood, of the Virginia
Experiment Station says:

"Your Beauty Tomato was superb, and as
usual, gave us magnificent fruit. We are
using it now exclusively for winter forcing."

OUR OWN CHOICEST SELECTED SEED.
Pkt. 10c.; Ounce 25c.; 4 Ounces 75c.

Descriptive Catalogue, also Florists' and Market
Gardeners' Wholesale List free on application

Livingston Seed Co., Columbus, O.

GLADIOLI OUR MOTTO: QUALITY FIRST.

We have, however, a sufficient quantity to
supply all demands. Send for Catalogue.

ARTHUR COWEE,
Berlin, N. Y.

"Meadowvale Farm,"
United States Grower and Representative of GROFF'S HYBRIDS.

Long Distance 'Phone 9x.

Berlin, N. Y.

FINE, COOL GROWN FERNS ONE CENT

Pteris Tremula, *P. Hastata*, *Onychium*, *Gymnogramma*, *Lygodium*, *Polypodium*, *Adiantum*, *P.
Sulcata*, *Selaginellas*, *Nephrolepis*, etc. Transplanted singly in cool frames, good stock and liberal
count. Mail orders our specialty. \$1.25 per 100, postpaid. Per 1000, \$10.00.

CLARA & LEY, THUNDERBOLT FERNERIES, SAVANNAH, GA.

Strictly New England
GROWN SEEDS.

SPECIALTIES—Onion (Southport Globes), Turnip
Seed and Sweet Corn, Beet, Parsnip, Carrot,
Cabbage. We can answer all questions without
flinching as to quality and where grown.

The E. B. CLARK CO., Milford, Conn.



Galax Bronze, \$1.25 per 1000; Green,
\$1.00 per 1000. Southern Smilax,
best quality, 50 lb. case \$6.00;
35 lb. case \$4.50; 25 lb. case \$3.75. Leucothoe
Sprays, bronze and green, assorted sizes, \$1.00 per
100. Sphagnum Moss, \$1.50 per bale. Paimetto
Leaves, \$1.50 and \$2.00 per 100.

L. J. KRESHOVER.

110-112 W. 27th Street, NEW YORK CITY.
Telephone call, 597 Madison Square.

Please mention the American Florist when writing.

ESTABLISHED 1802

THORBURN'S
SEEDS

Send for special low prices on
DUTCH HYACINTHS
for forcing or bedding, and
LILIAM LONGIFLORUM.

J. M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

Please mention the American Florist when writing.

OVER 2,000 ACRES IN CULTIVATION.

BRASLAN SEED GROWERS CO.

Growers for the Wholesale Trade Only.

CORRESPONDENCE SOLICITED.

SAN JOSE, CAL.



Receiving and Shipping Seeds. A daily scene after the harvest at the San Jose warehouse of the Braslan Seed Growers Co.

The New and Rare Asparagus Fern of 1902

Asp. MYRIOCLADUS

I am now offering a limited number of the above charming novelty, which has been awarded 11 First-Class Certificates by the leading Horticultural Societies of England, including the Royal Horticultural Society of London, June 24th, 1902; also at Shrewsbury, Wolverhampton and Handsworth Horticultural Societies, etc. It is quite a distinct Novelty, growing 18 to 24 inches high, requires no staking and having four different shades in color, which gives it a very effective appearance and as a pot plant and for decorating purposes it is by far the best Asparagus in cultivation. Good established plants in 5-inch pots, 15s each; 48 for 12. Good established plants in 3-inch pots, 10s each; 45 5s per 12. Packing free. Terms Cash with order or satisfactory reference. **ROBERT GREENFIELD, Jr., F.R.H.S.,** Nurseryman and Florist, Leamington Spa, England.

Surplus Geraniums.

- | | |
|-----------------|---------------------|
| 350 La Favorite | 100 Madam Thilant |
| 160 Jean Vaud | 150 Madam Jaulin |
| 100 Nieheheu | 350 Poitevine |
| 500 Nutt | 1200 Heteranthe |
| | 75 Lemome's Caumile |

2-in pots \$2.50 per 100. \$20.00 per 1000; 250 at 1000 pots. 200 Le Soleil, \$4.00 per 100. Cash.

These are all fine strong plants.
W. SABRANSKY, KENTON, OHIO.
Please mention the American Florist when writing.

CUT RATE ON

GERANIUM CUTTINGS

Single Grant, 75c per 100.
S. A. Nutt, Double Grant, La Favorite. Bonnot, \$1.00 per 100.

Jaulin, Poitevine, Riccard, Mrs. E. G. Hill, Frances Perkins, \$1.25 per 100. Cash or C. O. D.

GEORGE EMMANS, NEWTON, N. J.

Please mention the American Florist when writing.

BUCKLEY'S November Special.

Smilax Do you need Smilax? If so, forward your order at once and we will furnish you extra fine 2 1/4 inch at 50c per 100; \$5 per 1000.

Geraniums The leading and best bedders, Jean Vaud (the pink novelty), \$2.00 per 100. S. A. Nutt (crimson), Alphonse Riccard (scarlet), E. G. Hill, Beate Poitevine (salmon), Mme. Jaulin, \$1.50 per 100; \$14.00 per 1000.

Verbenas Our 20th Century Collection, 25 new mammoth varieties, all labeled, strong plants from 2 1/4-inch, \$1.50 per 100; \$12.50 per 1000.

Asp. Sprengeri Strong, 2 1/2-inch, \$2.00 per 100; 2-inch, \$1.25 per 100; \$10.00 per 1000.

Petunias Ten novelties from Dreer's latest sets, strong R. C. \$1.25 per 100.

Feverfew LITTLE GEM, rooted cuttings, 75 cents per 100.
2-in. \$1.25 per 100; 2 1/2-in., \$2.00 per 100

Marguerites CHRYSANTHEMUM FRUTESCENS, both white and yellow, \$1.00 per 100.

Salvia Two best: St. Louis and Bonfire, 75 cents per 100.

The W. T. Buckley Plant Co., Springfield, Ill.

CYCLAMEN

PERSICUM SPLENDENS GIGANTEUM.

Finest strain in the world, ready for immediate shipment, a splendid stock of plants, well budded, from 3-inch pots, \$6.00 per 100; \$50.00 per 1000; from 3 1/2-inch pots, in bud and bloom, \$10.00 per 100; \$90.00 per 1000.

PAUL MADER, East Stroudsburg, Pa.

Please mention the American Florist when writing.

BURBANK'S Shasta Daisy.

Mailing size plants, \$5.00 per 100; \$40.00 per 1000. 25 at 100 rates, 250 at 1000 rates. Prepaid at above figures. Trade list now ready for 1903.

CALIFORNIA CARNATION CO.
LOOMIS, CAL., U. S. A.

ALWAYS A WINNER!

Governor Wolcott

3,000 stock plants in perfect condition. Order now for January delivery: \$5 per 100; \$45 per 1000; \$200 per 5,000.

Henry A. Stevens Co., East St. Dedham, Mass

Chicago Carnation Co.
Joliet, Illinois.

It is good business policy
to mention the

American Florist

When you write to an advertiser.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. ILGENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

THE spring will see an unprecedented call for garden roses.

NOT in years have nurserymen been favored by so prolonged a season for fall planting.

THOMAS W. BOWMAN, a well-known nurseryman, died at Rochester, N. Y., November 22, after a long illness.

TOPEKA, KAN.—The thirty-sixth annual meeting of the Kansas State Horticultural Society will be held at the state capitol December 29-31.

GUELPH, ONT.—The twenty-fourth annual meeting of the Ontario Agricultural and Experimental Union will be held here, at the Ontario Agricultural College, December 8-9.

THE forty-seventh annual meeting of the Illinois State Horticultural Society will be held at the University of Illinois, at Champaign, December 17-19. There will be, in addition to an attractive programme, a large exhibit of fruits, and many nurserymen will attend because of the presence of several hundred fruit growers.

Apple Growers' Congress.

The annual meeting of the American Apple Growers' Congress was held in St. Louis November 18 and 19, \$250 being awarded as premiums for exhibits, B. Stuart, of Des Moines, having the best and largest display. Several very interesting papers were read and discussed. It was decided to hold the next session in St. Louis in November, 1903. A resolution in support of the Louisiana Purchase Exposition was adopted. H. M. Dunlap was chosen as president of the organization and authorized to act for the body in securing pure food legislation.

Denver.

COOL WEATHER AIDS BUSINESS BUT REDUCES SUPPLY OF STOCK.—LOCAL AND TRADE NOTES OF INTEREST.

A change of weather brought snow and cold, together with a spurt in business, and tended to shorten up the market, leaving everything a little scarce, with the exception of chrysanthemums, which are still plentiful and in good supply for Thanksgiving day. Long-stemmed Beauties are in demand but rather hard to get and shorter stock is not wanted. Bridesmaids and Brides are fine, meeting with very good sale. Paper Whites and Romans are in now but are used mostly in funeral work. Violets have shortened up, while demand on them keeps up, and prices have advanced accordingly. The same is true of carnations; more could be used. A goodly amount of funeral work the past week has kept the market well cleaned up on the poorer quality of stock.

The Florists' Bowling Club rolled its first games in the Commercial League last Thursday and got walloped three straight. With the exception of Gus Benson the team fell down badly, but we expect better scores from now on.

J. A. Valentine is recovering nicely and expects to leave the hospital this week for his home, where after a few weeks rest we expect to see him around again in good shape.

Azaleas at Import Prices

We will supply, as long as stock remains unpotted, Azaleas of the best quality we have ever sent out, stock that we know will give entire satisfaction:

10 to 12-inch crowns, bushy plants.....	\$ 4.50 per dozen:	\$ 35.00 per 100
12 to 14-inch crowns, bushy plants.....	6.00 per dozen:	45.00 per 100
14 to 16-inch crowns, bushy plants.....	7.50 per dozen:	55.00 per 100
16 to 18-inch crowns, bushy plants.....	12.00 per dozen:	90.00 per 100
18 to 20-inch crowns, bushy plants.....	25.00 per dozen:	200.00 per 100
20 to 24-inch crowns, bushy plants.....	36.00 per dozen:	300.00 per 100

DEUTZIAS for FORCING

We are again this season offering our usual fine stock of home-grown Deutzias, these plants are grown on light sandy soil and have a mass of working fibrous roots which makes them equal to pot-grown stock and at a much lower cost.

- GRACILIS—Suitable for 6 and 7-inch pots, 75c per dozen; \$6.00 per 100.
- GRACILIS ROSEA—Suitable for 6 and 7-inch pots, \$1.00 per dozen; \$8.00 per 100.
- LEMOINEI—Suitable for 6 and 7-inch pots, \$1.00 per dozen; \$8.00 per 100.

HENRY A. DREER, Philadelphia, Pa.



Almost half a century of fair dealing has given our products that prominence which merit deserves. We still offer everything of the best for

ORCHARD, VINEYARD, LAWN, PARK, STREET, GARDEN & GREENHOUSE.

Correspondence solicited. Catalogue and Trade List free. 49 years, 44 greenhouses, 1000 acres.

THE STORRS & HARRISON CO., Palmsville, Ohio.

Crimson RAMBLER.

- 5 to 6 feet, extra heavy plants, \$20.00 per 100.
- 4 to 5 feet, \$15.00 per 100.
- 3 to 4 feet, \$12.00 per 100.
- 2 1/2 to 3 feet, \$10.00 per 100.

The Conard & Jones Co., West Grove, Pa.

ALPINE and HERBACEOUS PLANTS.

Finest collection in Europe. Trade list upon application.

Also a large stock of OVAL-LEAF PRIVET, 1 to 10 feet, bushes and standards.

IVIES, Common and Golden, in pots, f. o. b. Liverpool. Cash with order.

STANSFIELD BROS., Southport, England.

ILEX OPACA HOLLY.

Excellent, well graded and well furnished stock in sizes from 6 inches to 3 feet, at from \$6.00 to \$25.00 per 100. Send for our Trade list.

Pinehurst Nurseries, Pinehurst, N.C.



Send to THE MOON

Company

For Trees, Shrubs, Vines Your and Small Fruits.

Descriptive Illustrated Catalogue Free.

THE WM. H. MOON CO. Morrisville, Pa.

FIRST PRIZE FOR

Boston Ferns

WAS AWARDED

GEO. A. KUHL, Pekin, Ill.

Write him for any size you want—2 1/2, 3, 4, 5, 6, 7, 8 and 10-inch.

SPECIAL OFFER FOR SHORT TIME

Only to make room, extra fine lot

MIXED FERNS

from 2-inch pots, strong and well grown, \$3.00 per 100; \$25 per 1000. All good varieties. Do you want a lot of *Cyrtomium Falcatum* at \$3.50 per 100?

BEARD BROS., 1248 W. Fort St., Detroit, Mich.

Fine Grafted ORANGES Bearing Sizes.

- 12 inch, bushy, from 4-inch pots.....\$20.00
- 15-18 inch, bushy, from 4-inch pots..... 30.00

Kin Kans 10-12 in., bushy, from 4-in. pots 20.00

Lemons 12-15 in., bushy, from 4-in. pots.. 20.00

Roses 15-18 in., bushy, from 4-in. pots 30.00

Climbing Clothilde Soupert, strong field-grown..... 10.00

Crimson Rambler, stg. field-grown 7.00

Clematis Apiifolia A fine variety, some-what similar to C. Paniculata, but blooms earlier and lasts longer; strong plants from 3-inch pots.... 8.00

(Not less than 40 of a class at 100 rate.)

Citrus Trifoliata (Best defensive hedge plant.) Per 1000

Strong, 2 year old, field-grown.....\$15.00

Strong, 3 year old, field-grown..... 20.00

Amor River Privet (Better than California Privet.)

18-24 inch, branched..... 15.00

24-36 inch, branched..... 20.00

Not less than 400 of a class at these rates.

Rubbers, Kentias, Phoenix, Latanias, Pandanus, Ornamental Trees and Shrubs in large quantities.

WRITE FOR CATALOGUE.....

P. J. BERCKMANS CO. (Inc.)

FRUITLAND NURSERIES,

Established 1856. AUGUSTA, GA.

Asparagus Plumosus Nanus....

From 5-inch pots, fine, \$3.50 per doz.; \$25.00 per 100.

ASPARAGUS SPRENGERI

good strong, from 5-inch pots, \$1.50 per doz.; \$10.00 per 100.

BEGONIA REX

12 vars., 2-in., 60c per doz.; \$4 per 100.

CENTRAL MICHIGAN NURSERY, Kalamazoo, Mich.



KENNICOTT BROS. CO.

40-42-44 Randolph St., Chicago.

Chicago, Ill., Nov. 29, 1902.—Following are the current prices: **Roses, Maids, Brides**, first quality, 6c to 8c; second quality, 3c to 5c. **Perle**, 3c to 6c. **Meteor**, 6c to 10c. **Liberty**, 6c to 12c. **Carnations**, our selection, \$1.50; Carnations, good to choice, \$2 to \$2.50; fancy, \$3 to \$4. **Valley**, 4c. **Violets**, 60c to \$1.25. **American Beauties** run according to stem from 12c to 50c. **Everything in Season** at Chicago price day of shipment.

W. A. HAMMOND,

Richmond, Va.

**Wholesale
Florist.**

**Roses, Carnations,
Chrysanthemums, Etc.**

WHOLESALE

Cut Flowers

Florists' Supplies, Seeds, Etc.
Galax and Leucothoe, Wild Smilax.

Special attention given to shipping orders.
Long distance 'Phones, Main 584 and 748.

J. M. McCullough's Sons

316-318 Walnut St., Cincinnati, O.

PANSIES

Roemer's Superb Prize Pansies.

STRONG, FINE STOCKY PLANTS,

Mixed colors, by mail, 75 cents per 100; \$3.00 per 1000; per 10,000, \$25.00.
Large transplanted plants, in bud and bloom, \$1.25 per 100. \$10.00 per 1000.

CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

PANSIES

Finest strain of Giant Mixture from best European growers, strong stock for transplanting in cold frames or houses. Price per 100 by mail, 50c; per 1000 by express, \$2. **ENGLISH DAISY** in colors by mail, per 100, 35c; by express, per 1000, \$2.00. **SWEET WILLIAM**, by mail, 50c per 100.
J. P. FRYER, 10211 Union Ave., Chicago, Ill.

WIETOR BROS.

Wholesale Growers of

Cut Flowers,

51 Wabash Avenue, CHICAGO.

WITH one of the largest ranges of glass in the world, devoted exclusively to cut flowers, we produce first grade stock in such large quantities that we can fill orders at all times.

BEAUTIES, ROSES, CARNATIONS.

Our stock was never finer than at present. Beauty is our specialty, of which we grow 60,000 plants, 60,000 Brides, Maids and Meteors; including Liberty. La France and Ivory of choicest quality. 160,000 Carnation Plants on benches, all best sorts. Buy of the grower and get fresh stock at lowest market rates.

CURRENT PRICES.

Subject to change without notice.

AMERICAN BEAUTY		Per Doz.
Extra long stem	\$5.00 to	\$6.00
24-inch stem	3.00 to	4.00
20-inch stem	2.50 to	3.00
15-inch stem		2.00
12-inch stem		1.50
8-inch stem		1.00
		Per 100
Bride	\$4.00 to	\$8.00
Bridesmaid	6.00 to	8.00
Meteor	6.00 to	8.00
Golden Gate	6.00 to	8.00
Perle	4.00 to	6.00
Ivory	5.00 to	10.00
Liberty	6.00 to	12.00
La France	6.00 to	12.00
Carnations, fancy	2.50 to	3.00
ordinary	1.50 to	2.00
All other stock at lowest market rates.		

**Lily of the Valley
From Cold Storage**

It pays to grow Cold Storage Valley for Xmas, New Year and January. They bring flowers and foliage without much trouble and special arrangements. Grow them as cool as possible and without bottom heat. My stock is in excellent condition and will give satisfactory returns.

\$15.00 per 1000; Case of 2,500, \$35.00; per 100, \$1.75.

Headquarters for Finest Cut Valley.

H. N. BRUNS, 1409 W. Madison St., CHICAGO.

Please mention the American Florist to our advertisers.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

At New York.

On Monday evening, November 24, the following phenomenal scores were rolled by the magnates of the New York florists' bowling fraternity. Wonder whether they will ever overcome their native bashfulness sufficiently to duplicate the performance when there is anything at stake and the persistent Philadelphians, for instance, are in the mix-up:

Player	1st	2d	3d	4th
Sebrocht	157	146	165	221
Lang	187	195	185	181
Traendly	163	170	136	110
Mansfield	178	162	158	197
Thielman	180	187	177	220

At Chicago.

In the Illinois league the Florists met the Ansons in a postponed match and fell in defeat, the Ansons in their first game coming close to the record for five-man teams. Their figure was 1037 and the record stands at 1103. The complete score follows:

FLORISTS				
	1st	2d	3d	4th
Bullbrocht	159	184	167	510
Hauswirth	156	198	157	511
Sterrett	168	162	172	52
Asmus	186	157	161	504
Winterson	174	166	191	531
Total	843	867	848	2558
ANSONS				
	1st	2d	3d	4th
Bangart	233	24	236	673
Trapp	203	215	207	625
Berlin	191	192	170	553
Hasselhuhn	204	197	179	580
Clineh	206	161	177	513
Total	1037	968	969	2974

The Illinois team, of which Joseph Foerster, of George Reinberg's is a member, holds the season's record, made November 17, in the Chicago league. Their total was 1101, within two points of the world's record, and was made up as follows: Foerster, 232; Cluever, 244; Morrison, 172; Blaul, 252; Rogman, 201.

Minneapolis.

STOCK SHORT AND PRICES ADVANCE SHARPLY.—LOCAL NOTES OF VARYING INTEREST.

In the seven days before Thanksgiving prices advanced to an exceedingly stiff figure, caused by continuous dark weather, resulting in a shortage in all lines of stock. Chrysanthemums are about finished, and the main varieties of these were Appleton and Eaton, which were grown heavily by most of the florists, with the result that other good sorts realized comparatively better prices.

John Monson had a large decoration at the West Hotel, the other day, in which ten cases of wild smilax were used. Rice Brothers report a rapidly widening call for this article.

Ralph Latham, with Wm. Donaldson & Company, report a good trade the last week, topped with some good decorations.

Frank Kindler, of St. Cloud, was a recent visitor. C. F. R.

WILMSTON, N. D.—M. Bartholomew, formerly of Excelsior, Minn., is planning to engage in business here in the spring, building a range of greenhouses.

LILLIAN POND A Large and Fancy White.

Unlike most fancies it is free and continuous. Starts in to bloom early, sending out large flowers on long stems. It is a strictly fancy flower at all times and commands top notch prices. Order at once and you will not regret it. PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00. Orders booked now for February delivery. S. J. REUTER, WESTERLY, R. I.

Miss Louise Faber The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet 6 inches to 4 ft. Flowers are of a beautiful pink shade, similar to a well colored Bridesmaid rose and average 3 to 3 1/2 INCHES. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for FEBRUARY delivery from now on. FICK & FABER, SAN MATEO, CAL.

Geraniums ROOTED CUTTINGS.

S. A. Nutt, La Favorite and M. Bruant, \$1.25 per 100; \$11.00 per 1000. Perkins, Poitevine, Riccard, Heteranthe, E. G. Hill, etc., \$1.50 per 100; \$12.50 per 1000. Jean Viaud, \$2.00 per 100. The above all well rooted. Express prepaid in United States.

DesMoines Plant Co., 513 38th Street, DesMoines, Iowa.

All The Best CARNATIONS

The Leading Novelties of 1903. The Best Varieties of 1902. All the Standard Varieties. Order your Rooted Cuttings NOW.

GEO. HANCOCK & SON, GRAND HAVEN, MICH.

Pansies Worth Raising.

Strong plants, \$4.00 per 1000; \$2.50 per 500; \$1.00 per 100, f. o. b. express here. Cash with order.

CHR. SOLTAU, 199 GRANT AVENUE, JERSEY CITY, N. J.

HOLLY!

FINEST THAT CAN BE PUT UP. Car loads a specialty. CHAS. E. BROWN, Pack and Dealer, BRIDGEVILLE, DEL.

W. Z. PURNELL, SNOW HILL, MD., Dealer in

Green Sheet Moss, \$1.50 per bbl.; 5 bbls., \$6.25
Green Laurel, 2x2x4 ft. case, \$3.00; 5 cases, \$12.50
Long Needle Pines, 2x2x4 ft. case, \$1.50
Holly select, 3-4 ft. branches, case \$9; 5 cases, \$3.75
Mistletoe, on branches, case, 5 bbls., \$5.00
Cedar Branches with Berries, case, \$3.00
Cash or satisfactory reference from unknown parties.

M. L. Henderson OF LAURELBRANCH, N. C.

is located in the mountains of North Carolina, where as fine a galax leaf grows as grows in the world (green or bronze). Price given on application. Wholesale trade solicited.

Please mention the American Florist when writing

Order Early

Before You Come Too Late!

Flowering and Decorative Plants for Christmas and New Year.

Azaleas, in bloom, 75c, \$1.00, \$1.25, \$1.50, \$2.00, \$2.50, \$3.00 and \$4.00 each; also by the dozen, 50 Standards of Yervanema at \$5.00 each; very fine. Primula Obconica, in bloom, \$1.50 per dozen. Erica Vilmoreana, exceptionally fine, flowered this year, 50c, 75c, \$1.00, \$1.25, \$1.50, \$1.75, \$2.00, each; also by the dozen. Some ready now. Erica Regerminans, new, very fine, white, tinted lavender, sweet scented, 25c, 35c, 5 c, 75c and \$1.00 each; also by the dozen and 100. Some ready now. Erica Fragrans, white with brown center, 75c, \$1.00, \$1.50, \$2.00 and \$2.50 each; also by the dozen and 100. We grow for Christmas this season two 100-foot houses of Ericas. We have a limited stock of Erica Regerminans in full bud which can easily be grown to bloom for Christmas. They are showing color already. For the Japanese little fancy pots, etc., miniature follows, 3-inch pots, at \$10.00 per 100. Jerusalem Cherries, well berried and colored, fine bushes, \$4.00 and \$5.00 per dozen. Selected stock, \$6.00 per dozen. Araucaria Glauca, each \$1.00, \$1.25, \$1.50; also per dozen. Public calls them Christmas trees. Araucaria Excelsa, each, 75c, \$1.00, \$1.25; also per dozen. Public calls them Christmas trees. Large Daisy Plants, in bloom, each \$1.50 and \$2.00. Good for filling Conservatories. Also by the dozen. Boston Ferns, 50c, 75c, \$1.00, \$1.25, each. Fruit-d Orange, only a few at 25c, 75c, \$1.00 and \$1.50 each. Not by the dozen.

SPECIAL NOTICE.

As we have to pack exceptionally carefully to prevent freezing, add one dollar to your order for case and packing up to \$25.00; over that add \$2.00.

Cash must accompany all orders.

Dormant plants of all the above flowering stock can be had also, for parties wishing to grow plants into bloom themselves for later sale. For these we make no charge for packing.

Write for illustrated catalogue, which we will send free of charge.

Palm in all sizes by the 100. Ericas a Specialty.

Anton Schultheis, College Point, Queens Borough, NEW YORK.

L. B. BRAGUE, Hinsdale, Mass.



Hinsdale, Mass.

WHOLESALE DEALER IN

Christmas Trees AND Baled Spruce

FOR CEMETERY USE.

Special attention paid to furnishing in car-load lots. Write for price list and terms.

ALSO WHOLESALE DEALER IN EVERGREENS, CUT FERNS, SPHAGNUM MOSS, Etc., Etc.

Hardy Ferns..

Everything and anything in Florists' Hardy Supplies at lowest prices. Estimates on large orders on application. Prompt delivery.

BOSTON FERN CO., 14 Brattle St., BOSTON, MASS.



HOLLY and ..GREEN

VAUGHAN'S XXX HOLLY.

We maintain the highest grade Holly Branches in the market. Every case personally inspected by our own representatives; men who gather and pack our Holly are well experienced. While other shippers sometimes handle as choice Holly as Vaughan's XXX Brand, yet ours has averaged THE BEST one year with another. Our price is about the same, while our values are more than **DOUBLE**. Per Case, \$5.00. For larger lots write. Burlap lined, for Pacific Coast shipments, 50 cents extra.



VAUGHAN'S BOUQUET GREEN AND WREATHING.

We are pioneer headquarters on this stock, controlling same from reliable first hands of long experience. We can save you money. Our stock this season, while in moderate supply only, is from best sources, largely Indian picked and all late picked, avoiding the warm drying weather in October. Write or wire for latest market prices.

Wreathing.

Beginning about December 1, we carry two grades regularly in stock in large lots, and will make closest prices in 20 yard coils. Per 100 yds., \$3.00 to \$5.00.

Vaughan's Seed Store, NEW YORK.
CHICAGO.

Specialties for Xmas

- Select Delaware Holly, per case, \$5 00; 5 cases, \$22.50.
- Select Southern Holly, per case, \$4.00; 5 cases, \$18.00.
- Fresh picked Bouquet Green, case, \$5 00; 5 cases, \$22.50.
- Bouquet Green Wreathing, per 100 yds., \$3 00; 500 yds., \$13 50; 1000 yds., \$25.00.
- Ilex, Red Berries, per case, \$2 00; 5 cases, \$8.00.
- Wild Smilax, 25 lb. case, \$3 00; 35 lb. case, \$4.00; 50 lb. case, \$5 00.

Holly Wreaths, Green Wreaths, Galax Leaves, Magnolia Leaves, Leucothoe Sprays, Poinsettias, Smilax, Asparagus, Ferns,

CUT FLOWERS

AND EVERYTHING FOR THE HOLIDAY TRADE.
SEND FOR COMPLETE XMAS PRICE LIST.

McKellar & Winterson,
45-47-49 Wabash Ave. Tel., Main 1129. CHICAGO.

WANTED,
1000 La France Roses
Field-grown or pot plants. Must be strong and cheap. What have you to offer? Also want
2000 FEET 1 to 2-Inch PIPE
second-hand must be in good condition.
W. H. WATSON, LAPEER, MICH.
FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)
Write, Wire or Phone the Introducers,
Caldwell The Woodsman Co., Evergreen, Ala.
or their agents: L. J. Kreshover, New York; J. B. Deamud, Chicago; H. Bayersdorfer & Co., Philadelphia; W. F. Kasting, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.
Please mention the American Florist when writing.



Order Direct From
Headquarters.
New Crop of Bronze and Green
GALAX

\$1.00 per 1000 in 5000 lots.
A No. 1 quality.
Dagger and Fancy Ferns,
\$1.00 per 1000. A 1 quality.

Laurel Festooning, good and full, 5 and 6c a yd.
Princess Festooning, made round, 5 and 6c yd.
Laurel Wreathes, made good and full at market prices.
Southern Smilax, \$4.00 and \$7.00 per case. Selected stock.

Sphagnum Moss, 50c per bag; \$1.00 a barrel.
All orders by mail, telephone or telegraph will receive our personal attention and prompt delivery. Telephone long distance 2618 Main.

HENRY M. ROBINSON & CO.
32-34-36 Court Sq., Boston, Mass.

VINGA VAR., E. C. ENGLISH IVY, E. C. 75c. IVY LEAVES 30c per 100 delivered. **HYDRANGEA OTAKSA** for 6 or 8-in. pots, 10c; for large tubs, 50c. Cash or C. O. D. **J. H. DANN & SON,** Westfield, N. Y.

Mistletoe

Strictly Fancy, Well Berried
North Carolina Mistletoe.

\$2.60 per bushel case; two cases, \$5.00. F. O. B. any express point east Mississippi river; Canadian points, \$2.75. Orders must be received not later than Dec. 5. Cash with order. Remit by express or P. O. Money Order or certified check.

PARKSLEY NATIONAL BANK.
Parksley, Va., Nov. 10, 1902.

The undersigned has known P. C. Squires for a long term of years and he is in every way a thoroughly reliable man. Very sincerely,
L. L. DERICKSON, Pres.

P. C. SQUIRES, Elizabeth City, N. C.
Please mention the American Florist when writing.

Providence, R. I.

TRADE DECLINES PREVIOUS TO THANKSGIVING.—CHRYSANTHEMUMS ARE GONE.—VARIOUS LOCAL NOTES.

With the exception of Thanksgiving, business has gradually declined in the past few weeks. Especially has this been true of design work. Chrysanthemums are gone. With few exceptions this has been a fine year for the chrysanthemum grower. For the holiday trade there remained some Eaton, Jones, Lincoln, Mrs. Murdock and Maud Adams. Carnations and roses were scarce and had been for some ten days. One large chrysanthemum grower states that he found a larger demand for a flower at \$1 per dozen, wholesale, and that beyond \$1.50 it was hard to interest the majority of buyers. Violets are in regular demand at 50 cents per hundred, wholesale. Carnations are quoted at \$1.50 to \$2 per hundred for extra good stock.

Macnair had a big lot of flowers on exhibition the Saturday previous to Thanksgiving but the heavy rain dampened his ardor and the public inclination also.

Ernst Carl is growing two pink seedling carnations extensively this fall. One is very much after the order of Thomas Cartledge for color. They are vigorous.

Alexander Millar, formerly manager of the Rhode Island Greenhouses, is reported to be again identified with that range.

M. J. Leach & Sons, of Pawtucket, have been having a heavy run of design work. They now grow most of their own stock.

Everybody has Lawsons this year, and they are sold many times at regular rates.

Mrs. Walter Nichol, who has been quite ill, is now out of danger.

Good galax leaves are in demand, but not easy to obtain. M. M.

LANSING, MICH.—The Secretary of State has licensed the incorporation of the Manistee Floral Company, of Manistee, capital stock \$5,000.

New Fancy Carnation "TIGER"

Color, orange, striped pink, effect of Sunrise rose. Size, 2½-3½-inch, stem 2-3 feet, straight as a wire. Habit, every shoot going to flower at once, dark green foliage; no supports necessary. Calyx, extra strong, seldom splits. Flower, type of Mayor Pingree.

Notes, it is an early, continuous and free bloomer. Shown and won prizes at Kansas City, New York and Baltimore this fall.

Be your own judge. Sample ½ doz for 50c prepaid. The 50c you can deduct from your first order. 12 for \$1.50; \$10.00 per 100; \$75.00 per 1000. 25 at 100 rate, 250 at 1000 rate. 10,000 ready Jan. 1st.

HENRY EICHHOLZ, Waynesboro, Pa.

Chrysanthemums

Large Strong Stock Plants From Bench.

Adrian, 35c each; \$3.00 per dozen. C. Holst, Honesty, Prosperity, Providence, 25c each, \$2.00 per 100. T. Eaton, Orizaba, Mrs. Chamberlain, Maud Dean, Chadwick, Childs, Appleton, Lady Roberts, Liberty, Monrovia, \$1.50 per doz.; \$8.00 per 100. Mrs. E. D. Smith, White Bonnafton, Bergmann, H. A. Parr, Willowbrook, Oct. Sunshine, Merry Monarch, Robt. Halliday, Polly Rose, Bonnafton, Glory of Pacific, R. H. Pearson, G. S. Kalb, Lady Harriett, Ivory, Adele, The Queen, J. K. Shaw, Mrs. J. Jones, \$1.00 per doz.; \$6 per 100. 6 plants of 1 variety at dozen rates; 25 at 100 rates.

H. WEBER & SONS, OAKLAND, MD.

Mum Stock Plants

Robinson, Merry Xmas, Wanamaker, Monrovia, Bassett, Lincoln, Willbird, Murdock, Kalb, Bonnafton, Childs, Halliday, Appleton, Sunderbroch, Perrin, Pacific, \$4.00 per 100.

Eaton and Chadwick, \$6.00 per 100.

JOHN BROD, 349 W. North Ave., CHICAGO.

YELLOW EATON

GOOD JUDGES pronounce it the most valuable commercial Chrysanthemum to be introduced in the spring of 1903. Its color captivates everybody and it has all the other good qualities of Timothy Eaton, without the coarseness sometimes attributed to that variety. \$5.00 per doz.; \$30 per 100. Delivery of young stock, March 1, 1903.

ROBERT CRAIG & SON, Market and 49th Streets, PHILADELPHIA, PA.

ENCHANTRESS

THE GOLD MEDAL WINNER, having defeated all comers at Madison Square Garden and at Kansas City, now reigns supreme.

Having ordered a large quantity, I am still in a position to book orders for February delivery. Don't delay if you want any.

MRS. E. A. NELSON Has proved all we claimed for it—being free and continuous and ahead of its rivals in pink.

Cuttings guaranteed to be absolutely strong and healthy. January and February delivery.

PRICE, \$6 PER 100; \$50 PER 1000.

S. S. SKIDELSKY, 708 N. 16th St., Philadelphia, Pa.

A. N. PIERSON

CROMWELL, CONN.

ROSES, CARNATIONS,

Chrysanthemums, Etc.

THE YELLOW EATON.

Price list for 1903 now ready and will be mailed on application.

STOCK Chrysanthemums, \$6 a 100; 80c a doz. Well furnished with cuttings.

WHITE: Early, Fitzwygram, Bergmann; **Midseason:** Queen, Robinson, Ivory; **Late:** Jones, **YELLOW:** Early, Willbird; **Late:** Bonnafton, Wedding. **PINK:** Early, Pacific; **Midseason** and **Late:** Morel, Perrin, Maud Dean. Special and scarce kinds:—Chadwick, white; Childs, red; Appleton, yellow, \$8.00 per 100; \$1.25 per dozen.

ROSES, strong forcing stock, 3-in. Brides, Meteors, Golden Gates, \$4 per 100, \$35 per 1000. 2-in. Brides and Maids, \$2 per 100. **Choice Asparagus Plumosus** for Christmas, 4-in., fine, \$15 per 100; 5-in., \$25 per 100.

W. H. CULLETT & SONS, LINCOLN, ILL.

CHRYSANTHEMUMS, Stock Plants. White—Ivory, Mrs. Robinson, Mrs. J. Jones; Pink—Mrs. Perrin, Helen Bloodgood; Yellow—Modesto, Jones, Lincoln, \$1 per doz.; \$8 per 100. Col. Appleton and Timothy Eaton, \$1.50 per doz.; \$12.00 per 100.

Seattle Floral Co., 4th and Denny Way, Seattle Wash.

'MUM

Stock Plants, Extra Fine.

TIMOTHY EATON. GOLDEN WEDDING.
XENO. OCTOBER SUNSHINE.
WHITE JONES. YELLOW JONES.
SNOW QUEEN. COL. APPLETON.
\$8.00 per 100; \$1.50 per doz.

BASSETT & WASHBURN,

76-78 Wabash Avenue, CHICAGO, ILL.

Stock 'Mums.

THREE BEST EARLIES:

MONROVIA, Yellow.

Glory of Pacific Pink.

White **POLLY ROSE**

Also all other commercial varieties at \$5.00 per 100. Cash please.

Carl Hagenburger, W. Mentor, Ohio.

STOCK Chrysanthemum plants, strong and healthy, full of young growth, of the following varieties: Fitzwygram, white and pink Glory of Pacific; Monrovia and Robt. Halliday, two best early yellows; Kalb, Willowbrook, Bergmann, J. K. Shaw, October Sunshine, Fee du Champsaur, Ivory, Bonnafton, Col. Appleton, Holst, Evangeline, Viviani-Morel, Chas. Davis, Mongolian Prince, Intensity, H. A. Parr, Mrs. Perrin, E. D. Smith, Eaton, Pennsylvania, Philadelphia, Arab, Adula, Helen Bloodgood, T. L. Park, Chadwick, F. B. Hayes, White Bonnafton, Yanoma, Rieman, Walleroo, R. Hooper Pearson, Golden Beauty, Superba, Goldmine, Golden Wedding, Malcolm Lamond, Childs, Mrs. Weeks, etc., 10c each; \$1.00 doz. **GUNNAR TEILMANN, Marion, Ind.**

Please mention the American Florist when writing.

Chrysanthemums

Mlle. Marie Liger

The sensational pink variety from France. Made a splendid record at the Fall shows. Blooms Oct. 20; immense in size.

R. E. Richardson

The highest, brightest shade of pink yet produced.

Yellow Eaton

Magnificent yellow for either show or commercial purposes.

COLUMBIA

A beautiful light pink of the build of Chadwick.

All four of the above at 50c each; \$5 per doz; \$30 per 100. Let us book your order for early delivery 1903.

We have a grand set of novelties from France, some notable English prize winners and a phenomenal set of Australians, which you cannot afford to be without if you exhibit. We offer field plants of the following for immediate delivery—field stock gives the best results for propagating purposes:

Opah	Polar Queen	Lavender Queen	Halliday	Polly Rose	Chestnut Hill
Oresco	Bentley	Shilowa	Mrs. E. G. Hill	M. Lamond	H. Bloodgood
Edgar Sanders	Calvat of '99	Yanariva	Pink Ivory	Lady Fitzwygram	Mary Hill
Le Fakir	Miss Jesse Cottee	Col. Appleton	Orizaba	Yellow	Mrs. Murdock
Adrian	Ville de Bordeaux	Eaton	Black Hawk	Mayflower	Bruant
		Bonnaffon	Casco	Nagoya	Quito

AT 25 CENTS EACH.

THE ABOVE AT \$6.00 PER 100.

Lady Harriett Kate Broomhead Mme. X. Rey Jouvín at \$8 00 per 100.

The E. G. Hill Co.

RICHMOND, INDIANA.

ROOTED CARNATIONS Ready

	Per doz.	100	1000
Gov. Wolcott, white, 1902.....	\$.60	\$4.00	\$35.00
Alba, white, 1902.....	.60	4.00	35.00
Golden Beauty, yellow, 1902.....	.60	4.00	35.00
Violanina, variegated, 1902.....	1.25	9.00	75.00
Mrs. Palmer, scarlet.....	.60	4.00	35.00
Mrs. Higinbotham, light pink.....	.60	4.00	35.00
Apollo, scarlet.....	.60	4.00	35.00
Sella, Dorner's variegated.....	.60	4.00	35.00
Dorothy, pink.....	.50	3.00	25.00
Gov. Roosevelt, maroon.....	.35	2.50	20.00
Norway, white.....	.30	2.00	15.00
Lorna, white.....	.30	2.00	15.00
Gold Nugget, yellow.....	.30	2.00	15.00
Eldorado, yellow.....	.15	1.00	10.00
Gen. Maceo, maroon.....	.15	1.00	10.00

Unrooted cuttings at one-half price.
Asparagus Sprengeri from flats \$1.00 per 100; \$7.50 per 1000. 25 at 100 rates; 250 at 1000 rates. Cash with order. Express prepaid.

WESTERN CARNATION CO., LOOMIS, CAL.

MURPHY'S WHITE

CARNATION, ROOTED CUTTINGS, \$6 per 100; \$50 per 1000; \$40 per 1000 in 10,000 lots.

CUT BLOOMS of carnations in quantity.

WM. MURPHY,

Phone Main 4411. 130 E. 3rd St., Cincinnati, Ohio.

20,000 Mrs. Fisher CARNATION

for summer blooming; rooted cuttings or 2-inch pots. Write

GEO. A. KUHL, PEKIN, ILL.

Pansy Plants.

MME. PERRET, the finest strain on the market, large plants that will bloom soon at 50c per 100; \$3.50 per 1000; 3,000 for \$10.00.

J. C. SCHMIDT, BRISTOL, PA.

Rooted Carnation Cuttings

NOW READY.

	Per 100	Per 1000		Per 100	Per 1000
Alba, white.....	\$4.00	\$35.00	Chicot, white.....	\$3.00	\$25.00
Golden Beauty, yellow.....	4.00	35.00	Gov. Roosevelt, maroon.....	2.50	20.00
Cressbrook, white.....	4.00	35.00	Prosperity, white-splashed pink	2.50	20.00
Mrs. Palmer, scarlet.....	4.00	35.00	Norway, white.....	2.00	15.00
Mrs. Higinbotham, light pink.....	4.00	35.00	Lawson, pink.....	2.00	15.00
J. H. Manley, scarlet.....	4.00	35.00	Morning Glory, shell pink.....	2.00	15.00
Viola Allen, variegated.....	4.00	35.00	Queen Louise, white.....	2.00	15.00
Gaiety, fine variegated.....	4.00	35.00	Crane, scarlet.....	1.00	10.00
Harry Fenn, crimson.....	4.00	35.00	Mermaid, salmon, fine.....	1.00	10.00
Apollo, scarlet.....	4.00	35.00	Armazindy, variegated.....	1.00	10.00
Dorothy Whitney, yellow.....	4.50	40.00	Eldorado, yellow.....	1.00	10.00
Mrs. Joost, pink.....	1.00	10.00			

UNROOTED CUTTINGS AT HALF ABOVE PRICES.

TERMS CASH. We prepay express charges. If plants are not satisfactory, on arrival, return at once and we will pay return charges and refund your money. Our cuttings are grown OUT DOORS and rooted WITHOUT HEAT and are therefore strong and hardy and free from disease. SEND US ONE DOLLAR and we will mail you SAMPLES at HUNDRED RATES. Orders booked for future delivery.

Giant Flowering Pansy Plants, mixed, \$3.00 per 1000.
Marie Louise Violets, \$3.00 per 100; \$25.00 per 1000.

ALL CHARGES PREPAID.

LOOMIS FLORAL CO., Loomis, Cal.

Please mention the American Florist when writing

FIELD-GROWN Carnation Plants

Potted and grown in 4-inch pots and just right to plant where your chrysanthemums have been.

JOOST, ELDERADO, PORTIA, JUBILEE, IRENE, MACEO, CENEVIEVE LORD, MRS. BERTRAM LIPPINCOTT, MARQUIS, Price, \$4.00 per 100.

J. L. DILLON, BLOOMSBURG, PA.

PANSIES The Jennings Strain.

Small plants, \$4.00 per 1000, by express. Large plants, ready to bloom, \$1.00 per 100; \$8.00 per 1000. Seed, \$1 pkt.; \$5 per oz. Cash with order. E. B. JENNINGS, Lock Box 264, Southport, Conn. Grower of the Finest Pansies.

Please mention the American Florist when writing.

IMPERIAL PANSY

Finest Giant Flower in all shades and colors, separate or mixed, \$4.00 per 1000.

CINERARIA nana hyb. gigantea, Benary, Cannell and Sutton's strains, all giant flowered and dwarf or semi-high, the finest in market, 2 1/4-in., \$2 per 100. Cash please. Shellroad Greenhouse, Grange, Baltimore, Md.

Please mention the American Florist when writing.

Columbus, O.

NEW FIRM HAS GOOD STOCK TO SHOW.—
VARIOUS NOTES.

It is a treat to any commercial florist to visit the Fifth Avenue Floral Company, of this city, a comparatively new plant of about 20,000 square feet of glass owned by J. D. Siebert, C. K. Siebert and G. H. Woodlow. While all three proprietors will be found hard at work, the management is left to J. D. Siebert. Upon entering this place one is confronted with a clean lot of vigorous stock, especially roses and carnations, and that these three boys are amply rewarded for their hard labor is quite evident.

Mr. Heller, of New Castle, Ind., was among the callers this week, bringing with him some cut blooms of the new yellow rose, F. Deegen.

There was a scarcity of stock for Thanksgiving, but a considerable quantity of late chrysanthemums helped out.

CARL.

Long Beach, Cal.

Mrs. C. C. Lowe, of the Alamitos Nursery, has built a house 20x100 for carnations for winter bloom. There is a propagating house along the north side and a boiler and potting shed at the west end. The plants are looking fine now and are beginning to give blooms with good stems. They grow a great many palms out in the field, also dracenas. Phoenix Canariensis is in great demand here. The city is experiencing quite a boom at present.

CORFU, N. Y.—Harry Fishell has fitted up his boilers for burning either natural gas or wood.

ROOTED CUTTINGS OF

ROSES

Now ready. Write us your wants.

BOSTON FERNS, in 2½, 3, 4, 5, 6, 7, 8 and 10-in. STOCK PLANTS of CHRYSANTHEMUMS. GERANIUMS in 2½-inch pots. SMILAX, PLUMOSUS and SPRENGERI. CINERARIAS, in 4-in. pots, extra nice plants. CUT FLOWERS, Roses, Carnations and 'Mums.

Write Geo. A. Kuhl, Pekin Ill.

Boston Ferns,

2, 3, 5-inch.

CHRYSANTHEMUMS,
Stock Plants.

ALL THE STANDARD VARIETIES.

For Prices on above Write

Geo. L. Miller, Newark, Ohio.

The Great SHASTA DAISY

Flowers pure white, nearly a foot in circumference, long stiff stems, good cut flower, hardy as an oak. Strong plants, \$1.00 per doz. by mail; \$6.00 per 100 by express. Small, 75c per doz. Spotted Calla bulbs, \$2.00 per 100.

S. J. CALLOWAY, EATON, OHIO.

ORCHIDS!

FOR SALE ABOUT FIFTY

Odontoglossum Crispum,

Fine healthy established plants of blooming size at \$1.50 each. Also

Cattleyas, Cypripediums, Laelias

WRITE FOR PRICES.

Dr. R. SCHIFFMANN, St. Paul, Minn.

Hardy Herbaceous Plants.

Japanese Iris, German Iris and Paeonias, Specialties.

Golden Glow, Eulalias, Day Lilies, Hardy Sunflowers, Dragon's Head, Cone Flowers, Boltonias, Sedums and a long list of other valuable kinds in large supply. Please write for lists of varieties and prices; they will probably surprise you.

J. T. Lovett, Little Silver, N. J.

Primroses

CHINESE, single, mixed, 2¼-in. pots..... \$1.50 Per 100
ASP. PLUMOSUS, 2¼-inch pots..... 3.00
GERANIUMS, 10 varieties, 2-inch pots..... 2.50
PANSY PLANTS..... \$2.50 per 1000.
CASH OR C. O. D. .50

JOS. H. CUNNINGHAM, Delaware, O.

Please mention the American Florist when writing.

Carnation Cuttings

We are now booking orders for rooted cuttings. List of varieties and prices sent on application.

The Cottage Gardens, Queens, L. I.

HERRON...

Carnation Grower,

OLEAN, N. Y.

Please mention the American Florist when writing.

The New Fern
"ANNA FOSTER"

Unqualified success, greatly admired, small plants, \$25 per 100. Large plants, cut from bench, \$50, \$75, \$100 per 100. Pot plants, 5-inch, \$1.00; 6-inch, \$1.50 each. KENTIA PALMS, \$50, \$75, \$100 per 100. RUBBERS, 5-inch, 18 inches, \$4 per doz. L. H. FOSTER, 45 King St., Dorchester, Mass.

BEGONIA GLOIRE DE LORRAINE,
Begonia Light Pink Lorraine,

For July and Later Delivery,
\$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near
Chestnut Hill, Pa.

Please mention the American Florist when writing.

CARNATIONS Rooted
Cuttings

10,000 Ethel Crocker now ready; just
the right thing
for growing into plants for next summer's
bloom, \$10.00 per 1000.

I will be glad to quote prices on any of the following for January or later delivery. Please state how many of each variety are wanted and when they are to be delivered: Dorothy, Nelson, Cressbrook, Queen Louise, Alba, Lorna, Her Majesty, Apollo, Estelle, Adonis, Morning Glory, Higginbotham, Gaiety, Prosperity and Roosevelt.

After this batch of Crocker are sold I will root it only to order, at same price per 1000, and orders must be placed six weeks before stock is wanted.

ALBERT M. HERR, LANCASTER, PA.

Please mention the American Florist when writing.

ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong,
2½-inch, \$3.50 per 100.

SPRENGERI, strong, 2½-inch, \$2.50 per 100.

BOSTON FERNS.

From bench fit for 3, 4, 5, 6, 7 and 8-in., 2½c, 5c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA

Extra fine, 4 to 7-inch pots, only 12c per leaf.
25 FINE RUBBER PLANTS, 3 feet, \$1 each, or
the lot for \$20.00. CASH PLEASE.

A. J. BALDWIN, NEWARK, OHIO.

Orchids!

Just arrived in perfect condition,

LAELIA ELEGANS

and Cattleya Intermedia. Write for particulars.

Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

VIOLETS Lady Campbell and
Swanley White, 3-in.
pots, \$30.00 per 1000.

Chrysanthemum stock J. S. Kalb, Bon-
maffon, Ivory,
White and Yellow Robinson and Col Appleton,
at \$6.00 per 100.

Carnations sold except Daybreak, White Day-
break, Mme. Chapman and Guard-
ian Angel.

CRABB & HUNTER, GRAND RAPIDS, MICH.



AZALEAS.

All the best sorts, such as Bernard Andrea Alba, Deutsche Perle, Vervaeoana, Simon Mardner, Mme. Van der Cruyssen, Virginiana, Empress of India, and many others.

PRICE IN ASSORTED LOTS, FOR EARLY ORDERS:

- 10 to 12-inch crowns, bushy plants.....\$40.00 per 100
- 12 to 14-inch crowns, bushy plants..... 50.00 per 100
- 14 to 16-inch crowns, bushy plants..... 60.00 per 100
- 16 to 18-inch crowns, bushy plants..... \$12.00 per doz.
- 18 to 20-inch crowns, bushy plants..... 25.00 per doz.
- 20 to 22-inch crowns, bushy plants..... 30.00 per doz.
- 22 to 24-inch crowns, bushy plants..... 36.00 per doz.

We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

BOSTON FERNS.

Extra choice lot of compact, bushy, pot-grown plants.

- 2½-inch pots.....\$5.00 per 100
- 3-inch pots..... 10.00 per 100
- 4-inch pots..... 25.00 per 100
- 5-inch pans.....\$40.00 per 100
- 6-inch pans..... 9.00 per doz.
- 7-inch pans..... 12.00 per doz.

Chrysanthemums STOCK PLANTS FROM BENCH AND FROM 6-INCH POTS.

- Per Dozen, \$1.50; per 100, \$10.00.**
- | | | | |
|-----------------------|------------------|-----------------------|---------------------------|
| Mrs. Jerome Jones. | Superba. | Yellow Mrs. J. Jones. | Anemone & Pompon Vars. |
| Major Bonnaffon. | Viviand-Morel. | Timothy Eaton. | Per Dozen, \$3.00. |
| Mrs. H. Robinson. | Wm. H. Chadwick. | Mrs. Elmer D. Smith. | Delicatum. Descartes. |
| May Forster. | White Bonnaffon. | Chestnut Hill. | Garza. Mary Stuart. |
| Mrs. O. P. Bassett. | Walter Molatsch. | Col. D. Appleton. | Mispha. Magnificus. |
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- Per Dozen, \$3.00.**
- Gold Mine.
 - Marian Newell.
 - Omega.
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 - Polar Queen.
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- Chito.
- Geo. W. Childs.
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VAUGHAN'S SEED STORE, 14 Barclay Street, New York. 84-88 Randolph St., Chicago.

GREENHOUSES, WESTERN SPRINGS, ILL.

Prepare Now

FOR CHRISTMAS SALES. You will find the following stock a good investment and just as represented. It is in need of a shift, and being short of room, we must sell at reduced prices.

ASPARAGUS SPRENGERI, extra strong field-grown, stored in frames. Has not been frosted. These plants are making new top and root growth. If potted now will be fine for Christmas. Plants large enough for 4-inch and 5-inch pots or pans, \$3.00 and \$5.00 per 100 respectively.

AOIANTUM CAPILLUS VENERIS, the best for fern dishes. Bushy 2½-inch pot plants, \$3.00 per 100.

CHINESE PRIMROSES, select strain. **Reading Scarlet**, best of its color. **Light Rose Pink**, no trace of magenta. Large plants from 3-inch pots, in bud and some bloom, \$4.00 per 10.

CINERARIA STELLATA, good for pot displays or cutting. Extra strong, from 3-inch pots, \$4.00 per 100.

CINERARIA GRANDIFLORA NANA, from 3-inch pots, \$3.00 per 100.

CYPERUS ALTERNIFOLIUS, large 3-inch stock, \$3.00 per 100.

JUSTICIA, flowers in loose panicles from December to March. Color, dark pink, almost purple. Of easy culture, adapting itself to varying conditions. Its lasting quality and freedom of bloom make it desirable for all kinds of decorating. Bushy, well formed plants in bud and bloom, from 7-inch pans, 30-cents; \$3.00 per doz.

GERANIUMS. The following standard varieties are from fall struck cuttings: **S. A. Nutt. Marvel**, **Sam Sloan**, from 2½-inch pots, \$2.50 per 10. **Jean Vlaud**, **Mme. Landry**, **Dryden**, **Little Pink**, from 2½-inch pots, \$1.00 per 10.

NATHAN SMITH & SON, Adrian, Mich.

STOCK 'MUMS Bonnaffon, Queen, Ivory, Appleton, Geo. Pitcher, Niveus, Eda Prass, Wanamaker, Yanariva, Geo. Conover, 4c each. Satisfaction guaranteed. **W. B. OVIATT, BRIGHTON, N. Y.**

REDUCED RATES FOR CHRISTMAS AND NEW YEAR HOLIDAYS.

The Nickel Plate Road will sell tickets December 24, 25 and 31, 1902, and January 1st, 1903, at rate of a fare and a third for the round trip, to any point located in Central Passenger Association territory, good returning to and including January 2nd, 1903. Pullman service on all trains. Individual Club Meals, ranging in price from 35c to \$1.00, served in dining cars. Address John Y. Calahan, General Agent, 113 Adams St., Chicago, for particulars. Chicago city ticket office, 111 Adams St.; Depot, Harrison St. and 5th Ave.

PALMS, FICUS AZALEAS, Etc.

PALMS.

- KENTIA BELMOREANA**, 2½-in. pots, \$6.00 per 100; \$50.00 per 1000.
- KENTIA BELMOREANA**, 3-in. pots, \$12.00 per 100; \$100.00 per 1000.
- KENTIA BELMOREANA**, 24 to 28 inches, fine bushy plants, \$1.25 each; \$15.00 per doz.
- KENTIA BELMOREANA**, 30 to 32 inches, perfect condition, \$1.75 each; \$20 per doz.
- AZALEAS**, 10 to 12-in. crowns, \$35 per 100.
- " 12 to 14-in. crowns, \$45 per 100.
- " 14 to 15-in. crowns, \$55 per 100.

FICUS ELASTICA.

- 4-in. pots, heavy strong stock, \$20 per 100.
- 5-inch pots, 18 to 20 inches, \$30.00 per 100.

DEUTZIA (Fine for Forcing)

- LEMOINEI**, 18 to 24 inches, \$8.00 per 100.
- GRACILIS**, 18 to 24 inches, \$8.00 per 100.
- SPIRAEA JAPONICA**, \$3.00 per 100.
- COMPACTA**, \$3.50 per 100.
- FLORIBUNDA**, \$4.50 per 100.
- CYCAS REVOLUTA**, 60c, \$1.00, \$1.25, \$1.50 and \$2.00 each.
- BOSTON FERNS**, 2½-in. pot, \$3.00 per 100.
- PRIMULA CHINENSIS**, 2½-in. pots, \$2.50 per 100.

The Storrs & Harrison Co. PAINESVILLE, OHIO.

A FEW GOOD THINGS YOU WANT.

- ARECA LUTESCENS**, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
- KENTIA** Belmoreana and Forsteriana, extra clean and well grown plants, 2½, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
- REX BEGONIA**, 2 and 3-inch, \$4 and \$8 per 100
- BOSTON FERN**, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.
- ASPARAGUS Plumosus**, 2-inch, \$5; 3-inch, \$8 Sprenger, 2 inch, \$3; 3-inch, \$5, per 100.
- DRAECAENA INDIVISA**, 4, 5-in., \$10, \$25 per 100
- ENGLISH IVY**, 2 and 3-inch, \$3 and \$8 per 100
- CAMPBELL VIOLETS**, 3-inch, \$4.00 per 100.
- VINCA VAR.**, 3-inch, \$4.00 per 100.
- Chinese Primrose**, 3-in., \$5; 4 inch, \$8 per 100

Cash or C. O. D.

GEORGE EMMANS, NEWTON, N. J.

Always mention the.....

American Florist

when you write to an advertiser.

Cyclamens IN BUD and BLOOM.....

See what others say of my Cyclamens: "The Cyclamens came through in splendid condition, in fact better than any we have ever received. Very respectfully, MRS. EDGAR HALL, Austin, Texas." Five days on the road and in splendid condition; so is all my other stock. X 4-in., \$10 and \$12 per 100; 5-in., \$18 and \$25. **PRIMROSES**, in bud and bloom, 4-in., \$8. **CINERARIAS**, frame grown, fine stock, 3-in., \$5. **Field-Grown ASPARAGUS SPRENGERI**, \$3, \$5 and \$7 per 100. **CHRIST WINTERICH, Dellance, O.** Please mention the American Florist when writing.

10,000 GERANIUMS

2½-INCH, A NO. 1 STOCK.

- Red Trego, Heteranthe, Double and Single Grant, S. A. Nutt, Adrian.
- White—La Favorite, Garr.
- Pink—Phallus, Jean Vlaud, Perkins.
- Salmon—Beauty Portevine, E. G. Hill, Bride.

Write **GEO. A. KUHL, PEKIN, ILL.**

Please mention the American Florist when writing.

Pittsburg.

COLD WEATHER BRINGS GOOD INCREASE IN BUSINESS.—MOST STOCK UNDER THE DEMAND.—GOOD PROFITS IN CHRYSANTHEMUMS.—VARIOUS NOTES.

Cold weather has come at last and quite a rush of business with it. Activity in social circles is at its height and the demands made upon us for these and other occasions, keep us busy from morning until night. The supply of stock of all kinds seems to be short, especially in the case of roses and chrysanthemums. The latter have paid excellently this season and every grower in this section is satisfied with the general results. Now that the cold weather is here, it is likely that the few remaining blooms will bring very high prices. Home-grown roses are superfine and both good and poor stock is being shipped in. Both home-grown and shipped Beauties are all that could be desired. Double violets are a little lower in price and much better in quality. Carnations have advanced in price but move slowly. Purchasers prefer roses rather than pay big prices for medium grade carnations. Lily of the valley is very fine, but scarce. Gardenias and cattleyas are meeting with liberal sale.

Thos. Ulam is usually fortunate enough to secure a vacant storeroom for his Christmas stock, but it does not look as though he would get his wish this time.

John Sherron, for many years foreman of the Phipps Conservatories, in West Park, Allegheny, is ill with brights disease and in a very critical condition.

Supt. Hamilton, of the Allegheny parks, is in Mexico; he will return in the early part of December.

Sam. McClements has returned from the east and has a few novelties for the holiday trade.

John Wyland, of DeHaven, Pa., is highly pleased with the progress of his poinsettias.

Carl Klink is ill with fever at the Mercy Hospital, but is slowly improving.

Visitors: C. J. Watson, Philadelphia; Thomas J. Wade, New York.

E. L. M.

Mushroom Spawn



Frequent importations from England. Always fresh and lively.

CARNATIONS

Strong, healthy plants, grown on high land.

Portia.....	100	1000	Eldorado....	100	1000
Scott.....	4.00	35.00	Daybreak....	4.00	35.00

J. J. Styer, Concordville, Pa.

JOSEPH HEACOCK,

WYNCOTE, PA.
ARECA LUTESCENS,
KENTIA BELMOREANA,
COCOS WEDDELIANA.

PRIMROSES.

Improved Chinese. Finest large flowering fringed varieties grown. Single and double, ready for 3-inch pots, \$2.00 per 100. Cash. Enough extras will be added to every order to pay express.
JOHN F. RUPP, - **SHIREMANSTOWN, PA.**
 The Home of Primroses.



BOSTON FERNS 5-in. pots, \$3.00 per doz.
 6-in. pots, 5.00 per doz.
 6-in. strong 6.00 per doz.
 7-in. pots, 7.20 per doz.

ASPARAGUS PLUMOSUS NANUS,
 4-in. pots, fine plants, \$1.50 per doz.
 4-in. pots, extra select, \$2.00 per doz.

FERN BALLS furnished with leaves, \$5.00 per doz.
FERNS FOR DISHES
 2-in. pots, good varieties, assorted, \$3.00 per 100.
 WRITE FOR LIST.

The GEO. WITTBOLD CO.
 1657 Buckingham Place, Chicago.

\$2.50 PER 1000. This offer good 2 weeks only; to make room for driveway; bargain.

GIANT PANSIES. fine stocky plants, in variety equal to any.
REX BEGONIAS. 15 varieties, fine, 2-inch, \$3.50 per 100.
REX BEGONIAS. rooted cuttings, \$1 per 100.
DOUBLE DAISIES—Snowball, Giant, Long-fellow.
FORGET-ME-NOTS, in mixture.
 Satisfaction guaranteed. CASH.

BYER BROS., Chambersburg, Pa.

B. & A. SPECIALTIES

AZALEAS We have 10,000 from which to select your stock. Place orders at once.
RHODODENDRONS for forcing. Finest stock ever imported. Write for prices.

BOBBINK & ATKINS, Rutherford, N. J.

500,000 VERBENAS THE CHOICEST VARIETIES IN CULTIVATION.

Fine pol plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 60c per 100; \$5 per 1000; \$45 per 10,000.
NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.
 We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, BLOOMSBURG, PA.

Ficus Elastica

Latania Borbonica and Kentias 3 and 4-in. pots
 I have a fine stock of the above which is offered to the trade at a bargain. If you have room a large profit can be made on these plants in a short time. Write for prices; they are too low to quote here.
W. W. COLES, KOKOMO, IND.

FERNS.

2 1/2-inch Mixed Ferns..... \$3.00 per 100 Cash
 2 1/2-inch Dracaena Indivisa..... 3.00 per 100 or
 25 Mixed Ferns, prepaid..... 1.00 C.O.D.

WM. A. CLARK & SON, 44 Boyd Street, Watertown, N. Y.

PALMS.

HOME-GROWN, FINE, CLEAN STOCK; GROWN COOL.

Write for Price List. **J. B. HEISS, The Exotic Nurseries, DAYTON, OHIO.**

SPECIALTIES

ROSES, from 3-inch pots. **In Best**
CARNATIONS, for all delivery, **Varieties**
CHRYSANTHEMUMS,
SMILAX, VIOLETS.

Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.

Please mention the American Florist when writing.

ARAUCARIA EXCELSA

We have the largest stock of in the country, May importation, raised from top cuttings only.

2'00 must be sold by Xmas to make room for Easter plants.

5 1/2-inch pots, 12 to 14 inches..... 60 to .75
 6-inch pots, 15 to 18 inches..... 75 to 1.00
 Specimen..... 1.25

KENTIA FORSTERIANA and BELMOREANA, 5 1/2 to 6-in. pots, 25 to 30 inches high, 75 to 1.50
FICUS ELASTICA, 5 1/2 to 6-in., 18 to 24 inches high, from \$4.00 to \$5.00 per doz.

BOSTON FERNS, 6-inch pots..... .40
 Cash with order please. To save express mention if pots to be taken off.

A BIG MISTAKE you make if you try another Firm, because we are specialists and are large importers and carry strictly the largest and cheapest stock of *Araucaria Excelsa*.

GODFREY ASCHMANN,

WHOLESALE GROWER AND IMPORTER OF POT PLANTS,
 1012 Ontario Street, PHILADELPHIA, PA.

GERANIUMS Rooted Cuttings

A surplus of *Heteranthe*, double scarlet, and *Buchner*, double white, \$1.25 per 100; \$10 per 1000. *Jean Vialat*, the best pink bedder, and *Castellane*, the best red bedder, a big lot ready, at \$2.00 per 100, or \$15.00 per 1000.

Perkins, *Poittevine*, *Laundry* and *Riccard*, at \$2.00 per 100, or \$15.00 per 1000. (Dec. delivery.)
S. A. Nutt, at \$1.25 per 100, or \$10.00 per 1000. (Dec. delivery.)

Bonnot, *Castiris*, *Acteon*, *Harrison*, *Jaulin*, *La Favorite* and *La Pilot*, ready now, by the 100 only, at \$1.50 per 100.

ALBERT M. HERR, LANCASTER, PA.

Please mention the American Florist when writing.

Miniature Baby Greenhouse



FOR GROWING SMALL PLANTS.

Two SIZES. } No. 1. 11 1/4 x 12 1/4 and 11 inches high.
 } No. 2. 15 x 16 1/2 and 15 1/4 inches high.
 Are folded up in compact package of about one cubic foot; weight about 18 pounds.

SMALL OR No. 1 SIZE.	LARGE OR No. 2 SIZE.
1 house.....\$ 4.50	1 house.....\$ 6.50
2 houses..... 8.50	2 houses..... 12.50
4 houses..... 16.50	4 houses..... 24.00
6 houses..... 24.00	6 houses..... 34.50

SIEBRECHT & SON, NEW ROCHELLE, N. Y.
 Please mention the American Florist when writing.



THE KINNEY PUMP.
 For applying Liquid Manure it has no equal!

Sent prepaid for \$2.00.

Ad-dress **The HOSE CONNECTION CO. KINGSTON, R. I.**

The Standard

The lightest running, most rapid and powerful ventilating machinery in the market.

DUPLEX GUTTERS

Made of wrought or cast iron with self-adjusting sash bar clips. The only Drip Proof Metal Gutter offered to the public. Send for my catalogue free.

E. HIPPARD, Youngstown, O.

AMERICAN FLORIST ADS ALWAYS DO BUSINESS

Week days and every day, Sundays and holidays,

ALL OVER THE COUNTRY AT HOME AND ABROAD.

The Florists' Hail Asso'n Pays Losses Promptly.

Reserve fund \$10,000. For particulars address **JOHN G. ESLER, SADDLE RIVER, N. J.**

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Factory of Metal Wreaths



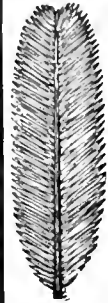
No. 37.
 No. 37. Round Daisy-Leaf Frame, 15 inches diameter, trimmed with purple, white or pink violets. Each, 75c.



No. 80.
 No. 80. Round Chrysanthemum-Leaf Frame, leaves shaded, 15 inches diameter, trimmed with St. Joseph lilies and lily leaves. Each, 75c.



No. 1020.



Sago Leaf.

SAGO LEAVES, METAL WREATHS
 From 15c, up to the latest designs, as standing crosses, standing wreaths, and in fact any design that can be made up on natural flowers will be furnished in any color and style to suit your wishes.

ASK FOR MY ILLUSTRATED CATALOGUE OF METAL GOODS OR FOR MY ILLUSTRATED CATALOGUE OF DECORATIVE PLANTS.

FRANK NETSCHERT 34 Barclay Street, NEW YORK.
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FRANZ BIRNSTIEL, COBURG, GERMANY.

Baskets, Puerto Rico Mats, Cycas, Waterproof Crepe Paper, Glass, China.

LATEST NOVELTIES IN ALL FLORISTS' SUPPLIES. FOR THE WHOLESALE TRADE ONLY.

WE NOW OFFER

"Chemicals"

for making LIQUID COMPOST. Dry powders all soluble in water. Composts cost less than 1/50 per gal. Correspondence invited.

EASTERN CHEMICAL COMPANY, 620 Atlantic Ave., Boston.

GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs....

\$2.00 Per Year. Sample Copies Free. Liberal terms to florists who take subscriptions.

THE GARDENING CO. MONON BUILDING, CHICAGO, ILL., U.S.A.

THE Regan Printing House NURSERY SEED FLORISTS' CATALOGUES

87-91 Plymouth Place, CHICAGO

MOLLER'S

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The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

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10,000, \$1.50; 50,000, \$3.25. Manufactured by **W. J. COWEE, BERLIN, N. Y.** Sample Free. For sale by dealers.



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A Florists' Plate Book.

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Business Methods

are right you can make a profit on an advertisement here.

New Orleans.

CHRYSANTHEMUMS SHOWN AT THE NOVEMBER MEETING OF THE SOCIETY.—EARLY FLOWERS WANTED.

At the last meeting of our horticultural society we had an informal chrysanthemum show, some excellent stock being on view. Supt. Baker, of Audubon Park showed a novelty in the shape of a sport from V. H. Hallock, a well developed flower of pale salmon color. J. St. Marc brought excellent blooms of Mrs. Cannell, Golden Wedding and Mrs. J. B. Crane. Paul Abele showed the largest collection, most of his flowers being very large and perfect, such varieties as Silver Cloud, Vivand-Morel and Mrs. S. T. Murdock. M. M. Lapouyade had large flowers of President W. R. Smith. R. Eichling reported that there is a new variety named U. J. Virgin shortly to be disseminated from the Mississippi establishment whence Mr. Virgin draws most of his supplies. Here in New Orleans we do not aim at a great variety of chrysanthemums but seek, rather, those which will give the greatest proportion of the flowers on November 1. We regret that here the public associates the chrysanthemum with the burying ground and we find the principal demand on All Saints' Day.

M. M. L.

GIBSON CITY, ILL.—Swan Peterson has opened a neat retail store at Decatur.

FORT DODGE, IA.—P. L. Larson has had a good season thus far. In the past year he has doubled the size of his place and the chrysanthemums did exceptionally well this fall.



CANTON CHINA PLANT-POT.



Canton China Half-Seat or Plant Pot Stand.

PLANT POTS —AND— PEDESTALS.

We invite the attention of intending buyers, or those interested in seeing the newest productions of the potter's art, to our importations of English, French, German, Japanese and Chinese Plant Pots or Jardinieres, selected by our buyers at the places of production in the present season.

They include all sizes and shapes up to the large and very large, from the lowest price up to \$150 each.

Our stock of China and Glass occupies seven floors and more than 10,000 bins.

Wholesale and Retail.

Jones, McDuffee & Stratton Co.

CHINA, GLASS AND LAMP MERCHANTS,

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JEROME JONES, Pres. S. P. STRATTON, Treas.

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Greenhouse Bugs
USE
"NICOTICIDE"

Clean and harmless
as Fumigant or Spray.
Ask your seedsman
for it or write to

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and Trading Co.,**

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Horticultural Builders & Heating Engineers
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Established 1900. JERSEY CITY, N. J.
In 26 months we have built for private estates 87,347 square feet of Glass Houses and have orders for still more. We are just completing a Range for Oakwood Cemetery, Syracuse, N. Y. We want your patronage. Tel. 1851 Bergen.

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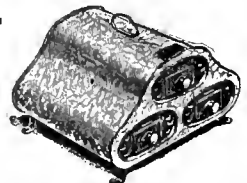
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See the Point No. 2
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Glazing Points are the best.
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SUPPLIES
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The Peerless Powder Blower

EVERY GROWER SHOULD HAVE ONE.



Lightens your
Toll,
Saves Time
and Money.

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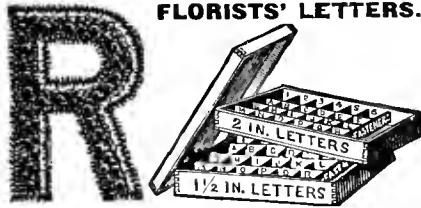
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Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.
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Buy
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At
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Headquarters for the heaviest and best made Sheaves in the market.

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No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$2.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, braced and nicked, with three clasps for 5 to 6-inch pots, each \$1.75.

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Via the Wabash.

Commencing Nov. 9, the Wabash established its system of through Pullman tickets from Chicago to Hot Springs, Ark., via St. Louis and the Iron Mountain Route. Passengers leaving Chicago on the Wabash fast day express, at 11:03 a. m., will arrive at Hot Springs next morning at 8 o'clock. For illustrated printed matter giving full information regarding this wonderful health and pleasure resort, address F. A. Palmer, Asst. Gen. Pass. Agt. Wabash R. R., 97 Adams St., Chicago.

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For the Seedsman

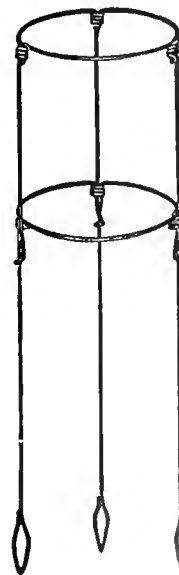
who desires exclusive engravings we desire to say that we shall still adhere to our principle of protection and shall give his work the same careful attention as in former years. We make every style of engraving and do printing of every description to help the horticulturist to place his products before the buying public in an attractive manner.



NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn, N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

The Model Extension Carnation Support.



Flushing, Long Island, Dec. 11th, 1901.

MR. THERON N. PARKER, Brooklyn, N. Y.

Dear Sir— I have used your Wire Carnation Support the last two years, in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.

Very truly,
A. L. THORNE, La Fayette, Ind., July 8th, 1902.

MR. THERON N. PARKER, Harrison, N. J.

Dear Sir:— After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season. We were much pleased with the simplicity, strength and neat appearance of the support.

Yours truly,
F. DORNER & SONS CO.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.

Please mention the American Florist when writing.

Toronto.

TRADE ACTIVE AND SHORT SUPPLIES PERPLEX THE RETAILERS.—QUALITIES GENERALLY DETERIORATE.—A VARIETY OF LOCAL NEWS NOTES.

Business is very good and is all that could be desired for this season, but with the scarcity in most lines of stock it is difficult to fill orders. Roses in all varieties have deteriorated because of dark weather. Meteors and Bridesmaids are very much off color. Brides are not nearly so good in the stem, nor so large in bud as a week ago, and Liberty has almost disappeared. A few Morgan and Perle are coming in. Carnations hold predominance in the cut flower trade at present, but have also advanced in price, \$3 and \$4 being asked for the better grades. It is a pleasure to handle the Princess of Wales violets at present on the market, fine large flowers, good dark color and very long stems. Doubles are also very good. Poinsettias are again making the florists' windows look attractive and, as there is very little available in blooming plants at this season, they find ready sale. A few cold storage longiflorums are noticed and lily of the valley is becoming much more plentiful.

Charles Turp has moved his establishment about three-quarters of a mile further west on Bloor street and now has a fine place, four houses of which are devoted to the better varieties of carnations and partly to violets. These two crops are usually quite successful with him, and this year are exceedingly fine. He also has a large shed in which he grows some elegant mushrooms.

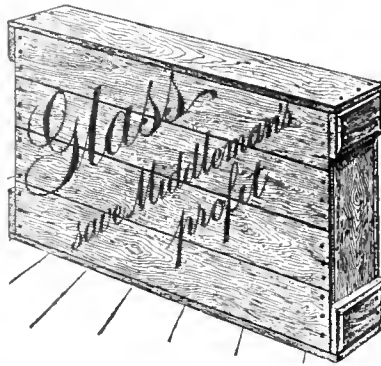
At the last regular meeting of the Florists' and Gardeners' Club, President Chambers being away on business, Vice-president E. Collins was in the chair. Business was soon disposed of and cards and refreshments indulged in.

R. Jennings, of Brampton, is still sending in some very good chrysanthemums. Roses with him are a little off crop, but carnations and violets are doing splendidly.

Miss Lilley, of Dundas street, reports business very good. Chrysanthemums have done well at this place the past season.

W. T. Tidy has azaleas and Harrisii which are ready to flower.

Geo. Hollis has been busy installing a new boiler. H. G. D.



"Most perfect results obtained under FRENCH GLASS."

Established 1847.

SEMON BACHE & CO.

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Direct shipment from abroad.

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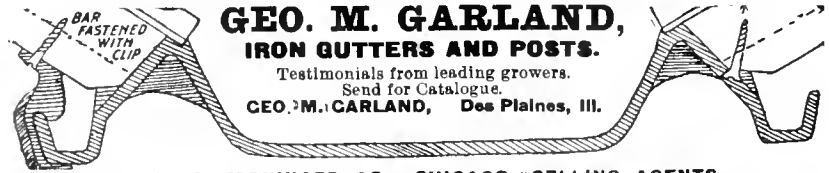
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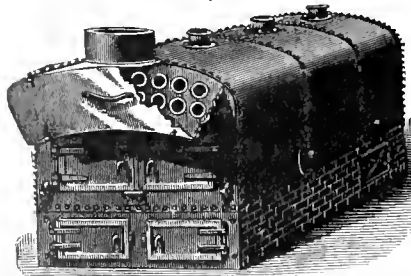
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QUAKER CITY MACHINE WORKS
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Greenhouse Boiler,
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Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

Always mention the American Florist when you order stock.



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Best made for Greenhouses. SELF-FEEDING MAGAZINE. All Steel. Simple, strong, durable. Send for Catalog, etc. S. Wilks Manfg. Co., 53 to 55 N. Clinton St., CHICAGO.

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 MANUFACTURERS OF HOT BED SASH, AIR DRIED GULF CYPRESS SASH BARS AND OTHER GREENHOUSE MATERIAL.
BUILDERS of DURABLE and PRACTICAL Greenhouses at a LOW COST.
 Our descriptive circular contains valuable information for every florist. Send for it.

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Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2-in., in crate, \$4.88	120 7-in., in crate, \$4.20		3.00
1500 2½ " " 5.25	60 8 " " " "		
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144 6 " " 3.16	6 16 " " " 4.50		

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Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address
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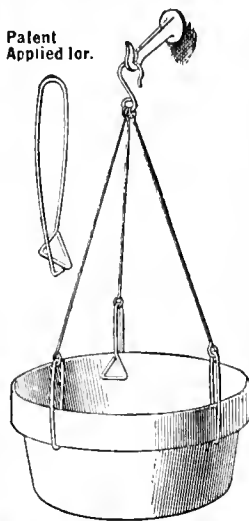
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 which for strength and porosity combined are the best on the market.

RED POTS

SAMPLE POT AND PRICE LIST ON APPLICATION.
C. C. POLLWORTH CO., MILWAUKEE, WIS.

American Florists
 Always do business, Week days and every day Sundays and holidays, All over the country, At home and abroad.

Kramer's Pot Hangers



Patent Applied for.

The neatest, simplest, most convenient and only practical device for converting ordinary flower pots into hanging baskets. They fit all standard made pots from 2 to 10 inches in diameter. The illustration shows how they are attached. Just the thing for hanging up ferns, begonias, etc. You can make room and money by their use. Try them.

Price with wire chain as shown in cut, \$1.00 per dozen by express. Sample doz. by mail, \$1.25.

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 CEDAR RAPIDS, IOWA.



GEO. KELLER & SON,
 MANUFACTURERS OF **FLOWER POTS.**
 Before buying write for prices. 361-363 Herndon Street, near Wrightwood Ave., CHICAGO, ILL.

THOSE RED POTS

"STANDARDS"
 FULL SIZE AND WIDE BOTTOMS. BULB PANS AND AZALEA POTS.
DETROIT FLOWER POT M'FY,
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 Rep. 490 Howard St.

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....
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FLOWER POTS ALL KINDS.

STANDARD POTS SPECIALTY
 List and SAMPLES FREE.
SWANN'S POTTERY MFG CO.,
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"Cluster of Roses Stationery"
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 Please mention the American Florist when writing.

Bargains FOR Florists.

We are headquarters for a general assortment of the necessary material and supplies that you are looking for. If you are about to improve or construct, consult us.

In connection with the dismantling of the Pan-American Exposition, we have for sale:

20,000,000 FEET of fine seasoned lumber, practically new, consisting of all sizes of joists, timbers, dressed and matched boards and flooring; also sash and doors.
50,000 FEET of roofing glass.

PIPE.

We are headquarters for pipe. We offer you:

100,000 FEET of 2 to 4-inch wrought iron, lap welded casing. We can furnish this material in three ways: Either with sleeve or jacket couplings, screwed ends and threaded couplings or with expanded cast iron flanges with bolts and nuts.

1,000,000 FEET of standard black wrought iron pipe, size ¾ to 12-inch. It is second-hand but has new threads and couplings and is in first-class condition.

1,000 TONS of galvanized wire 9, 10, 11, 12, 13, 14 and 15 gauge.

50,000 FEET of 2, 3 and 4-inch cast-iron soil pipe and fittings.

100,000 FEET of garden hose, ¾ and 1-in. **75,000 FEET** of cotton rubber-lined fire-hose, (rubber-lined in and outside), ranging in sizes 1 to 2½-inch.

VALVES and fittings of every kind. **BOX COILS** for heating purposes. **RADIATORS**, new and second-hand.

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50 CAST-IRON sectional heaters, capacity from 450 to 5,000 feet.

1 NO. 2 Standard Kroeschell hot water heating boiler.

FOUR 36x10 Horizontal Tubular.

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SIX 48x14 Horizontal Tubular.

TWO 54x16 Horizontal Tubular.

FOUR 60x16 Horizontal Tubular complete with all fittings.

PUMPS of all Descriptions.

A carload of shovels and spades that we are selling at \$5.00 per dozen.

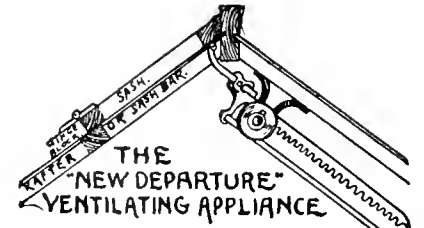
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Write for Catalogue No. 47.
Chicago House Wrecking Co.,
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THE AMERICAN FLORIST



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No. 757.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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CARNATIONS.

NOTES ON CHRISTMAS FORCING.

The near approach of Christmas, with its increased price of flowers, is always an incentive for the grower to employ every means by which he can get an extra dollar from his plants, nor can we censure him for being so inclined. While there are some things that can be done to make the crop more valuable on that occasion, the results obtained from the application of any stimulating agents will be in direct ratio to the amount of judgment used. Too often, however, we see the over-zealous defeating the very object for which they are working by overdoing a good thing.

Assuming that the plants have had the best of treatment, and are in as good physical condition as they can well be at this season of short days and little sunshine, a careful analysis of the conditions that are to be met during the few weeks before we expect to make a heavy draft upon the resources of our plants will enlighten us on several points that will not bear slighting. In the first place December 25 comes almost on the very shortest day of the year, when vitality is naturally very low. And again, we must consider that the plants have not yet thoroughly filled the soil with roots, nor by any means exhausted the nourishment contained therein, making any deviation from the most careful cultural methods extremely dangerous.

It behooves us therefore to use the utmost caution in anything that we do in the way of supplying extra plant food and heat. We have never resisted the temptation to begin applying some weak liquid manure or giving a light top dressing of bone and blood or sheep manure about four weeks before Christmas, although we know that if we consulted only the health of the plants January 1 would be early enough to start feeding. Ten days before Christmas we start to raise both day and night temperature 2° or 3° each night, until about seven days before Christmas we have the temperature 8° to 10° higher than normal, or about 60° at night, continuing at this temperature until the night of December 24, when we begin to decrease again 2° or 3° each night till we have it back to normal. Fortunate indeed do we consider ourselves if the weather happens to be clear and bright, for then we are able to supply a good part of the extra heat direct from nature, which is not nearly so harmful as artificial heat.

It will be evident to anyone that the

plants will have to be in the best of health to stand this forcing period without suffering a severe check. It is with the view of having your plants in just that condition that the writer refers to the matter at this time. The first essential to any plant before it is forced is a strong, vigorous root foundation, and the only way to obtain this is by judicious watering and ventilating from now on, and exercising extreme care that whatever nourishment is supplied will not be strong enough to injure in the least the most delicate root fiber. The plants should have an abundance of air on every favorable occasion to promote a firm and crisp growth. Water should be rather sparingly applied to promote as broad a root system as possible, of course, always being careful that the plants do not suffer in the least for want of moisture. Experience teaches us that plants, when over-watered, make few if any roots, and it is this condition that may determine success or failure later on.

As far as the quantity of the flowers is concerned it will not matter much how you treat them in the next few weeks—so long as you keep them wet and warm you will produce as many flowers from them as you would if you were careful, for every flower that you will cut between now and Christmas has the bud set and will surely develop. But the quality of the flowers that you will cut shortly before Christmas, and the condition that the plants will be in shortly after, will depend very much upon a strict observance of the points mentioned above.

You have often noticed that shortly after Christmas and Easter there is always a great deal of complaint about flowers being of poor quality and going to sleep before they reach the consumer. Do you ever hear of it at any other time? Now, the writer is convinced that most of this complaint is not due to "pickling," so-called. It is directly traceable in most cases to plants that are in an over-watered, over-fed and over-forced condition. These three conditions make a combination so perfect that it would be difficult to suggest an addition to them that would augment the evils directly traceable to them. How well it would be if, instead of having our best customers go back on us in disgust, we could supply them with at least some of the pleasure that they are justly entitled to, after paying two or three times as much for flowers as at ordinary times. It is the thing that too often is the cause of the unfriendly relation that exists

between the wholesaler and the retailer. Let each contribute his share to remove this evil and thereby make it more possible for all the branches of the trade to work in greater harmony. J.

RAISED BENCHES VERSUS SOLID BEDS.

ED. AM. FLORIST:—I am a young man, not old in the business, but anxious to learn as much as I can. One point on which I should like to be informed is as to whether raised benches or solid beds are better for carnations and why. The views of some experienced grower will be appreciated. II.

If you have money to spare for the renewal of your benches every three years, by all means use benches, as you have more control over your plants on a bench than in solid beds and if handled properly they will produce a few more flowers. Raised benches have the advantage over solid beds in that you can force a crop of buds into flowers on a bench by keeping them a little dry and warm, while on a solid bed the plants would be almost ruined. I have no plants on benches this season and think I am saving money, and therefore making it, for my experience has been that the difference in the number of flowers and the money received for them between the bench and the solid bed will not pay the interest on much of an investment in lumber. Where solid beds are expensively built, then it is best to use benches and have better control over your flowers, and for a beginner I would advise benches for two-thirds of the place and solid beds for the other third, as an experiment; then you can decide when the benches rot out which you will make the most money from, as difference in localities makes a difference in results.

ALBERT M. HERR.

BLOOMS DEVELOP SLOWLY.

ED. AM. FLORIST:—Our carnation plants are strong and healthy. They have been in bud for the last month but are very slow in developing blooms. The stems are long and strong. The plants were benched the first week in September. We have applied manure water once. The varieties are Marquis, Morning Glory

and Crocker in pink, Crane in red and Queen Louise, Norway and White Cloud in white. Where can the trouble lie and what is the remedy? S. & B.

One would have to see these carnations and the houses in order to give an intelligent opinion, especially as Morning Glory and Queen Louise are on the list. The other varieties might easily, with no fire heat and dark houses, be in the condition named but these two sorts ought to be in full bloom. There may have been some element in the fertilizer used that has a tendency to retard the development of the blooms. If so the only thing to suggest would be to try and starve them into bloom by withholding water until they are almost, but not quite, wilted and then keep them in this condition and run the houses 50° at night and 70° to 80° during the day on bright days, and 60° on cloudy ones. If the houses have any shading on get it off at once. A light coat of air-slaked lime, if there is any tendency to sourness in the soil, will help matters somewhat. ALBERT M. HERR.

NOTES ON MAKING CUTTINGS.

Cuttings will soon be in order, in fact are in order now, as it is a good plan to begin the propagation early in December of all the late blooming and slow growing varieties that are too good to discard. Take the variety Prosperity as an example. It stands alone in its class. It is a carnation that appeals to the taste of a large proportion of the retailers' customers and will always command a good price. Grown in the ordinary manner, that is, from cuttings struck the latter part of February or early in March, one would have to get 50 cents each for the blooms and then it is a doubtful proposition if it will pay to grow it.

A number of observant growers have hit upon the plan of propagating these cuttings and housing the plants early and the results obtained up to date give promise of the variety paying as a cut flower producer. What is true of Prosperity is, to a lesser extent, true of many varieties, but in working from this point of view one will want to be sure that the variety is late and that its lateness is not due to some fault in its culture.

Other varieties that are more profitable when propagated early are those that are slow of growth and need a long season to make a plant of normal size. Sometimes growers forget the fact that to get a good crop of flowers they need plants with fairly good numbers of shoots when brought in from the field, and the only way to get them in this shape is to propagate the cuttings in December and have them rooted early in January.

Varieties that are naturally early bloomers and good, strong growers under ordinary circumstances make better plants when propagated so that they are ready to take from the sand the last of February or very early in March, varying the time according to the locality. In this latitude, where we can usually plant them out very early in April, it is advisable to have them rooted not later than March 1, as the plants should have at least four weeks' growth before they are planted in the field.

Just what makes a good cutting is a matter on which some very good growers disagree. I am something of a crank on the subject and always take the cuttings from the base of the flowering stems. Where there are not enough of these we cut out the top cutting and get the branch to throw a nice lot of these side cuttings. They are not as nice looking cuttings as the larger ones used by some growers but they always give me better results as blooming plants, and results are what we are aiming at. If the large cuttings give you good results do not under any consideration follow this advice.

There is one point on which we all do agree and that is not to take cuttings from a plant that shows any sign of disease. By disease is meant all forms of stem rot, leaf spot and anything that tends to lower the vitality of the plants, with rust possibly excepted from this category, as rust and some of the fine newer varieties seem inseparable.

Given healthy cuttings and clean sand there should be a very small percentage of loss. The treatment of cuttings in the sand varies considerably as to the sand used. I never had this experience before but have had it very forcibly demonstrated with an early batch of cuttings this season. One lot of sand rooted almost 100 per cent by keeping the cuttings, or rather the sand, wet. The other lot was just the reverse and those kept wet were almost a total loss.

The main point to watch is to see that the cuttings never get wilted, either before or after putting in the sand, and while the cutting house should have an abundance of fresh air, care must be used so that no direct draught blows over the cuttings and melts them by the rapid evaporation it causes. Provision should be made to give them the full sunlight when they are rooted, as they make much better cuttings if they have a week of sun and plenty of air before they are taken from the sand.

ALBERT M. HERR.

SPOT ON CARNATIONS.

ED. AM. FLORIST:—I note the query of "M. J. M." on page 646 of the issue for November 29, with regard to spot. It is a disease brought on by too much moisture on the foliage over night. The only way to get rid of the trouble is to not syringe the plants except when necessary and in watering take care not to get the plants wet overhead. The affected parts should be pinched off. It may take some time, proceeding in this



ORCHID DISPLAY OF SIEBRECHT & SON, AT THE NEW YORK EXHIBITION.

way, to remedy the trouble, and the present crop is likely to be lost. After that all should be well if the foliage is kept dry.
W. F. SCHMEISKE.

DISEASE IN SOIL.

ED. AM. FLORIST:—I wish next spring to plant carnations on ground on which cabbages have been grown. Would any disease which attacks cabbages be dangerous to the carnations, in the way of introducing any form of stem-rot? Would a coating of air-slaked lime before planting be beneficial to prevent the spreading of any disease present?

C. F. H.

If the soil is in good condition, and the cabbages were not affected with club root, there should not be any danger in planting carnations in it next summer. If it is not frozen up too hard I would suggest that the land be plowed this fall and let lay in the rough without harrowing it and then in the spring give it a coat of air-slaked lime and another plowing and good working. The action of the frost over winter will sweeten it up and make it much better soil than if it is let lay uncovered without the plowing.

ALBERT M. HERR.

Another Sport From Rose La France.

This oldtime, sweet-scented favorite rose has a decided tendency to sport. Duchess of Albany was the first, I believe, and was very much darker in color than the original. Then came Augustine Guinoiseau, which was very nearly white, and later came a striped variety; and all retained, if I remember rightly, the same form of petal and flower as the original.

The one to which I desire to call attention at this time is a shade or so darker than its parent, with a brighter and more cheerful shade of delicate pink, without that tendency to a bluish cast which La France is wont too frequently to produce. This sport, which Jacob Becker, of Philadelphia, has registered as Becker's Ideal, has also a different manner of growth, but that to which I particularly desire to call attention is that the petals are different in form from its parent, inasmuch as they have a decided inclination to be cup-shaped, or incurved, whereas the petals of La France, as is well known, recurve or reflex, giving with its sometimes uncouth, knotty look, what some florists have playfully called the appearance of a "ragamuffin," while others have designated it as airily artistic.

One of the great faults of La France is not opening its flowers satisfactorily; especially is this the case in the dark, dull days of winter. It apparently delights in heat, as it has always been considered a good rose for summer time. Mr. Becker assures us that his Ideal is far superior to La France in its buds opening freely, without that tendency to stick in the center that the older variety has, which is brought about, I am inclined to believe, through the sport assuming a difference in the shape of its petal.

This fact brings to mind a controversy which took place in the columns of the AMERICAN FLORIST some time ago to the effect that while admitting that sports or bud variations in plants take upon themselves a difference in growth, as weeping trees and stronger and more rampant growths among roses, giving what the catalogue people delight to term "climbers," and the difference in color has long been admitted; but the



FRANZ DEEGEN, THE NEW YELLOW ROSE.

consensus of opinion at that time was decidedly opposed to the idea that old dame nature would ever think of changing, when in sportive mood, the form of a flower or a petal thereof.

If I mistake not, Benjamin Dorrance secured a sport from Rose Mme. Cusin, which was named Sarah Nisbit, and which assumed a different formed flower, as well as a more delicate tint in color, than is the variety from which it sprang. But to return to Becker's Ideal. All rose growers will watch with much interest how it continues to behave in the future, for La France still has friends among flower buyers and some dealers go so far as to state that high grade flowers of La France would sell well to-day if they could be secured in quantity. However that may be, the latest sport from that source certainly appears to possess qualities that upon better acquaintance will be more appreciated and will cause it to take a place in our somewhat limited variety of roses for cut flowers in winter and summer.

EDWIN LONSDALE.

White Grubs in Greenhouses.

ED. AM. FLORIST:—I have seen the answer to question asked by "J. B. J." in your issue of October 11, 1902, page 384, noted carefully both question and answer, but am still a little in the dark. Mr. May states: "When once taken into the house it is a very difficult matter to eradicate them except by killing them as they are working around the plants. There is no known remedy that I have ever found or ever heard of, that will destroy them without injuring the plants."

I have a lawn under my care about 500x600 feet in dimensions, and the grub worms have destroyed its beautiful appearance. The blue grass will most likely resist the action of some chemicals or solutions yet some chemicals or solutions will, as Mr. May states, injure the plants. If you can suggest something, it would save much time and labor, and will be greatly appreciated.
J. H.

In further reference to this matter, we reprint herewith some particulars regard

ing the grubs and remedies, from a recent bulletin of the Department of Agriculture:

"Nearly every florist is familiar with white grubs, but he may not know that there are several hundred different forms of these creatures, each representing a different species of the family scarabaeidae or lamellicorns. Fortunately only a small portion of the white grubs are of prime importance economically, the remainder not attacking living plants. The destructive forms subsist upon roots under sod and about weeds and various cultivated plants, and most of these, the typical white grubs, belong to the genus *Lachnosterna*. They are brought into greenhouses in pots of earth, and occasionally in manure, but as a rule the species which breed in decomposing matter, such as manures, are much less destructive than the species of *Lachnosterna*. The different species can be distinguished from one another only by careful study, and for practical purposes it will not be necessary to consider this subject in detail.

"The species of white grub shown in the accompanying illustration may be taken as a type of this class of insects. The grub itself, illustrated at *c*, is of large size, of soft consistency, and white or slightly yellowish in color. The body is wrinkled, covered sparsely with fine hairs, and the head is brownish and armed with strong mandibles. This, as well as other grubs of the same class, habitually rests in the curved posture illustrated. The parent beetle, shown at *a*, is a large species, dark shining brown in color, and like others of its kind, familiar to nearly everyone from its habit of flying into lighted rooms in late spring and early summer, where it buzzes and bumps about upon the ceilings until it drops sprawling upon the floor. The antennae or feelers are jointed and terminate in a club composed of seven leaf-like plates, folded closely together when the beetle is resting and expanding somewhat like a fan when the insect is active. The club of the male antennae is usually considerably longer than that of the female. The form figured, *Lachnosterna*

in April or later in May or June. The females enter the earth and there deposit singly their rather large whitish or gray-colored eggs, one of which is shown in outline at *e* of the figure, each in a separate cell, and usually at a depth of from two to four inches. The grubs hatch and feed upon the roots of grasses and similar plants—first upon rootlets and afterwards on larger roots—living in the earth, and slowly increasing in size for a period of two or three years. Transformation to pupa in a normal outdoor condition usually occurs from about the middle of June to September of the second or third year after hatching, the beetles developing in August or September of the same year. These remain in the earthen cells in which the pupal transformation took place until winter has passed; sometimes at a depth of a foot or a foot and a half below the surface, where protection from cold and frost is obtained. Hibernation may occur in two stages of the larva and occasionally in a third, as well as in the beetle state, and some variation as regards the insect's life economy is to be expected in the higher temperature of a greenhouse. White grubs are preyed upon by a host of natural enemies, including other insects, parasitic and rapacious, birds, mammals and batrachians. In the last class toads are the most efficient, and they are sometimes utilized for the purpose of destroying insects in greenhouses.

REMEDIES.

"The habit of white grubs of passing the greater part of their existence underground and at a considerable depth renders it a matter of difficulty to reach them with insecticides. Against some forms bisulphide of carbon, kerosene emulsion, and poisoned baits have been used with some success. For use in greenhouses the best remedy, everything considered, is the poisoned baits. Of these, one of the best is the bran-arsenic mash, which is prepared by combining one part by weight of white arsenic, one of sugar or a like quantity of molasses, with six of bran, and enough water to form a mash. This is spread about the

and some of these are at times troublesome, it is well to exclude such forms as experience has shown contain an excess of these creatures—as, for example, horse manure. They can be identified readily by disintegrating the material, and chickens and other fowls could be utilized in destroying them before the manure is used in the greenhouses."

CHRYSANTHEMUMS.

SOME NEW VARIETIES.

Mrs. R. W. Smith, which John N. May has been showing, is clear, shining ivory white, a bold handsome flower, symmetrical without being stiff or formal in shape. The blooms average six and one-half inches in diameter by five and one-half deep. The season is the end of November. The plants average four feet in height. Terminal buds are used.

Durbin's Pride, Prest. Smith × Mme. Carnot, is one of the E. G. Hill Company's Australian novelties, color a pleasing shade of pink, flower very large and deep, with broad, loose curling petals.

H. W. Buckbee, a seedling of Mrs. T. L. Park × Nagoya is an improved Nagoya, a little brighter in color and more dwarf in growth. The color is a very beautiful yellow. Smith & Son received the S. A. F. bronze medal for it at Chicago.

Minnie Bailey is a beautiful bright pink of the Perrin type, from which it is a seedling. It is not as large as some of the latest varieties but Smith & Son think it will hold its own as a commercial sort for many years to come.

Uwanta, one of John N. May's novelties, is a beautiful shade of amaranth and a bold, well-built flower of good substance. It is a free, vigorous grower, coming in just right for Thanksgiving. The flower is six inches in diameter; either bud. The plants average four and one-half feet.

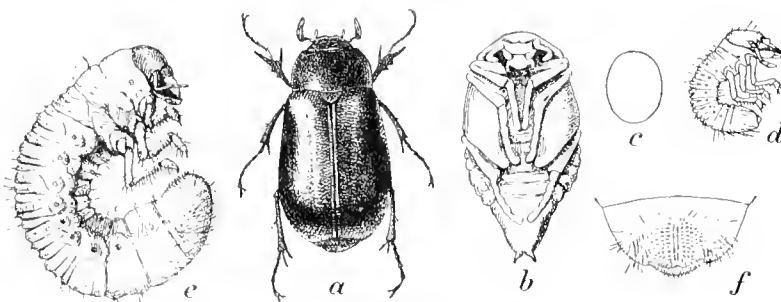
Mrs. J. J. Mitchell, one of Nathan Smith & Son's set of novelties, is very high built, Japanese incurved, petals irregularly incurved. It is cream in color. It scored 89 points before the Chicago committee of the C. S. A.

Lord Hopetoun is an Australian variety bloomed by the E. G. Hill Company, Richmond, Ind., who pronounce it the best color yet produced in red and gold, the red being a near approach to scarlet, and the gold shining and bright like the metal. The form of the bloom shows both colors to the best advantage.

Ethelyn is a light pink, incurved Japanese. This is a fine seedling from Superba, much lighter in color and somewhat earlier flowering. Smith & Son have shown it a number of times this season and it has met with general favor.

Souvenir de Mrs. Durbin, color deep yellow, like Golden Wedding, with the form of Vivand-Morel, has odd elk's-horn petals in the outer rows. The flowers are of the largest size and the growers, the E. G. Hill Company, esteem it one of the best of their set of Australians.

Golden Chadwick, a Vaughan novelty, is a sport of the well-known and popular variety, W. H. Chadwick. It is identical in every respect with the white variety with the exception of color, it being of the same shade of yellow as the Bonaffon. The flowers are inclined to be larger and of more depth. It received first prize at the Kansas City flower show for the best new yellow and divided the honors with Yellow Eaton at the Chicago show, scoring 92 points before the Chicago chrysanthemum committee.



LACHNOSTERNA ARCUATA.

From Bull. 27, new series, of the Div. of Entomology, Dept. of Agriculture, by F. H. Chittenden.—*a*, beetle; *b*, pupa; *c*, egg; *d*, newly hatched larva; *e*, mature larva; *f*, anal segment of same from below—*a*, *b*, *c*, enlarged one-fourth; *c*, *d*, *f*, more enlarged.

arcuata, is a southern one, and common in a climate like that of the District of Columbia. Here these creatures occur from about the middle of April into June, being most abundant in May; hence the name of May beetles. Farther north they are more abundant in June, and are there called June beetles. They are familiar objects at electric lights in most cities.

"The life history of a white grub of the genus *Lachnosterna* may be given in general terms as follows: The sexes pair soon after their first appearance, whether

plants to be protected. In addition to the use of this mash, it is always advisable to pursue the cleanest of cultural methods, which includes the avoidance of fresh soil which might contain these creatures, the keeping down of all grasses in the immediate vicinity of greenhouses, and particularly in the soil in the greenhouse itself. The use of fertilizers is also advisable, as it enables plants to resist insect attack at the roots.

"Sterilizing the soil by means of heat or steam is also of value. As manures are frequently infested by white grubs,



Mrs. R. W. Smith.



Durbin's Pride.



H. W. Buckbee.



Minnie Bailey.



Uwanta.



Mrs. J. J. Mitchell.



Lord Hopetoun.



Ethelyn.



Souvenir de Mrs. Durbin

SOME OF THE SEASON'S NOVELTIES IN CERTIFICATED SEEDLINGS AND IMPORTED CHRYSANTHEMUMS.

WITH THE GROWERS.

ALBERT F. AMLING, MAYWOOD, ILL.

One of the most novel of the various greenhouse establishments in the vicinity of Chicago, where there are many remarkable plants, is the new range for asparagus and smilax which Albert F. Amling erected last spring as an addition to his rose houses at Maywood. The new range includes eight houses running east and west, covering a ground area of 105x125. They are built west of a block of old houses and separated from them by a narrow cross house, where the camera stood for the photograph, reproduced herewith, showing the interior of the houses as it looked early in November.

The range is built on what is known as the Dietsch patent, with several short spans, instead of the large spans, which had been growing wider and higher during the recent years of improvement in greenhouse construction, until the present type came into vogue. Six of these houses are only thirteen feet wide, and the outside houses twenty-six feet, including slopes which are extended to come down to a height of about seven feet, where one house joins on to the old range alongside.

This asparagus house makes a remarkable showing, with its ridges eighteen feet above the ground and its gutters supported on 14-foot iron pipes. The structure was especially designed for asparagus growing and under each ridge an elevated walk, as will be seen in the illustration, has been suspended twelve feet above the ground, to facilitate the stringing and cutting. The space under the gutters is further utilized for baskets of Asparagus Sprengeri, of which there are 500 in the house.

The security of the houses against strong winds is amply provided for, as they are trussed both ways, north and south and east and west, but without obstructing the walks. The glass used is 16x24, laid the 24-inch way and butted. At first sight it might appear

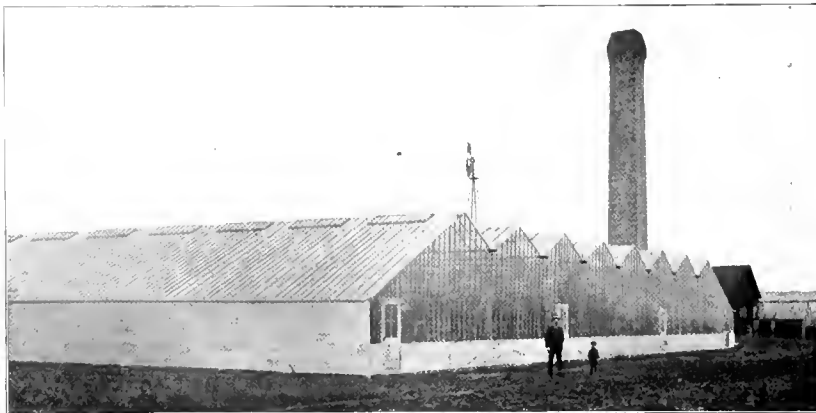
feet wide, in the new range. The walks are eighteen inches wide. Before planting the stock early last spring Mr. Amling excavated to the depth of two feet and laid 4-inch drain tiles under each bed, with elbows reaching up out of the ground at each end to provide for thorough ventilation and drainage. He then filled in with a good rich compost and set the plants fifteen inches apart one way and sixteen inches the other. It took 6,000 plants to stock the houses. For stringing ordinary No. 8 thread is used. The stock has made an excellent growth, the height of the houses allowing for strings twelve to fourteen feet or more in length. Mr. Amling is now beginning to reap a reward for his effort.

There are, in addition to the big asparagus houses, three houses of smilax on the place, and one house from which the chrysanthemums were recently cut out and which will now be given to sweet peas and Harrisii lilies. Five houses of Bride and Bridesmaid roses are grown and good results are regularly obtained. There is also one house of Kaiserin which is carried dormant through the winter and started up in season for summer bloom. The plants are now in their fourth or fifth year and this house has regularly proven one of the most profitable on the place.

The establishment was built in 1889 by Mr. Amling and his brother, E. C. Amling. They bought two acres of ground and built three houses for a starter. These structures have long since been pulled down to make room for more modern buildings. In 1896 E. C. Amling sold his share in the place to the present proprietor, to go into business as growers' selling agent. In the past two or three years A. F. Amling has rebuilt the whole place and added largely to it. He is one of the solid men of Maywood, being a director and vice-president of the Maywood State Bank.

MINNEAPOLIS FLORAL CO., MINNEAPOLIS.

One of the largest and most modern



ASPARAGUS HOUSES OF ALBERT F. AMLING, MAYWOOD, ILL.

that this house would require a great deal of heat, but thus far in the season Mr. Amling has found it much easier to handle than his older structures. He uses steam and last season deepened his boiler pit by several feet and put his apparatus in first-class shape. He has found that the new high houses require ventilation earlier in the morning than the old houses alongside, although shaded somewhat by the latter.

In all there are eighteen beds, each five

places in the Twin Cities is that of the Minneapolis Floral Company, at Thirty-sixth street and Calhoun boulevard, Minneapolis. At the time of my visit, a few weeks since, it was especially interesting, as the chrysanthemum season was at its height and the endless array of varieties displayed was one of the best flower shows ever seen. But it is not alone in chrysanthemums that success has been achieved by this progressive concern, for a look through the establish-

ment reveals everything in the line of plants and flowers in a most flourishing condition.

The houses are 155 feet in length and are built on a side hill, an ideal location for greenhouses. For convenience I will begin at the first house, which is planted to violets. There are two benches containing about 3,000 plants, from which the proprietor expects to realize \$3,000 during the season. The plants were literally smothered in blossoms and buds and were by far the finest plants I have ever seen. The varieties grown here are Marie Louise, Lady Campbell and Swanley White. They were planted in the benches in July in ordinary good soil and have not been fed.

The next three houses are planted with carnations. Many of these were affected by stem rot, the diseased ones having been thrown out. All the leading varieties are grown, but Prosperity and Lawson are the main crop here. This concern was one of the first to plant Prosperity and still considers it one of the most profitable to grow. Lawson does well here and is considered a profitable variety. Queen Louise is a most productive sort as seen here, the flowers being extra large, of fine form and substance. Norway, Lorna, Estelle, White Cloud, Mrs. Joost and many others are grown in lesser quantity.

The next house contained Begonia Gloire de Lorraine, celestial peppers in 4-inch and 5 inch pots, nicely colored for Christmas trade, also palms, ferns and so forth.

In the next houses, twelve in number, the roses are in great luxuriance. These houses are built with steep roofs to the south, the eaves being seven feet six inches from the ground. Garland gutters are employed and 16x24 butted glass used in their construction. Butted glass has not proven satisfactory, however, and will be relaid and lapped as rapidly as possible. The benches in these houses are built under the gutters, so there is but little waste space, every foot being utilized to good advantage.

Quite a number of varieties is grown but the principal crop is Bride, Bridesmaid, Meteor, Liberty and Beauty. A bench of Queen of Edgely was in fine condition but is not particularly profitable. Sunrise is seen here in good form and is a most fitting companion to Sunset, which is grown here also.

At the time of my visit Helen Gould was in crop but the flowers were not at all uniform in color, some being as light as La France while others were nearly as dark as Liberty. When its requirements are fully understood it will become a valuable variety, as it is one of the freest bloomers I have ever seen. Liberty has done fairly well at this place though it is not as profitable as Meteor, the chief trouble being its short stems. Golden Gate, Carnot, Kaiserin and Testout are also grown.

The next house lead into the forest of chrysanthemums before mentioned. Of all varieties grown here, and their name is legion, Eaton seemed to be the best in size and form as well as in texture. Col. Appleton, Golden Beauty, Mrs. Elmer D. Smith, Adele, Mlle. Faure, Chadwick, Rieman, Major Bonnaffon, Mutual Friend and many others caused me to wonder if this year's introductions would be any improvement over these.

Another house contained over 1,000 azaleas, several hundred being 24-inch heads, well budded. A range of sash houses contained California and Princess of Wales violets, primroses, cyclamens and



VIEW IN THE RANGE OF ASPARAGUS HOUSES OF ALBERT F. AMLING, AT MAYWOOD, ILL.

many other interesting plants. One mammoth house extending north and south up the hill is filled this year with carnations.

This large place is owned jointly by a banker and John Monson, the latter being general superintendent. Nearly 90,000 square feet of glass is in the present range and preparations are under way for erecting another large range this winter. FELIX.

The Florists.

The following is a synopsis of the response to a toast, by J. W. Dunford, Jr., president of the St. Louis Florists' Club, delivered at the annual Shaw banquet to gardeners and florists, at St. Louis, November 19:

This is rather a large subject for an ordinary grower, who only calls himself a carnationist on Sundays and holidays. Give me a wholesale man or an up-to-date retailer and I will show you a man who knows how to talk. It is part of his stock in trade. Notice how modest and retiring an ordinary grower always is. He is obliged to read you all his thoughts, fearing lest he forget.

This subject naturally resolves itself into three distinct headings, past, present and future. This is no time to worry you with statistics; I merely wish to call your attention to the wonderful growth of an industry that none of us need to be ashamed of, and to make a few predictions, wise or otherwise, that some of us may live to see fulfilled. Do you remem-

ber anything about the small beginnings of the florists' trade, when a house built of hot bed sash, with 8x10 glass, heated by a flue was considered plenty good enough to raise fine carnations and roses? Fine, yes if they had been much finer, particularly the carnations, you couldn't have seen them at all. These were the times when a house 100 feet long was considered a monster. Compare the houses of to-day with those of fifteen years ago. Now we have them as long as 700 feet, as wide as sixty-five feet, built of iron, glass 24x36, with automatic ventilators, and a small addition to one of the larger of our growing establishments would be anything from 25,000 to 50,000 feet. The retailer who used to be satisfied with a small corner in some one else's store in an out of the way place where rent was cheap is not now content unless he has a place of business that is a little better, and a little more artistic, than the other establishments.

The wholesaler is a young man yet, but an indispensable one. He has not far to look back but keeps up with the procession. He has within the last few years vastly improved his methods of shipping flowers and taking care of them. He is, and ought to be, a great factor in keeping the grower posted as to the market needs and fluctuations.

The grower of the future won't believe in the ordinary, wooden raised benches of to-day. If he does his greenhouse doors will be wide enough to wheel out the benches in small sections to empty

them. He will use automatic stokers and automatic ventilating machines, with the ventilating sash balanced in the middle instead of being hinged at the top or bottom, as we now see them. He will use a self-registering thermometer so that he can keep track of his night fireman and keep the record for future reference. The time may come when we shall see him utilizing his steam pipes to carry and distribute cold air or some other cooling medium in summer. Subirrigation will be a back number, but the benches will have an arrangement so they can be watered from the top by just turning on a valve at the end of the house.

The coming specialist in raising cut flowers will not believe in sterilized soil except that purified naturally by the elements, sun, rains and frosts. He will have seen enough experimenting with the different styles of houses to know absolutely which is the best kind for any particular purpose.

The carnation in the near future will be six inches in diameter on a six-foot stem and I hope not quite so stiff looking as some of the new ones we see now. The chrysanthemum of the future will not be too large to get through an ordinary door, nor too tall to be beyond an ordinary person's vision. We shall have a greater variety of roses, some that will keep a week or two in warm weather. Our violets will be under control so that we shall not get a big crop of leaves when we are looking for flowers.

The retail man will be an expert electrician and artist, well versed in lighting

and color effects. He will turn up his nose at the ordinary delivery wagon of to-day, using an auto in its place; his drivers and delivery boys will be in livery, and among other things he will be able to guarantee safe carriage of flowers to almost any distant point, using some absorbent to wrap around the stems, and covering the box with material that is a nonconductor of heat.

The wholesale man will employ a talking machine for each large consignment of flowers, telling the buyer about the individual merits of that particular lot, their freshness, lasting qualities and cheapness. He will keep the grower posted daily over the 'phone as to the market conditions, prices and so forth. He will have no trouble in making collections, will look out for the grower's interest before his own, generously sharing with him the net profits of his business at the end of the year, for he well knows that the more money the poor grower gets, the more greenhouses he will build.

A Minneapolis Establishment.

E. Nagel is one of the veterans in the ranks of the Twin City florists, and Nagel & Company have one of the neatest stores in Minneapolis as well as one of the best ordered ranges of greenhouses. The accompanying illustration is of the interior of the store, at 818 Nicollet avenue, where Fred. Nagel is in charge. The greenhouses are at 1118 W. Lake street and most of the stock produced goes out through the down-town store.

There were two houses of fine chrysanthemums this season, much to Mr. Nagel's satisfaction. Among the sorts were Glory of Pacific, Vivian-Morel, Mrs. Jerome Jones, Mutual Friend, G. W. Childs, Timothy Eaton and Mrs. H. Robinson. The blooms were as early as any in the vicinity and the quality excellent. Two houses are given to roses and carnations, few roses and more carnations, including such sorts as Mrs. Lawson, Mrs. Joost, Marquis, Sunbeam and G. H. Crane.

The remaining three houses are partly given to violets, Marie Louise and Princess of Wales, and to pot plants. Azaleas are flowered here and there are some good palms and ferns, particularly noticeable being some Bostons and some pterises, the latter raised from seed. Room is also found for Asparagus Sprengeri and A. plumosus nanus. The greenhouses are in charge of Fred. Stoltenburg.

Mr. Nagel's favorite recreation is target shooting and he has his own private gallery in the potting shed, where the trade visitor is always invited to try his hand. It is seldom that the venerable host is worsted with the rifles.

C. F. R.

VAN WERT, OHIO.—C. W. McConahy died November 27. Mr. McConahy attended the Chicago flower show and was then apparently in good health.

FARGO, N. D.—Shotwell & Graver report that Thanksgiving brought a fitting close to a good chrysanthemum season and the prospects are for a busy month and a big Christmas.

SYRACUSE, N. Y.—Henry Morris is in receipt of an autograph letter from Lord Beresford, admiral of the British navy, thanking him for naming his new gunna after him. Mr. Morris is a native of County Kilkenny, Ireland, and the Beresford family is one of the most distinguished in Ireland.

Specimen Chrysanthemum Plants.

BY T. D. HATFIELD, WELLESLEY, MASS.

[Presented to the Chrysanthemum Society of America at the Chicago convention, November 12-13 1902.]

The first chrysanthemums I remember grew beside our front porch. This was when I was a boy in the north of England. They were pompons. I liked them at all seasons for the pungent aroma they gave out on the touch, and the smell in my nostrils to-day carries my thoughts and mind's eye back to that front porch. There is no doubt these recollections have much to do with my persistent regard for them now; for in spite of resolves, taken again and again, that I would



E. NAGEL.

grow less next year, and wouldn't exhibit again, I have more varieties than ever, and am still saying the same thing. There is nothing so hard for me to do as to throw an old favorite away. I have now varieties which are twenty-five years old, and some may be older. I take pleasure in keeping representatives of all the types, and adhere strictly to the old characteristics. No Japanese incurved will take the place of Mrs. Rundle, Mabel Ward, Beverly, Venus and Jardin des Plantes.

The first exhibition of chrysanthemums I saw was held in the town hall at Birmingham, in England, about twenty-five years ago. The first plants I had the care of were at Martin's Nursery, near Hull, England. These were what we would call decorative plants. They were grown four in a 10-inch pot, with very little stopping. Twenty stems were as many as the pots carried, and each disbudded to one flower. Some of the varieties I remember were George Glenny, Dr. Sharpe, James Salter, Fair Maid of Guernsey, Hero of Stoke Newington, Lord Derby and the pink and white Christines. I don't say these were models of perfection, but I remember them with more distinctness than many of more recent introduction.

The exhibition in Birmingham was not an extensive affair. The specimen plants numbered less than two dozen. All were low specimens, on wire frames, much spread out. The cut blooms were on boards, with short stems, and very taking they looked. (Long-stemmed chrys-

anthemums with foliage are gorgeous when fresh, but depressing to look at when wilted.) I don't remember any of the large Japanese, as we know them to-day. They were mostly Chinese "incurved" and "reflexed." The anxiety for large blooms among the incurved has brought in a number of doubtful parentage, and in our exhibitions to-day considerable latitude is allowed. Ivory is included frequently, but it is a Japanese variety.

Chrysanthemums have been exhibited in this country at infrequent intervals for about seventy years, though no regular exhibitions have been held longer than thirty-four years, the first in the Massachusetts Horticultural Society's halls in 1868. The recent popularity dates from about the time of the introduction of the famous Neesima set by Fewkes & Fottler. Hallock and Thorpe and Waterer had made some importations some years previously. These only paved the way. Mrs. Alpheus Hardy was the most noteworthy of this set. I question if any excepting W. H. Lincoln is in existence to-day, certainly not in general cultivation. It was unfortunate but unavoidable, as the onrush of introductions, mostly of American seedlings, completely swamped them. President Hyde came out about the same time and proved an excellent variety for specimens. Latterly, however, it seemed to lose constitution and we gave it up.

We have constantly been changing our list of varieties suitable for specimen plants. It is one of the things I cannot understand, why we do so, and still we make very little headway. The explanation I believe lies in a desire to keep up with the novelties. It has proved a mistake, as varieties selected almost wholly because of some special merit, either size or color of blooms, are seldom suited for specimen plants; and among our best to-day, scarcely any are found which make good specimen blooms. Red Warrior does not, neither do Louis Boehmer, Fisher's Torch, The Bard or Phœbus. I often wish we could get Fair Maid of Guernsey, Belle Hickey, Jeanne Delanx, Jardin des Plantes or Lady Selborne.

At the show of 1888 in Boston there was considerable excitement. The Neesima set was on exhibition. Manda had bought Mrs. Alpheus Hardy for a fabulous sum. Elijah A. Wood, of West Newton, was a prominent exhibitor. He was a leader at that time in novelties, and later took honors at Madison Square Garden, New York. My employer was particularly enthusiastic and requested me to visit Mr. Wood with the object of buying cuttings. This, however, was out of the question, buying, and on leaving Mr. Wood's place I was the proud possessor of about forty varieties, many of which were novelties of the time and accordingly much prized. They were all grown to specimen plants and I think I had in all 120 plants and about eighty varieties. A temporary structure was erected for flowering time.

These were happy days, but not without some anxiety. Staking was a considerable task, but somehow we did not feel so unkindly toward the work as we do now. We led for a while, but John Barr, our neighbor, pushed us hard and, latterly, has had the field to himself, and now he is being pushed. This is the way things go; every man, or dog, has his day. We grew nice specimens then, and do now, but we never grew so many as John Barr, or grew them as large, or finished them as well. This is real progress.

Years ago we did not grow our plants altogether indoors, as we do now. They were grown outdoors from the first of May until September. We avoided some insect pests but encountered others. In those days red spider and green fly bothered us little. They had their own enemies in other insects, but the chinch bug came and struck us in a vital spot. Blighted and stunted growth was the result, so we took to growing them indoors and even then we had to keep a sharp eye, and many were the schemes and devices to combat the pest. Now the chinch bug is a rarity on chrysanthemums. The dahlia is his favorite flower. Then there was the "ants' cow," a big white root aphid which ants "farmed." This gave us lots of trouble. We could easily have finished the aphid, but the ants were persistent and soon had another stock.

Indoors our worst enemy is red spider. It is an insidious pest and very liable on account of its small size to be overlooked until it gets a strong hold. We have tried about all the nicotine compounds, both by fumigating and as a spray, but none will kill them outright. There is nothing so good as water, and we are forced to continue spraying right up to exhibition time. I have tried it upon plants with the flowers expanded and it has done no harm when the day is bright enough to dry up all moisture before evening. There is always the danger of getting the plants water-logged, especially when they have been potted a long time.

I may go back to cutting time, and this begins right after the exhibitions. There are always plenty to get then, and often it is easier than later. At any rate, we make sure of all new and scarce varieties, and if we can get nothing better we can do very well with leaves. We have hunted high and low for new things and, dog-in-the-manger like, we neither wanted to give them away, or throw them away, even when we saw we had too many, and sure enough it would have been better if we had done both with many of them. I feel sure the first plants I grew of W. H. Lincoln and President Hyde were stolen, but I didn't steal them. We used to beg all the seedlings we could of the late H. A. Gane, of West Newton, Mass., who will be remembered as the raiser of Mrs. Jerome Jones. Yellow Ball is a relic of these times.

Sometimes we took our early cuttings over again, as we thought they made better specimens when started in February, but often we did not resist the temptation to grow the originals on account of their size, hoping to make larger specimens, but seldom they did. We have tried growing old plants a second year. It is not worth the trouble, but I may mention a plant of Mrs. Alpheus Hardy which won a silver medal in Boston and a cup in New York the next season.

Cuttings will stand considerable saturation and must be kept close for a few days. When rooted they are potted in small pots, using light soil. We usually put in four cuttings and pot off two, saving one of each variety to put in boxes for emergencies. These may make just as good plants as those carefully potted. One can hardly go by the size of the cuttings, still, I should always prefer a strong one. They are stopped as soon as nice young growth is made, and when well rooted put into "fours," later into "sixes" and stopped frequently. For the next and, in most cases, our final potting, we pay more attention to the soil. After trying various kinds, our preference



THE RETAIL STORE OF E. NAQEL & CO., MINNEAPOLIS, MINN.

is for light loam. There is less danger of getting the plants water-logged, a serious condition.

A good rich soil with a moderate proportion of lime, in some available form, is the best. We have used Clay's fertilizer as an ingredient with excellent results. It stays with them to the end. For a liquid there is nothing better than horse urine when carefully used, say at the rate of half a pint to a two-gallon can, once or twice a week. But this should not be given until the plants show the need of it, which should not be a difficult matter for the ordinary practitioner to decide. More judgment is required to know when not to use it. It is easy to overdo. All this applies to plants which have had their final shift, but I meant to say, when making it, that they should be potted only moderately, and not too full, as the root development is liable to fill the pots up, and if potted quite firmly, too hard to allow of the free passage of water. With some of our plants, at this writing, November 1, it takes half an hour for them to soak, and one at least that I depended upon became so hard that I had to punch holes through the ball with a stout piece of wire, but it is injured beyond recovery. It is hard, too, to tell when sick plants want water. They will wilt when the sun shines and it requires the greatest restraint not to apply it. A sure test is to damp the floor and walls thoroughly and if they don't recover they need water.

Staking is in a great measure a matter of taste; I mean as to how and when to do it. It is easier to do it all at once. I can get a more shapely plant. I feel sure such wholesale work is injurious, although it is not decidedly apparent. And if it is done piecemeal, part in August and finished in October, there will be considerable re-arrangement of the shoots, untying and re-tying. I tried a wiring plan some years ago; we made some nice looking specimens, which were photographed for the AMERICAN FLORIST. But it was almost useless to try to carry them in town. They took up too much room. E. M. Wood, of Waban Rose Conservatories, was very enthusiastic over this idea, and the concern, with Alex. Montgomery at the head, exhibited six plants in Boston finished in this way,

but it took a box car to carry them in. The advantage of staking with pliable stakes like willows consists in being able to draw the plants together so that there will be no friction. We first fill the plants all about the flowers with tissue paper and then draw them in with bands of cotton cloth.

I wish to say a few words about unusual varieties, old and new, which we use for decorative purposes, for cutting and massing. Say what you will, a specimen plant is of no use except for exhibition: Its formal character is revolting if seen too often. A number of small plants grown in 7-inch and 8-inch pots, from one to two feet in diameter, mixed together, any way, gives a variety of form and color we never get in specimen plants. No attempt is made by us to train them, only stakes enough are inserted to keep the shoots together. This informality is charming. All types are represented, pompons, pompon anemones, large anemones, incurved and reflexed; even the larger flowering Japanese, when grown in this way, would hardly be recognized. The Mizpah type, single flowers, originated with E. D. Smith, Adrian, Mich. They have a distinct beauty. We are often asked if they are marguerites; we would rather compare them to single pyrethrums in form of flower. Grown in 6-inch and 7-inch pots, they are hardly more than a foot high and models of neatness. This season we have added some new colors and a slight variation in type—seedlings of ours, raised from Mrs. Filkins—one of the feathery ones, of the Golden Shower type. We would suggest an addition to the schedules of chrysanthemum societies, which would give these dwarf forms a chance to be seen. "Specimens in 8-inch pots, not more than eighteen inches high."

Though hardly in line with this essay, a little matter, at least interesting to me, is the fixing of sports. This can seldom be done by taking cuttings from the base of the plant which sports. As generally happens, it is only part of a branch, and shoots below, may bear normal flowers. Oriental Glory, a satiny pink, sported golden bronze last autumn, and this has been fixed by leaf cuttings. This season it has sported again, clear yellow, with

a wedge of pink. Oriental Glory is probably not known to many, but I will ask those who have it if it has sported. It is a common thing for a plant to sport in several places at one time. This has happened with Louis Bochmer and often with the Queen of England type of incurved.

In conclusion, I wish to commend the new system of points adopted by the society and to thank it for doing me the honor of this invitation. I am sorry I cannot be with you in person.

Chicago.

STATE OF THE MARKET.—ROSES MORE PLENTIFUL AND CARNATIONS SHORTEN UP.—SHIPPING BUSINESS CONTINUES GOOD.—ALARM OVER RUMORED ACTION OF EXPRESS COMPANIES.—NO MORE LIABILITY FOR FREEZING.—DOINGS OF GROWERS, WHOLESALERS AND OTHERS.—NOTES AND VISITORS.

Since Thanksgiving trade has continued brisk and prices have been well maintained, rather more above than under the holiday quotations. The general tendency has been toward a weakening in the lower grades of roses and stiffening in the lower grades of carnations, but on Wednesday this latter item lost much strength. The conditions prevailing at Thanksgiving have been practically reversed, although the change has not been a sharp one. Now the supply of roses is on the increase, and the cut of carnations has been declining. Beauties have continued practically out of the market. The receipts of all the houses combined have not been more than what any one of the big shippers handled a month ago. As a consequence there has been a great deal of disappointment on the part of those ordering these goods without a full knowledge of the market situation. There seems to be a better call for white roses than for others, and as a result most of the houses are selling the lower grades of Bridesmaid somewhat under the value of Bride. The Liberty crop also seems to be off with most of the growers of this specialty. The receipts of carnations were not so large this week as had been anticipated and shippers on several days billed out the lower grades somewhat above the printed list. Violets were very scarce at the beginning of this week, a condition unprecedented this season. Prices ranged up to \$2 per hundred and some days it was impossible to supply the call at that figure. What few chrysanthemums still remain are very poor. Poinsettias are coming along steadily now and are seen in most of the retailers' windows. The price of ferns has advanced to \$2 per thousand.

Considerable perturbation has been the result of the announcement that express companies, on December 12, double the rate on cut flowers, except where the shipper releases the company from liability in case of freezing. The Wholesalers' Association took up the matter at its weekly dinner at the Bismarck on Tuesday and appointed a committee consisting of Peter Reinberg, L. Coatsworth and C. L. Washburn to see what can be done in the matter. The association had no authoritative notice of the intention of the carriers, news of the intended move having been received in a letter of warning from Nathan Smith & Son, of Adrian, Mich., whose attention was called to the matter by the agent of the U. S. Company several days before anything was heard of it in this market. It is also under-

stood that the express companies will shortly decline to pick up empties. Heretofore the wholesale flower trade has enjoyed a special privilege in this particular, the express companies having for years required the South Water street dealers and other large shippers to deliver empties at the respective depots. The present rumor that after January 1 the privilege will be withdrawn is therefore not a surprise. The association appointed G. H. Pieser to get the facts.

Little is being said by the promoters of the new flower market but it is heard on the street that three-fourths of \$5,000 capital stock has been subscribed by some twenty-three parties and that Emil Buettner will accept the presidency of the corporation when formed. It is also stated that none but those who will sell their own stock on the floor of the exchange are being accepted as stockholders and that the sentiment is against opening in the immediate neighborhood of the present cut flower houses.

Mat. Weber, who was foreman of the carnation department at Peter Reinberg's, died November 28, of pneumonia. He was 35 years of age and leaves a wife and three children. Mr. Weber had been with Mr. Reinberg for seven years and was esteemed as one of the best men Mr. Collins ever had in his force. His family are left with a comfortable home and \$3,000 in life insurance.

Now that Thanksgiving is far enough past to afford the proper perspective, it seems evident that the demand was something above that of previous years, but that the shortage of Beauties and the poor quality of the remaining chrysanthemums served to cut down the aggregate of sales to a figure under the total of a year ago.

The Horticultural Society of Chicago offered this autumn the largest sum in premiums in its history and the proportion of premiums won to those offered was much larger than usual. The society, owing to the favorable rental at the Art Institute, will be in good financial condition for the coming year.

Sam. Pearce is marketing large quantities of excellent Paper White narcissi and has a large stock of healthy and vigorous Harrisii and longiflorum lilies to bloom after Christmas. The azaleas at this place are also very fine, a large number being brought on for the holidays.

E. E. Pieser calls attention to the fact that every article of one's daily needs, food, fuel, apparel and all the luxuries except cut flowers, are from fifteen to forty per cent higher than a year ago. In cut flowers there has been a decline in value on the average.

J. D. Thompson goes to Richmond, Ind., to-day to see the sights. He has been figuring up and finds that he has up to date cut more than two blooms per plant from Enchantress, while Lawson, in splendid condition, has given one and a half.

George Reinberg is in the market for about two car-loads of glass, planning to put up a range of thirteen houses 26x265 early next spring. He has been negotiating for the Schater property adjoining his, but the deal is off.

August Jurgens has a heavy stock of poinsettias, large and small, and is picking his usual supply of lily of the valley. Mr. Jurgens has been making some changes about his place and has nearly completed a new office.

Weber Brothers have moved 4,500 longiflorum lilies into the space recently

occupied by their chrysanthemums. Their Brides and Bridesmaids are again coming on in fine shape.

The Retzer-Fuchs establishment, it is reported, will be resold, the necessary funds to cover proper legal settlement not having been paid in by the purchaser.

Both C. L. Washburn and O. P. Bassett are at Alma, Mich., this week, at the bedside of Mrs. Washburn, whose life is despaired of.

Wietor Brothers had a fine lot of carnations for Thanksgiving and their roses promise well for Christmas.

The first car of holly for the season was received by Vaughan's Seed Store on Monday.

Miss Bessie Hortop, of Denver, Col., passed through the city this week, returning home.

Sam. Pearce on Wednesday became the happy father of a very lusty baby boy.

It is reported that the West Park gardeners are trying to form a union.

N. J. Wietor has welcomed a new boy, eleven pounds, into his home.

A. C. Kohlbrand is again doing duty at Amling's, after an illness.

Edgar Sanders is steadily improving in health.

Visitors: George Hunt, Terre Haute, Ind.; J. W. Hulsizer, Grinnell, Ia.; John Burton, Philadelphia; John N. May, Summit, N. J.; O. L. Baird, Dixon, Ill.; Chas. Chadwick, Grand Rapids, Mich.; Hester A. Getz, Cleveland, O.; H. E. Philpott, Winnipeg, Manitoba; Wm. Bentzen, of the Bentzen Commission Company, St. Louis.

Boston.

BUSINESS TAKES A BRACE.—NO COMPLAINTS ARE HEARD.—ALL LINES OF THE TRADE ENJOY A PROSPEROUS PERIOD.—VALUES ADVANCING.—VISITORS FROM HERE AND THERE.—A GOOD SEEDLING CARNATION.—VARIOUS LOCAL AND OTHER NEWS NOTES.

It is very pleasant to be able to record this week a welcome variation from the reports of trade condition as given for a number of weeks past. Business is acknowledged generally to be good and this information is given by the wholesalers with an illumination of the features which fully vouches for its sincerity. As to the retail storekeepers, their idea of what constitutes good business runs somewhat counter to the views of the growers, as a rule, but it needs no assurances from them to indicate that everything is prosperous with them also, despite the very serious setback they suffered from the stormy weather of Thanksgiving. Indeed, the retailers have had nothing to complain of all through the fall. They have secured their flowers at low figures, have had pretty nearly their own way as to choice of material and have been able to keep the usual number of clerks a-going. Naturally they do not take kindly to the advancing values of choice grades of stock and more or less skirmishing is going on, the scarcity of coal and the proximity of the holidays furnishing a double incentive to the sellers. The change in quality of stock coming in since the advent of wintry days is remarkable. Roses have improved greatly and already carry that crisp and sturdy bearing characteristic of mid-winter crops. The color, also, in Bridesmaids has been much enhanced by the favorable weather conditions. Carnations are plentiful and prices moderate.

Among the distinguished callers last week was D. B. Long, of Buffalo. Dan's card represents him to be a publisher, but

the gentleman is much more than that—he is an inventor. P. Welch's advice to him to keep on inventing until he has struck something with "millions in it" is being assiduously followed, it would seem. This time it is a line of useful "plant clothing" that he spreads before the eye of the prospective buyer. Another very welcome visitor was "Tom" Williams, foreman at John H. Taylor's place at Bayside, N. Y. Mr. Williams didn't stay long enough, arriving Saturday morning and departing Saturday night, which, considering this was his first introduction to the Club, was much too hasty an exit. He managed to take in the Waban Rose Conservatories, however, in his tour of inspection and was duly impressed with Mr. Montgomery's grafted roses. Paul Berkowitz is with us this week. He is sure to go away with a good book full of holiday orders, for Paul is popular in Boston. E. J. Harmon, of Portland, was a visitor on Monday, sizing up the Christmas prospects.

The new white carnation *The Queen*, which is about to be disseminated by the Little South Floral Company and S. J. Goddard, gives every evidence of its ability to fill the long-felt want for a thoroughly good commercial white. As seen growing at the Little South Floral Company's greenhouses, where there are 4,000 plants in the benches, it is a sight well worth inspection. In all the desirable points of size, build and fragrance of flower, length and strength of stem it is well equipped and the most notable feature is its rapidity of growth and profuseness of bloom as compared with other whites of good repute growing under identical conditions in the same houses. All the carnations at this place are in excellent shape but *The Queen* is decidedly in the lead. Having been grown for six years, its qualities have had time to become permanently fixed. The parentage is *Daybreak* crossed with a seedling from Scott and Nicholson.

Begonia Gloire de Lorraine will be the flowering plant par excellence again in this market for the holidays. Not only is it vastly superior to all other begonias in keeping qualities after its transference to the dwelling house, but as grown in this section, at least, it is the best in this respect in the whole line of plants usually grown for dwelling house blooming, giving a length of abundant and continuous inflorescence that nothing else can rival. If the experience elsewhere has been different the cause must be looked for otherwise than in the traits of the variety.

One of the special prizes which has not been competed for as it should be, at the Boston exhibitions, is that for plants and flowers of the various seedling chrysanthemums raised by the late H. A. Gane. It is very appropriate that the man who originated the peerless Mrs. Jerome Jones should have his work commemorated as was contemplated by his daughter, for whom this variety was named, when she donated the prize fund, and it is hoped that next year may see a full display of Mr. Gane's productions.

The annual exhibition of children's herbariums under the direction of the committee on school gardens was held at Horticultural Hall last week. As usual the exhibits were of a high order of merit and very interesting. Nearly 1,000 sheets of specimens of New England native plants were displayed.

MONONGAHELA, PA.—James A. Keeney is adding a vegetable forcing house to his equipment. The new structure will require 6,000 feet of glass.

Philadelphia.

BUSY WEEK FOLLOWS THE DAY OF THANKSGIVING.—GOOD STOCK IN DEMAND AND PRICES MOVE UPWARD.—ALL ABOUT SUPPLY.—THE CLUB MEETING.—NEW CHRYSANTHEMUMS.—VISITORS AND NOTES.

The past week has been the busiest of the season. There was the usual large demand for Thanksgiving day and again on Saturday the demand swept the market bare. The annual foot ball game between the Annapolis and West Point teams, which is played on Franklin Field, brings many visitors, people of note, from out of town, and the many dinners and other functions given in their honor, together with the flowers for the game, taxes our facilities to the utmost. Violets, particularly, were in favor and there were not near enough to go around. Prices advanced to \$1.25 per hundred. Beauties range higher, from 50 cents to \$1 per dozen being added to each grade. Teas are also higher, \$4 to \$10 per hundred, and the best grades very scarce at the price. Bridesmaids are now of good color and the specials can be offered without fear of criticism. Carnations are in good demand; in fact, where there was a glut two years ago there is now a scarcity and the sidewalk fakirs are getting 40 cents per dozen, which for the quality is a good store price. Chrysanthemums are about over. Golden Wedding was a great seller last Saturday; in fact, all choice flowers were quickly picked up at from \$2 to \$2.50 per dozen. Here is a pointer for the growers: Have a house of Golden Wedding for Thanksgiving week. Fred. Ehret has had some fine Mrs. Chadwick which have sold well at from \$2 to \$2.50 per dozen. Valley has sold well. S. S. Pennock handles the bulk of the stock in this market and has a large shipping trade.

The last club meeting was favored with "a review of the newer chrysanthemums," by Edwin Lonsdale, whose opportunities as secretary of the C. S. A. and in other respects, are exceptional for summing up the points of the various novelties introduced in recent years. John G. Esler, of Saddle River, N. J., was at the meeting and told us about the prosperity of the Hail Association and the increase of his local trade, which now enables him to dispense with the valued and ever to be esteemed aid of the commission man, as he now uses up all he grows at home. The feature of the January meeting will be a smoker, the details of which have been left in the hands of the house committee, with the entertainment committee added. Robert Craig & Sons exhibited a vase of their new carnation, *Adonis*, which was favorably reported on by the committee, and showed a distinct improvement in size and quality over the exhibit of a month ago.

The market is moving along nicely and is already a factor in the wholesale business. The offices are now about completed and additional telephones have been put in. If you have the Keystone system and desire to call the store, all is well, but to use the Bell telephone it takes a dime in the slot. In these days of competition it is a crime to pay it. Leo. Niessen is on the spot with greens of all kinds. Several growers now have their stalls decorated with foliage plants and others in flower. This feature, if kept up, will be a great convenience and eventually work up trade on the lines of the Covent Garden, of London.

Preparations for the holidays are now in order. The indications are that there will be plenty of holly and other Christ-

mas greens, and from the advance samples the quality will be about as usual.

K.

New York.

MARKET IN FAIR SHAPE AND PRICES WELL MAINTAINED.—VALUES ON EXCEPTIONAL MATERIAL FAR ABOVE A FAIR REPRESENTATION OF CONDITIONS.—CHRYSANTHEMUMS ARE PRACTICALLY OUT.—NOTES.

This week started out with a fairly active flower demand and only a moderate supply of really fine material. Prices have held up well to the Thanksgiving day scale and the views generally expressed by wise judges of the market are that it would be better in the long run to go slowly on any attempt to inflate values further until toward holiday time. The middle of December usually sees a discouraging slump, this feature having been a regular thing for a number of years past. It is hoped that by prudent nursing the very amicable relations existing between the public and the growers as to flower values at the present moment may not be disturbed and the outlet kept peaceably open. Some instances of seemingly high prices are on record for the past few days but in every case it is also recorded that these were for very exceptional grades of flowers. Violets are a good example of this, the limited highest grade of the top-notch grower being sold at from \$2.25 to \$2.50 per bunch of 100 blooms, while the general run of good violets scarcely brings half those figures and a very large proportion of the lower grades are well sold if they bring 50 cents a hundred. A limited number of choicest *Bride* and *Bridesmaid* roses were sold at Thanksgiving at \$12 to \$15 per hundred and *American Beauty* at 75 cents each, but these figures do not fairly represent the normal market values. Chrysanthemums are now narrowed down principally to Mrs. Jerome Jones and Major Bonnaffon and there are but few really good specimens of these. Ford Brothers show a good line of Bonnaffons every afternoon.

John Harrison has entered the ranks of the introducers once more and will present a new white carnation the coming spring, named *White House*.

Alex. S. McLennan, gardener on the estate of Bayard Cutting, at Oakdale, Long Island, died on Sunday, November 30.

M. A. Hart has sold out his wholesale cut flower business at 48 West Thirtieth street to James Purdy.

Visitors: J. T. Butterworth, South Framingham, Mass.; Ed. McMulkin, Boston.

DECATUR, ILL.—The thirteenth annual meeting of the Central Illinois Horticultural Society will be held here December 11-12.

DES MOINES, IA.—The thirty-seventh annual meeting of the Iowa State Horticultural Society will be held here December 9-12.

CHEROKEE, IA.—J. H. Palmer has built up a nice business. During the past summer he added several new houses to his facilities.

MARSHFIELD, WIS.—Robert I. Macklin is having a prosperous season and his stock, principally miscellaneous plants, is in fine condition.

IRON MOUNTAIN, MICH.—G. F. Flowman has installed a new boiler at the Sunnyside Greenhouses and contemplates adding largely to the plant next season.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
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The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines only.

Orders for less than one-half inch space not accepted.
Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

WHAT is the difference between Yellow
Chadwick and Eclipse chrysanthemums?

It is stated that the *Horticultural
Trade-Advertiser* has discontinued publi-
cation.

ONE of the first bills introduced in the
present session of congress provides for
the removal of the duty on window glass.

ADIANTUM FARLEYENSE is being success-
fully grown by James S. Wilson, at
Vaughan's Greenhouses, Western Springs,
Ill., in pots containing only fine coal
ashes.

ONE competent to judge in such matters
says that the holly wreath on the front
cover of the Christmas number of the
Ladies' Home Journal was worth at
least \$5,000 to the florists' business.

GEORGE HOPP, of Grand Rapids, Mich.,
is growing a new rose, claimed to be a
seedling of Bridesmaid and Mme. Caro-
line Testout. It shows very little of the
character of the former variety, but is
said to bloom more freely than either of
the foregoing.

THE retailers will serve not only their
own interests but those of the whole
trade if they will refrain from telling the
newspapers the not infrequent stories of
high prices on cut flowers for Christmas.
Instead let them expatiate on the excel-
lent qualities and popularity of the
medium-priced grades.

Chrysanthemum Society of America.

At the exhibition of the C. S. A. held
jointly with the Horticultural Society of
Chicago, November 11-15, 1902, the fol-
lowing varieties were exhibited:

Yellow Eaton, exhibited by the E. G.
Hill Company, Richmond, Ind., scored
89 points commercial scale. R. E. Rich-
ardson, by same exhibitor, pink, scored
92 points. Columbia, also by same
exhibitor, pink, scored 90 points.

Golden Chadwick, exhibited by
Vaughan's Seed Store, Chicago, Ill.,
scored 89 points.

Nathan Smith & Son, Adrian, Mich.,
exhibited the following; H. W. Buckbee,
yellow, which scored 92 points; Mrs. J. J.
Mitchell, cream color, scored 90; Minnie
Bailey, pink, scored 90.

The judges were Messrs. John F. Cowell
and Emil Buettner.

Chicago, November 22.—Jacob Schulz,
Louisville, Ky., exhibited a sport from
Merry Christmas, dull white, tips of
petals yellow, incurved, which scored 60
points commercial scale.

EDWIN LONSDALE, Sec'y.

Cut Flower Insurance.

The express companies are going into
the insurance business. The December
rate sheets contain the following new
classification:

CUT FLOWERS:—Double Merchandise rates.
When a release has been signed by regular ship-
pers, exempting the express company from all
loss or damage from freezing, their shipments of
cut flowers may be charged for at merchandise
rates. In effect December 10, 1902.

Of course, in mild weather, no one will
think of paying the double charge, but in
periods of extreme cold will it not be
cheap insurance?

Greenhouse Building.

Noroton, Conn.—J. Phelps Stokes,
house 60x125.

Monongahela, Pa.—Jas. A. Keeney,
vegetable house.

Lapeer, Mich.—W. H. Watson, house
22x200.

Seattle, Wash.—Woodland Park Floral
Company, range of houses.

Chicago, Ill.—George Reinberg, range
of 50,000 feet.

East Mansfield, Mass.—Duston & Sons,
vegetable house 20x100.

American Carnation Society.

The Chicago Carnation Company,
Joliet, Ill., registers the name *Fiancee* (no
description of the variety given).

W. N. Rudd, Mt. Greenwood, Ill., regis-
ters *Phyllis*, color Daybreak style, per-
haps a little more on the salmon and
even throughout; high built, fringed, fra-
grant, good stem and early and continu-
ous bloomer.

Dailedouze Bros., Flatbush, N. Y.,
register *Fragrance*, color a bright satin
pink, size medium, stem good and long,
calyx best we have yet seen, fragrance
full clove and very powerful; a good,
steady bloomer, strong and healthy; has
been shown as *Blush Seedling*, also as
No. 3.

John G. Sholl, Burlington, N. J., regis-
ters *Success*, color light pink, shade of La
France rose, without a trace of blue or
purple, strong and rapid in growth, pro-
ducing stiff-stemmed flowers of large
size; calyx never bursts; an early and
tremendous bloomer.

ALBERT M. HERR, Sec'y.

The Secret of Western Success.

ED. AM. FLORIST:—Comparing recent
notes on exhibitions given in eastern and
western cities, Kansas City, with its popu-
lation of only 200,000, may well feel
proud of its recent flower show. They
may call it a passing fad, nevertheless
this was the second successful attempt
and both have been record-breakers as
far as attendance was concerned, and
with a liberal amount of printers' ink
backed up by a flower show in a true
sense, the attendance next year will, I
believe, be even larger. The liberal and
broad minded policy of our Kansas City
papers is in the greatest measure
responsible for the success of the show.
Column after column of good reading
appeared in all our daily papers from six
weeks to two months previous to the
show and during the week of the show
a special man was detailed from each
paper to keep things hot. I venture to
say that the percentage of Kansas City's
population who are true lovers of flow-
ers equals, or is even greater than, that
of any other city of its size in this coun-
try. If this is not true why are our
shows so well patronized? It would

appear to me that those who write
their views and beliefs of our exhibition
would find conditions much different
were they to pen them from a more
advantageous point of view. Incident-
ally the show was not given for reve-
nue only, but mainly for the flower-
loving public, at the nominal admission
of 25 cents. W.

Sweet Pea Certificates.

I note S. B. Dicks' correction regard-
ing the above and much regret the error.
I am not on the committee, so of course
was not present when the varieties were
submitted, but I certainly had it on good
authority (or what I believed good) that
they did gain the awards mentioned in
my notes. And since reading Mr. Dicks'
correction I have referred to the Eng-
lish papers and find the same error has
occurred. With regard to Mr. Dicks'
further information respecting Dorothy
Eckford, he omits to state that this was
submitted to the committee under the
name of *White Queen* and that it was in
Messrs. Dobbies' collection but was after-
wards proved to be identical with Eck-
ford's variety. There was a good deal
of discussion regarding this variety, as it
had appeared among seedlings of Miss
Willmott in several different places. It
afterwards turned out that the seed had
been accidentally mixed by the raiser, by
which means several growers secured it
before the raiser was offering it. H.

Spiraea Aruncus Kneiffii.

This is a veritable gem for a cool,
moist, shady spot. In foliage it is quite
distinct from all other spiraeas and it is
very pleasing, with its finely-divided fern-
like leaves, which are surmounted by a
very dense, feathery mass of creamy
white flowers on stems some two or
three feet high and very much branched.

If planted in the open the foliage is
very apt to burn before the flowers
appear, the brown color detracting very
much from its beauty. Neither should it
be planted by strong surface rooting
trees or shrubs, such as maples, for two
years' experience has proved this course
detrimental. Its main requirements seem
to be a partially shaded position and a
good deep, rich, moist, open soil.

HERBERT GREENSMITH.

Acetylene Gas.

In a recent bulletin of the New Hamp-
shire Experiment Station, Prof. F. W.
Rane gives details of some experiments
with acetylene gas light in greenhouses,
showing its effect on plant growth, from
which the following deductions have
been made:

1. That the acetylene gas-light has a
marked effect upon greenhouse plants.
2. That no injurious effects resulted
from the use of the acetylene gas-light.
3. The light has a stimulating influ-
ence on most plants, and appears to be
beneficial to some plants that are grown
for foliage, such as lettuce. The lettuce
stood more erect and weighed more.
4. Most plants tend toward a taller
growth under the light.
5. It is doubtful whether this light can
be used in the greenhouse from an eco-
nomic standpoint for growing plants
alone. While its effect is marked in the
dark days of winter, little difference
seems to be shown at other seasons of
the year, when there is more sunshine.
6. There are many points about the

acetylene gas-light that make it desirable for lighting greenhouses. It is not expensive, is easily piped, and comparatively simple to run.

Detroit.

THANKSGIVING TRADE MEETS ALL EXPECTATIONS.—A LITTLE AHEAD OF LAST YEAR.—CARNATIONS THE ONLY PLENTIFUL ITEM.—CLUB HAS GOOD SESSION.—NEW RANGE PLANNED.

Thanksgiving trade was fully up to the expectations of the local dealers and in many cases surpassed that of a year ago. Purchases were confined almost exclusively to cut flowers for, although there was quite a stock of blooming plants, they met with rather slow sale. Roses were short in supply and the quality not up to the standard. Beauties sold well and the demand for them exceeded the supply. Violets were in good demand, but they, too, were short in supply. They wholesaled for \$1 and \$1.50 per hundred and retailed for \$2.50 and \$3, and at the latter figure most the stock was disposed of. Some apprehension was felt in the early part of the week about the supply of carnations but it developed that there were sufficient for the trade and it was with difficulty that the retail prices were maintained in proportion to the wholesale prices prevailing, which were \$3 and \$4 per hundred. Chrysanthemums were much in evidence and sold better than at any other period of their season. At present no special activity in retail circles is noted, but violets are still selling well and the supply is hardly equal to the demand.

The club meeting Wednesday evening was well attended and the proceedings full of interest. The question box furnished material for lively discussions. A vase of Enchantress carnation sent by J. D. Thompson, Joliet, Ill., was on exhibition. As many of the growers present have ordered largely of this variety, much interest centered upon it. A petition was circulated for signatures, to be forwarded to Washington, urging the removal of the tariff on glass, as proposed by the bill introduced in congress, December 1, by Representative H. C. Smith of this state. S. S. Skidelsky gave a review of the newer carnations as seen on his travels. At the next meeting consideration will be given to the matter of a flower show for next year.

G. H. Taepke has purchased two acres of land on McClelland avenue, near Gratiot, four miles from the City Hall and just inside the city limits. In the spring Mr. Taepke proposed to build a dwelling and several greenhouses and will grow only cut flowers, retaining his present houses on Elmwood avenue for pot plants.

John Carey, of Mt. Clemens, is again having trouble with his roses, resulting from the use of the mineral water of that place. He is now engaged in building cisterns to collect rain water.

Miss Anna J. Schulte was recently married to Wm. Schiffman. She will continue her business as previously.

Geo. A. Rackham is suffering from a painful injury resulting from the fall of a heavy valve on his head.

John Breitmeyer's Sons are doing some extensive decorations at Saginaw this week.

Wm. Dilger is on a business trip to Bay City and Saginaw. J. F. S.

DOYLESTOWN, PA.—Winfield J. Schmutz was married Thanksgiving day to Christiana Van Meran, of Camden, N. J.

Buffalo.

NO COMPLAINTS TO BE MADE AT THE STATE OF TRADE.—A BUSINESS CHANGE.—PERSONAL AND TRADE DOINGS.

Trade for Thanksgiving was about all that could be expected. Roses of good quality were scarce. Chrysanthemums held on until Thursday, when the quality took a big drop. Violets were plentiful, with only a moderate demand. Carnations were plentiful and good. Primrose plants sold well in single pots and pans. One store had a number of poinsettias, which sold well.

The store formerly conducted by W. A. Adams, and late by W. F. Bullock & Company, has again changed hands. It is now run by Thomas Coleman, window decorator for the H. A. Meldrum Company, who also is an adept at dinner table work. W. H. Grever is manager.

Palmer had the Goodyear wedding this week, which was quite an elaborate affair. In the decorations about twenty-five cases of wild smilax were used, also a big lot of the best flowers.

Mr. Schnell, the manager of Palmer's branch store, puts in some very neat windows and every vase shows to good advantage in the store.

Funeral work is rather quiet and only a limited number of receptions are scheduled for this week.

S. A. Anderson took a trip to Jamestown Monday. BISON.

EAU CLAIRE, WIS.—A. F. T. Lauritzen has been in business here but a brief period but he found trade so good that last summer he added largely to his glass. Business is good now.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By rose propagator; 24 years' practical experience. Winter grafting a specialty. Address PROPAGATOR, 415 South Main St., Los Angeles, Cal.

SITUATION WANTED—By boy 16 years old, with 1½ years' experience in floral business; willing to work out. L. BECKERS, 272 W. North Ave., Chicago.

SITUATION WANTED—As working foreman; roses, carnations, 'mums and general stock; married, no children; none but a first-class place wanted. Address WORKER, care American Florist, Chicago.

SITUATION WANTED—By 1st or middle of April, as working foreman in a large retail place, by a man of large experience, where full charge is given and results expected; can show you a few things. GERMAN, care Am. Florist.

SITUATION WANTED—As working manager, by a man of push and energy; grower of All Beauties, teas, carnations, 'mums, violets decorative and bedding plants. Only a first-class, large retail place where things are done right and good wages paid. B B, care Am. Florist.

WANTED TO RENT—Greenhouses of 20,000 to 25,000 feet of glass; wanted by early spring; no old stock wanted. Address P W, care American Florist.

WANTED—Good all-around cut flower grower, single, for a place near Kansas City. Good pay to the right party. Address GROWER, care American Florist.

WANTED—By young business man with a few hundred dollars, correspondence with prosperous florist who will sell working interest. Address H M J, P. O. Box 233, Erie, Pa.

WANTED—Single man, German preferred, with some experience in carnations and general bedding stock. References required. Salary \$25 per month, board and room. Jos. F. KLIMMER, Des-plaines Ave. and Harrison St., Oak Park, Ill.

WANTED—Thoroughly competent gardener and florist, of foreign descent, to manage on shares a fine ten acre garden, and use of 4,000 feet of glass. Trade well established. Best references required. Address P M A Fayetteville, N. Y.

WANTED—A good experienced man to work in retail department of a Western Seed House. Must be intelligent and have a thorough knowledge of garden and flower seeds, bulbs, etc. State salary expected. Address SEEDS, care American Florist.

WANTED—A man who understands the growing of 'mums, carnations and roses, and has a general knowledge of gardening; one with a small family preferred. The position is on a private estate, and the right man will have a permanent home and good pay. Address, giving references, F. P. DAVIS, Mobile, Ala.

WANTED—An active man of business ability, who is a first-class grower of roses, 'mums, carnations and general stock. Must be able to manage help and competent to run the business. To such a man with \$2,000 in cash a partnership is offered in long established and flourishing business in Philadelphia. Address CONFIDENTIAL, care American Florist.

WANTED—A married man without children, German-American preferred, to take charge of nursery where the growing of small stock for transplanting is made a specialty. Must understand the propagation of hardy shrubs and evergreens from cuttings, be sober, industrious and well recommended; \$50 per month and a house. A permanent position to the right party. Address Jos. W. VESTAL & SON, Little Rock, Ark.

FOR SALE—Horizontal tubular boiler 48x15 with plug hat dome and with 39 3/4-in. flues, very suitable for heating hot houses. Apply to WISCONSIN BOX CO., Wausau, Wis.

FOR SALE—An old established greenhouse business; entire plant rebuilt; steam heat. With all the ground or part; also with or without residence. Situated in Cleveland, O. A bargain. Address O K, care American Florist.

GREENHOUSE For Sale, also Residence Property. 1,100 feet of glass, hot water heater; good prosperous city, population 8,000; no opposition; good location for experienced man. Good reasons for selling. For full particulars, write E. GREENWOOD, LINTON, IND.

SITUATION WANTED

AS HEAD GARDENER, on private place, by a thorough, competent, reliable, all-around man of 22 years' experience on largest establishment in England, 9 years as head, last 3 years head gardener and rose grower to member of National Rose Society; age 36, married, two children. Copies of testimonials and references on request. Address F H, care American Florist.

WANTED.

A general gardener for private residence with small greenhouse, located in south western state. A married man with small family, or without, preferred. A good and lasting position for the right party. Address K O, care American Florist, Chicago.

Wanted, Devine or Kroeschell Boiler SECOND HAND.

Myers Bros. 116 So. 17th St. Philadelphia, Pa.

FOR SALE, GREENHOUSES

Well established, in good repair, 12,000 ft. glass, fully stocked with fine Carnations, Callas, Smilax; full supply of everything necessary; fine dwelling house; hot water heating; will furnish five-year lease at the time; nine miles from Chicago courthouse. Price \$4,000; three-fourths cash. Good reason for selling. Address E, CARE AMERICAN FLORIST.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.



WHEN you want Flowers, any and all kinds, order from DEAMUD. He has in quantity the following:

ORCHIDS, Valley, Violets, Beauties, Tea Roses, Carnations, Chrysanthemums.

J. B. Deamud,
51-53 Wabash Ave., Chicago.

Caldwell's Quality Counts Brand Wild Smilax now on hand.

No 1. \$2.50
 No 2. \$3.25
 No 3. \$3.75
 No 4. \$4.50
 No 5. \$5.00
 No 6. \$6.00

The F. R. WILLIAMS CO.
WHOLESALE FLORISTS.
 Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.
 Telephone Connections. **CLEVELAND, OHIO.**

Lily of the Valley
From Cold Storage
 \$15.00 per 1000; case of 2,500, \$35.00; per 100, \$1.75.
FINEST CUT VALLEY always on hand in large quantities.
H. N. BRUNS,
 1409-1411 W. Madison St., CHICAGO.

AMERICAN FLORIST ADS
ALWAYS DO BUSINESS
 Week days and every day, Sundays and holidays,
ALL OVER THE COUNTRY
AT HOME AND ABROAD.

GALAX LEAVES AND
Leucothoe Sprays.
J. G. LOVEN, MONTEZUMA, N. C.
...GEO. M. KELLOGG...
 Largest Grower of... in the West. **Cut Flowers**
 Give us an order and we will please you.
 Our Greenhouses at PLEASANT HILL, MD.
 Our Store, 906 Grand Ave., KANSAS CITY, MO
 LONG DISTANCE PHONE AT EITHER PLACE.
 ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Wholesale Flower Markets

• MILWAUKEE, Dec. 4.

Roses, Beauty, long, per doz.	2.50@3.00
" " med. "	1.00@1.50
" " short "	.50@ .75
" Liberty.....	8.00@12.00
" Bride, Bridesmaid.....	6.00@ 8.00
" Meteor.....	6.00@ 8.00
" Golden Gate.....	6.00@ 8.00
" Perle.....	6.00@ 8.00
Carnations.....	2.00@ 4.00
Violets.....	1.00
Romans, Paper Whites.....	2.00@ 3.00
Callas.....	10.00@12.00
Adiantum.....	.75@ 1.00
Smilax.....	15.00
Asparagus.....	65.00

• PITTSBURG, Dec. 4.

Roses, Beauty, specials, per doz.	5.00@6.00
" " extras "	3.00@4.00
" " No. 1 "	1.50@2.00
" " No. 2 "	.50@1.00
" Kaiserin.....	2.00@ 6.00
" Bride, Bridesmaid.....	2.00@12.00
" Meteor.....	4.00@ 6.00
" Liberty.....	4.00@10.00
Carnations.....	1.50@ 3.50
Paper Whites, Romans.....	3.00@ 4.00
Lily of the valley.....	4.00@ 5.00
Violets.....	50@ 2.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50
Asparagus, strings.....	40.00@75.00
" Sprengerl.....	2.00@ 3.00

CINCINNATI, Dec. 4.

Roses, Beauty.....	10.00@50.00
" Bride.....	3.00@ 6.00
" Bridesmaid.....	3.00@ 6.00
" Meteor.....	3.00@ 6.00
Carnations.....	1.50@ 4.00
Chrysanthemums.....	4.00@15.00
Lily of the valley.....	4.00
Harrisil lilies.....	15.00
Romans.....	3.00
Paper Whites.....	3.00
Asparagus.....	50.00
Smilax.....	12.50@15.00
Adiantum.....	1.25

St. LOUIS, Dec. 4.

Roses, Beauty, long stem.....	35.00@50.00
" Beauty, medium stem.....	15.00@25.00
" Beauty, short stem.....	4.00@10.00
" Bride, Bridesmaid.....	3.00@ 8.00
" Golden Gate, Carrot.....	3.00@ 8.00
" Meteor, Perle.....	3.00@ 8.00
Carnations.....	1.50@ 3.00
Chrysanthemums.....	4.00@25.00
Tuberoses.....	4.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	12.50@15.00
Asparagus Sprengerl.....	1.50
" Plumosus.....	.75@ 1.00

E. H. Hunt,
WHOLESALE.....
Cut Flowers
 THE "OLD RELIABLE,"
 76 Wabash Ave., CHICAGO.
Poehlmann Bros. Co.
 Wholesale Growers of
 and Dealers in **Cut Flowers**
 All telegraph and telephone orders given prompt attention. 35-37
 GREENHOUSES: Morton Grove, Ill. Randolph Street, CHICAGO, ILL.

Bassett & Washburn
 76 & 78 Wabash Ave., CHICAGO.
 Wholesale Dealers and Growers of **Cut Flowers**
 GREENHOUSES: HINSDALE, ILL.

The Cincinnati Cut Flower Co.,
 437-439 Main St. WHOLESALE FLORISTS, CINCINNATI, O.
 Consignments Solicited. Special Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.
Michigan Cut Flower Exchange.
 Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around. BRONZE GALAX, \$1.00 per thousand.
26 Miami Ave., DETROIT, MICH.

H. G. BERNING
Wholesale Florist
 1322 Pine St., ST. LOUIS, MO.

Frank M. Ellis,
WHOLESALE FLORIST,
 1316 Pine Street, ST. LOUIS, MO.

C. A. KUEHN,
Wholesale Florist,
 1122 PINE STREET, ST. LOUIS, MO.
 A complete line of Wire Designs.

Pittsburg Cut Flower Co. Ltd
WHOLESALE FLORISTS.
 Pittsburg, Pa.
 Please mention the American Florist when writing.

Our Rose Crops



ARE coming along nicely and we want to hear from all who are in need. Our Brides and Maids are unexcelled. Carnations are up to all requirements. Send us your orders. "Right goods at Right prices" Don't forget Christmas is only 18 days away. See special adv. on page 701.

E. C. ANGLING,

THE LARGEST, BEST EQUIPPED AND MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32-36 Randolph St. Long Distance 'Phones 1999 and 1977 Central. CHICAGO, ILL.

CURRENT PRICES.

ORCHIDS.	
Cattleyas, per doz.	\$6.00
Cyrtipediums	2.00
BEAUTIES.	
30-in. stems, \$4.00	36-in. stems 5.00
20-in. stems, 2.50	24-in. stems, 3.00
12-in. stems, 1.50	16-in. stems, 2.00
6-8-in. stems, 4-8	
Brides and Maids	6.00 to 8.00
Meteors and Gates	6.00 to 8.00
Carnations, select	2.00
fancies	3.00 to 4.00
Stevia	1.50 to 2.00
Viola, double	1.00 to 2.25
single	.75 to 1.50
Callas, per doz.	4.00 to 5.00
Valley, select	4.00 to 5.00
Asparagus Plumosus, string	50
Sprays, per 100	2.00
Springeri	3.00 to 4.00
Galax, per 100, 1.00	.15
Leucothoe	.75
Alysanthemum	.75 to 1.00
Smilax, per doz.	1.25 to 1.50
per 100	10.00

Prices subject to change without notice.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

BOUQUET GREEN

Best quality at lowest rates. We gather our own GREENS and bring by our own boat direct. Also CHRISTMAS TREES.

Northern Michigan Evergreen Nursery,
SCHOENER TRUMAN MOSS, S. W. Cor. Clark St.
H. Schuenemann, Capt. Bridge, CHICAGO.

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.

600,000 FEET OF GLASS.

Headquarters for American Beauties.

51 WABASH AVE., CHICAGO, ILL.

FRANK GARLAND,

Wholesale Grower of Cut Flowers

SPECIAL ATTENTION GIVEN TO HARDY CUT FERNS
85-57 WABASH AVENUE,
Telephone Central 3284 CHICAGO.

JOHN MUNO,

Wholesale Grower and Shipper of Cut Flowers

Room 221, 51 Wabash Ave., CHICAGO.
TELEPHONE CENTRAL 3598. All telegraph and telephone orders given prompt attention.

RICE BROTHERS

WHOLESALE FLORISTS and FLORISTS' SUPPLIES.

Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.

Special attention given to shipping orders. Send for price list of supplies.

128 N. Sixth St., Minneapolis, Minn.

It is good business policy to mention

The.... AMERICAN FLORIST

When you write to an advertiser.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty....

WHOLESALE GROWER of

CUT FLOWERS

Benthey & Co.

F. F. BENTHEY, Manager.

Wholesale Commission Florists

Consignments solicited.

31-35 Randolph St., Chicago.

Wholesale Flower Markets

CHICAGO, Dec. 5.

Roses, Beauty, 36-inch stems	5.00
" " 30 " "	4.00
" " 24 " "	3.00
" " 20 " "	2.50
" " 15 " "	2.00
" " 12 " "	1.50
" " 6 to 8 " " per 100	8.00@ 8.00
" Liberty	5.00@12.00
" LaFrance, Chateaucy	5.00@10.00
" Bride, Bridesmaid	4.00@ 8.00
" Meteor, Golden Gate	4.00@ 8.00
" Perle	4.00@ 6.00
Cattleyas	\$6.00 per doz.
Viola	.67@1.50
Carnations	1.50@ 4.00
Lily of the valley	4.00@ 5.00
Asparagus, per string, 50	
Adiantum	.75@ 1.00
Common ferns, per 100, 2.00	.15
Smilax, per dozen, 1.50	

Holton & Hunkel Co.

Wholesale Florists,

457 Milwaukee St., MILWAUKEE, WIS.

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO.

Send for weekly price list and special quotations on 1000 lts.

GEO. REINBERG,

Wholesale Grower of Cut Flowers

CHOICE AMERICAN BEAUTIES.

We will take care of your orders at reasonable prices. Prompt attention.

51 Wabash Ave., CHICAGO, ILL.

Galax AND Leucothoes.

Selected, Bright and Brilliant. Wholesale Trade Solicited.....

J. L. BANNER & CO., Montezuma, N. C.

Mention the American Florist when writing to advertisers on this page.

SAMUEL S. PENNOCK,
Wholesale Florist,
 1612-18 LUDLOW ST., PHILADELPHIA, PA.
 Open from 7:30 a. m. to 8:00 p. m.

Choice White Orchids
IN QUANTITY.

GEO. A. SUTHERLAND
 34 HAWLEY STREET, BOSTON.

Best Boston Flowers
ALL SUPPLIES.
 An entire floor Devoted to Stock and Manufacturing.
 Write now for quotations on Chrysanthemums and all seasonable stock
 Telephone 1270 Main.

SPECIALTIES THIS WEEK:
Christmas Evergreens.
 SEND FOR PRICES.

CITY HALL CUT FLOWER MARKET
WELCH BROS., PROPS.
 9 CHAPMAN PLACE, **Boston, Mass.**
 15 PROVINCE STREET,

H. C. RIEDEL. F. D. SPICER.
RIEDEL & CO.
WHOLESALE
Commission Florists.
 34 West 29th Street,
NEW YORK.
 Strictly Wholesale. Correspondence Invited.

THE
NEW YORK CUT FLOWER CO.
 55 and 57 West 26th St.,
WHOLESALE FLORISTS,
 Daily Reports. Weekly Payments.
 TELEPHONES: J. A. MILLANG,
 2239 Madison Sq. 2034 Madison Sq. **MANAGER.**

GEORGE SALTFORD,
Wholesale Commission Florist,
 46 West 29th Street, **NEW YORK.**
 Fair dealing and prompt returns guaranteed.
 Correspondence solicited.
 Author of "How to Make Money Growing Violets."

N. F. MCGARTHY & CO.
Best Quality
CUT FLOWERS
and Supplies,
 Tel. 734 and 64 Main. **84 Hawley St., BOSTON.**

Wholesale Flower Markets

BOSTON, Dec. 3.

Roses, Beauty, Edgely, extra.....	25.00@40.00
" " medium.....	10.00@20.00
" " culls.....	6.00@ 8.00
" " Bride, Bridesmaid, Meteor	2.00@ 6.00
" " extra.....	8.00@12.00
Chrysanthemums.....	6.00@12.00
Carnations.....	1.50@ 3.00
Lily of the valley.....	2.00@ 4.00
Adiantum.....	.75@ 1.00
Asparagus.....	50.00
Smilax.....	12.50@18.00

PHILADELPHIA, Dec. 3.

Roses, Tea.....	2.00@ 4.00
" " extra.....	6.00@15.00
" " Beauty, extra.....	40.00@60.00
" " firsts.....	10.00@25.00
" " Queen of Edgely, extra.....	40.00@60.00
" " firsts.....	10.00@25.00
Carnations.....	1.00@ 5.00
Violets.....	1.00@ 1.50
Lily of the valley.....	3.00@ 5.00
Asparagus.....	25.00@50.00
Smilax.....	12.50@15.00
Adiantum Farleyense.....	8.00@10.00

BUFFALO, Dec. 4.

Roses, Beauty.....	25.00@50.00
" " Bride, Bridesmaid, Meteor	3.00@ 6.00
Carnations.....	1.50@ 4.00
Chrysanthemums, per doz.,	\$2.00@3.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50

The Philadelphia Wholesale Flower Market. Phones, Keystone and Bell.
 1224 CHERRY STREET, PHILADELPHIA.
 Is now open and ready for business. Consignments of good stock solicited, especially Valley, Violets and Carnations. Commission, 10 per cent and \$50 annual stall rent, payable monthly in advance. Flowers, choice of this market, carefully packed and shipped at short notice.
 Please mention the American Florist when writing.

Give Us a Trial. We Can Please You.



Roses, Carnations and all kinds of Seasonable Flowers in stock.
WM. F. KASTING, Wholesale Commission Florist,
 481 Washington St., Buffalo, N. Y.
 Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

Fancy or Dagger Ferns 75c Per 1,000.
BRONZE OR GREEN GALAX \$1.00 per 1000.
PRINCESS PINE, \$6.00 per 100 lbs. LAUREL FESTOONING, 4c, 5c and 6c per yard. Princess Pine Festooning, all grades. Pine Wreaths and Laurel Wreaths, all grades for Xmas. Be sure and send your orders in early and you will get the best to be had.



Millington, Mass.
 Tel. office, New Salem.

N. Y. CUT FLOWER EXCHANGE
 Coogan Bldg. 6th Ave and W. 26th St., New York.
 Open for Cut Flower Sales at 6 o'clock Every Morning.....
DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

THE KERVAN COMPANY

Southern Smilax; Palmetto and Cycas Palm Leaves, fresh and painted; Roping and Wreaths; Fern, Galax, Ivy and Magnolia Leaves, Leucothoe Sprays; Holly; Mistletoe; Mosses—each in its season, and its the season now for each. The best that grows. We have no other sort. Write for our list of stock with prices.

Telephone, 1519 Madison Sq. 20 WEST 27th STREET, NEW YORK.

Beauties and Valley Leo. Niessen,

IN QUANTITIES.

On and after Sept. 15th will be open from 7 a. m. till 8 p. m. until further notice.

WHOLESALE FLORIST,
 N. W. Cor. 13th and Filbert Sts., Phila.

FLOWERS SHIPPED BY

JOHN I. RAYNOR

ARE THE BEST PRODUCT OF THE BEST GROWERS FOR THE NEW YORK MARKET.

Adiantum Croweanum 49 W. 28th Street, NEW YORK.
Sold here Exclusively. Tel. 1998 Madison Square.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.

Are supplying the most superb stock of FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.
SEND FOR QUOTATIONS.

Walter F. Sheridan,
Wholesale Florist,

Telephone 902 Madison Square.

39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square.



MOORE, HENTZ & NASH

Wholesale Commission Florists,

65 and 57 West 26th St., NEW YORK CITY.
Adjoining New York Cut Flower Co. salesroom.
Finest Salesroom in the Trade. Inspection Invited.
All business, selling or shipping, strictly commission.

VIOLETS.

Wholesale WILLIAM GHORMLEY Commission

Daily Receiver and Shipper of Fresh Cut Flowers.

Orchids, Roses, Carnations, Valley, Chrysanthemums.

Telephones 2100 and 2200 Madison Square.

57 West 28th Street, NEW YORK CITY.

JOHN YOUNG

Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.
51 West 28th St., NEW YORK.
Tel. 1905 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN NEW YORK CITY FOR

Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

WM. H. GUNTHER,
30 West 29th St., New York.
Telephone 551 Madison Square.

Frank Millang

Open from 6 a. m. to 5. p. m.

Cut Flower Exchange, 55-57 W. 26th St. NEW YORK.
Phone 299 Madison Square.

ESTABLISHED 1872.

JOHN J. PERKINS,

COMMISSION FLORIST,

Solicits Consignments or Shipping Orders. Satisfaction given in both.

Tel. 858; Madison Sq. 115 West 30th St., New York.

Bonnot Bros.

WHOLESALE FLORISTS.

55 and 57 W. 26th St. New York.
Cut Flower Exchange.

OPEN 6:00 A. M.

An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.

Traendly & Schenck

NEW YORK CITY,

38 W. 28th Street, Cut Flower Exchange.
New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

NEW YORK, Dec. 3.

Roses, Beauty, Edgely, best.....	35.00@50.00
" " medium.....	20.00@30.00
" " inferior.....	5.00@10.00
" Bride, Bridesmaid.....	3.00@15.00
" Meteor, Golden Gate.....	3.00@8.00
" Liberty.....	4.00@20.00
Carnations.....	1.00@3.00
Violets.....	.50@1.50
Lily of the valley.....	2.00@5.00
Chrysanthemums.....	6.00@25.00
Cattleyas.....	35.00@60.00
Dendrobium formosum.....	20.00
Romans, Paper Whites.....	2.00
Smilax.....	10.00@15.00
Adiantum.....	.75@1.00
Adiantum Peter Crowe.....	1.25
Asparagus.....	35.00@50.00
" Sprengerl, doz. bun. 2.00@3.00	

J. K. ALLEN

Wholesale Commission Dealer

— IN —

Cut Flowers

106 W. 28th St., NEW YORK.

Telephone 167 Madison Square.

FORD BROS.

Receivers and Shippers of

FRESH FLOWERS,

111 West 30th St., NEW YORK.
Telephone 157 Madison Square.

REPRESENTING EMINENT GROWERS.

Julius Lang

53 West 30th Street, NEW YORK.

COMMISSION DEALER in FLOWERS
TELEPHONE 280 MADISON SQUARE.

ALEX. J. GUTTMAN,

Wholesale Commission Florist,

A full supply daily of the choicest New York and New Jersey FLOWERS.

52 W. 29th Street, NEW YORK CITY.
Telephone 1738 Madison Square.

A. H. LANGJAHR,

Wholesale Commission Florist,

BEST FLOWERS SHIPPED AT LOWEST NEW YORK PRICES.

19 Boerum Place, Brooklyn, N. Y.
TELEPHONE 939 MAIN.

Hicks & Crawbuck,
WHOLESALE FLORISTS

NEW YORK:
45 West 29th Street.
Tel. 2798 Madison Sq.

BROOKLYN, N. Y.:
108 Livingston Street.
Tel. 3660-3661 Main.

EDW. C. HORAN,

55 WEST 28TH STREET,

Telephone 421
Madison Square.

.....NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAOE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

JAPAN lilies, auratum, rubrum and album, are arriving later than usual.

ONION sets are requiring considerable overhauling, the mild weather increasing the liability to rot and sprouting.

T. W. WOOD, of Richmond, Va., has the sympathy of the seed trade in the loss of his wife, who died November 27.

VISITED CHICAGO: James McHutchison, of McHutchison & Company, New York; L. F. Jones, Grand Rapids, Mich.

CARTHAGE, MO.—Among recent visitors were Chas. P. Braslan and wife, San Jose, and John R. Horne, representing the Cox Seed Company, San Francisco, Cal.

ERNST SCHMIDT, founder of the firm of Haage & Schmidt, in Erfurt, Germany, died November 3 at Dresden and was buried at the former place November 8.

B. W. DULANEY, representing J. Chas. McCullough, Cincinnati, has returned from an extensive trip in western territory and reports very satisfactory business in grass and clover seeds.

THE holly situation is not in the best of shape, lack of cars, congestion of heavy traffic, rain in the cutting district and a scarcity of well berried stock combining to seriously affect the outlook.

RED WETHERSFIELD onion seed, reported short in September, has not advanced much in price, seedsmen who are moderately supplied evidently being disposed to wait rather than accept an advance in price now.

TUBEROSE bulbs are being dug and curing will be pushed along this month, foreign buyers being always in a hurry for early deliveries. Careful growers always insist on a fairly dry condition of the bulbs before barreling for export.

BERSEEM, the most valuable forage crop of the Nile Valley, is being tested by the Department of Agriculture with a view to its introduction as a fodder crop in this country. The plant is botanically known as Trifolium Alexandrinum and is also commonly called Alexandrian or Egyptian clover.

B. F. BROWN, of the Brown Bag-Filling Machine Company, who has charge of the papering of the seeds for the government seed distribution, reports seeds on hand for the southern and other early states, one section to be covered December 20 and one December 31. Later distributions will be made to northern states during January, February and March.

THE bouquet green outlook remains about as indicated in these columns November 29, but the holders are inclined to shade prices to some extent. The bulk of the surplus, which is considerable, is still in the north and is coming down slowly. Besides the reluctance of the holders to part with the stock at a loss, the railroads are very slow in supplying large cars and in moving the cars when they are loaded. The price for shipment December 8 to 10 is about \$35 per 1,000 pounds, with a possibility of lower prices later. There will hardly be time, of course, to make wreathing of the late stock.

We are in receipt of an advance copy of the report of Secretary James Wilson, Department of Agriculture, for 1902, in which we find the following with regard to congressional seed distribution: "With a view to making this work of more value to the country and encouraging the legitimate seed trade, plans have been inaugurated whereby the Department will gradually substitute new or little-known seeds, such as specialties or novelties, for the more common sorts heretofore distributed. Seedsmen are now co-operating with the Department in furnishing these specialties and novelties, and the Department will distribute them possibly only one year, dropping them then and allowing the demand, if demand there be, to be met by the regular trade."

Lowell, Mass.

BAD WEATHER CUTS DOWN THANKSGIVING TRADE.—LAST SEASON'S RECORD IS ECLIPSED NEVERTHELESS.—ALL ABOUT MARKET CONDITIONS.—PERSONAL NOTES. On Thanksgiving morning it rained furiously, putting a damper on trade. Although handicapped, as business was,

it went away ahead of last year. Stock was plentiful, with the exception of chrysanthemums, which are about done. Bonnafion was more popular than Eaton. Carnations took a jump in price, the fancies selling as high as \$6 per hundred. The retailers scrambled for Fairmaid. Roses were good, with the supply just about enough to meet the demand. Violets of good quality, both single and double, were to be had, but with such a demand for them the supply was soon exhausted. Many of them come from Comley's, at Lexington, and were excellent. The Princess of Wales are as fine as can be produced anywhere. Paper Whites have made their appearance.

Several well-grown pineapple plants, all fruited, seen in Patten's window, have attracted considerable attention. They were grown by Frank Sladen.

Mr. Campbell, of Manchester, N. H., was in town last Saturday, looking hale and hearty after several years' absence.

A. M.

CEDARHURST, N. Y.—The Lawrence Cedarhurst Horticultural Society cleared a net profit of \$350 on the recent show.

UNRIVALLED VERBENA SEED.

Send for Wholesale
Seed and
Bulb Catalogue.

SEND FOR OUR
NOVEL, HANDY
ORDER SHEET.

OUR STRAIN is unequalled by any other in the market to-day; it is made by mixing the choicest California, German and French strains, and has produced superb plants wherever grown. The flowers of great size, with large eyes and vivid colors. We send the seed in separate colors—scarlet, white, pink or blue or with all these colors mixed. Price 50 cents per quarter ounce; \$1.50 per ounce.

The following testimonials of our Verbena Seed speak for themselves:

THE GEORGE H. MELLECO., of Springfield, Ohio, write under date of November 6, 1902: "Seed from you last November was fine and we want more just like it. This is for our own sowing."

THE MICHEL PLANT & BULB CO., of St. Louis, Mo., under date of November 5, 1902: "We purchased from you last year some Verbena seed, as follows: * * * It was satisfactory. If you have the same strain this year duplicate the order."

Carnation Bands.

Our Carnation Bands are the best in the market and prove an actual necessity to all growers of the Divine Flower. "A stitch in time saves nine." Get our Bands and slip them on now. 10,000 of these Bands for \$1.00; 7,000 for 75c; 4,500 for 50c; 2,000 for 25c; 1,000 for 15c.

HENRY F. MICHELL, 1018 Market St. Philadelphia.

Mushroom Spawn Fresh Importation
FERTILE. PRODUCTIVE.
English in bricks, per 100 lbs., \$3.50 f. o. b. New York, \$7.00 f. o. b. Chicago. Write for prices on quantity.
Vaughan's Seed Store,
CHICAGO. NEW YORK.

Strictly New England GROWN SEEDS.

SPECIALTIES—Onion (Southport Globes), Turnip Seed and Sweet Corn, Beet, Parsnip, Carrot, Cabbage. We can answer all questions without finching as to quality and where grown.

The E. B. CLARK CO., Milford, Conn.

TELEGRAPH CODE

OF THE

AM. SEED TRADE ASSOCIATION

\$2.00.

In either stiff or flexible cover. ADDRESS ORDERS TO AMERICAN FLORIST CO., CHICAGO.

ESTABLISHED 1802

THORBURN'S SEEDS

Send for special low prices on
DUTCH HYACINTHS
for forcing or bedding, and
LILIUM LONGIFLORUM.

J. M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

OVER 2,000 ACRES IN CULTIVATION.

BRASLAN SEED GROWERS CO.

Growers for the Wholesale Trade Only.

CORRESPONDENCE SOLICITED.

SAN JOSE, CAL.



Receiving and Shipping Seeds. A daily scene after the harvest at the San Jose warehouse of the Braslan Seed Growers Co.

BURBANK'S Shasta Daisy.

Mailing size plants, \$5.00 per 100; \$40.00 per 1000. 25 at 100 rates, 250 at 1000 rates. Prepaid at above figures. Trade list now ready for 1903.

CALIFORNIA CARNATION CO.
LOOMIS, CAL., U. S. A.

ALWAYS A WINNER!

Governor Wolcott

3,000 stock plants in perfect condition. Order now for January delivery: \$5 per 100; \$45 per 1000; \$200 per 5,000.

Henry A. Stevens Co., East St., Dedham, Mass.

PANSIES

Finest strain of Giant Mixture from best European growers, strong stock for transplanting in cold frames or houses. Price per 100 by mail, 50c; per 1000 by express, \$2. **ENGLISH DAISY** in colors by mail, per 100, 35c; by express, per 1000, \$2.00. **SWFET WILLIAM** by mail, 50c per 100.

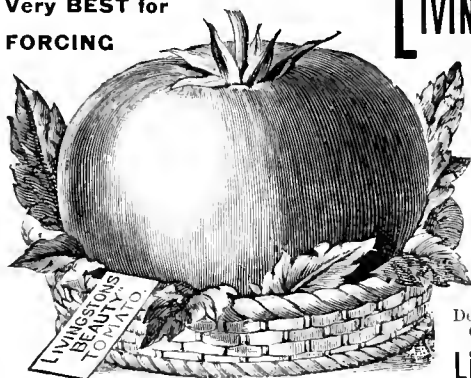
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.....to mention the

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When you write to an advertiser.

Very BEST for
FORCING



LIVINGSTON'S BEAUTY TOMATO.

Prof. W. J. Green, of the Ohio Experiment Station says:

"I am fully satisfied that Livingston's Beauty Tomato is the most profitable variety of all for growing under glass."

Prof. W. B. Alwood, of the Virginia Experiment Station says:

"Your Beauty Tomato was superb, and as usual, gave us magnificent fruit. We are using it now exclusively for winter forcing."

OUR OWN CHOICEST SELECTED SEED.
Pkt. 10c.; Ounce 25c.; 4 Ounces 75c.

Descriptive Catalogue, also Florists' and Market Gardeners' Wholesale List free on application.

Livingston Seed Co., Columbus, O.

GLADIOLI OUR MOTTO: QUALITY FIRST.

We have, however, a sufficient quantity to supply all demands. Send for Catalogue.

ARTHUR COWEE,

"Meadowvale Farm," Long Distance Phone 9x. Berlin, N. Y.
United States Grower and Representative of G. OFF'S HYBRIDS.

FINE, COOL GROWN FERNS ONE CENT.

Pteris Tremula, P. Hastata; Onychium, Gymnogramma, Lygodium, Polypodium, Adiantum, P. Sulcata, Selaginella, Nephrolepis, etc. Transplanted singly in cool frames, good stock and liberal count. Mail orders our specialty. \$1.25 per 100, postpaid. Per 1000, \$10.00.

CLAR & LEY, THUNDERBOLT FERNERIES, SAVANNAH, GA.

All The Best CARNATIONS

The Leading Novelties of 1903.
The Best Varieties of 1902.
All the Standard Varieties.
Order your Rooted Cuttings NOW.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

Pansy Plants.

MME. PERRET, the finest strain on the market, large plants that will bloom soon at 50c per 100; \$3.50 per 1000, 3,000 for \$10.00.

J. C. SCHMIDT, BRISTOL, PA.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. LOENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEABER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

THE Michigan Central Railroad will next spring plant sixty acres of catalpas for post and tie timber.

THE Eastern Nurseries, of Boston, have bought eighty-five acres of very desirable land at Holliston, Mass.

THE nurseries making a specialty of strawberry plants report an unusually large business with the south this fall.

THE horticultural authorities of the State of Washington are putting an embargo on nursery stock from certain firms in New York because of woolly aphids on recent shipments of apple trees.

AT Watonga, O. T., November 28 thieves dug up and removed stock to the value of \$500 which nursery agents had stored on a vacant tract awaiting delivery. Stark Brothers, of Louisiana, Mo., lost \$125 and the Star Nursery, of Ottawa, Kan., \$225.

THE ALBERTSON & HOBBS nursery at Bridgeport, Ind., is now under the management of the second generation and has grown out of all semblance to the original establishment, founded fifty years ago. A large packing and storage shed adds greatly to the facilities for the present season.

THE eighteenth annual meeting of the Northwest Iowa Horticultural Society will be held at Nora Springs, Floyd county, December 16-18, when the citizens of the town will provide free entertainment to all accredited members who may desire it. C. H. True, Edgewood, Ia., is secretary.

THE New York State Fruit Growers' Association will hold its annual meeting at Buffalo, January 7-8. It is expected the attendance will be 1,200 and there will be a large exhibition. The president of the association is Lucien T. Yoemans, of Walworth, and the secretary F. C. Dawley, of Fayetteville.

Springfield, Mass.

RETAILERS ALARMED AT THANKSGIVING BUT CLEAN OUT WELL.—TRADE GOOD IN ALL LINES.—LOCAL NOTES.

The weather for Thanksgiving was anything but favorable for business and with a large stock on hand it looked as though the store men would be at a great loss. However, I find almost everything was sold, except a few large chrysanthemums that later did good service for window decorations, making a last farewell for this season. We are glad to see them come and also to see them go. Roses, carnations, lily of the valley, violets and cut orchids were in good demand. In pot plants poinsettias, cyclamens, primulas and Begonia Gloire de Lorraine sold well. Now we are ready for the Christmas rush and, from reports, stock will be in good shape and about right.

C. F. Fairfield made a nice display of plants, cut chrysanthemums and carnations and reports the Thanksgiving business good.

H. Merrick, formerly with Hodgson, of New York, has taken a position with Mark Aitken.

Wm. Schlatter & Son handled a nice clean lot of pot plants. A. B.

St. Louis.

THANKSGIVING TRADE HEAVY.—A QUIET PERIOD FOLLOWS.—STOCK EQUAL TO ALL DEMANDS.—PRICES REMAIN FIRM.—VARIOUS LOCAL NOTES.

The Thanksgiving trade was of the best and every section of the city reports good business for that day, but since then demands have fallen off considerably, although stock is very good. The first killing frost was experienced just before Thanksgiving. Receipts are light, but owing to the light demand there is considerable stock to be seen on hand in the wholesale houses. The prices received are up to the standard, however.

Will Sanders, formerly with H. G. Berning, has returned from a trip in the country, near Cuba, Mo., where he found good hunting and fishing. He is thinking of going into the retail business.

Frank M. Ellis reports that this is his best year, his Thanksgiving receipts being just double last year's.

No carnations excel the Guardian Angel that Fred. Anmann, of Edwardsville, is sending in. R. J. M.

Denver.

BUSINESS BRISK AT THANKSGIVING.—ALL STOCK SOLD OUT.—HIGH PRICES A BAR TO SOME ITEMS.—PROSPECTS GOOD.

Thanksgiving day trade was good. Tuesday and Wednesday were busy days, handling the out of town trade, while the city trade Thursday morning was better than ever. Stock ran short, with the exception of chrysanthemums, of which some of the best of the season were offered. The best sold at \$4 per dozen, while a few Eatons brought \$5. Beau-

ties were scarce and sold readily at prices ranging from \$3 to \$8 per dozen. Good teas and Liberties sold generally at \$1.50 to \$2, with the best Liberties at \$3 per dozen. The supply of carnation was not equal to the demand and Thursday morning found them very scarce, selling at 75 cents and \$1 per dozen. Violets were in fair supply; in fact, the price put on them made the supply equal to the demand, for \$3 per hundred at this season is too high for brisk business. Paper Whites and Romans were plentiful but went rather slow. A few good cyclamens and Gloire de Lorraine were brought in and took well. This week stock is scarce, particularly roses and carnations, and business is good, with things looking bright between now and Christmas.

B.

BARNARD'S CROSSING, N. Y.—E. H. Ruestow & Company have used hydrocyanic acid gas for aphides on carnations, chrysanthemums and a general line of bedding plants with pronounced success.

CLEVELAND, O.—Hester A. Getz, for eight years in business at Columbus, has formed a partnership with Anna L. Westman and Westman & Getz will open a first-class retail store at 502 Euclid avenue.

GLENWOOD, MICH.—The venerable father of E. H. Hitchcock, the dealer in greens, was accidentally killed, on November 25, by falling from a train at Dowagiac while enroute home from his birth place at Hatfield, Mass., where he had not been for thirty years. He was in his seventy-second year and was highly esteemed in the community.



Almost half a century of fair dealing has given our products that prominence which merit deserves. We still offer everything of the best for

ORCHARD, VINEYARD, LAWN, PARK, STREET, GARDEN & GREENHOUSE.

Correspondence solicited. Catalogue and Trade List free. 49 years, 44 greenhouses, 1000 acres.

THE STORRS & HARRISON CO.,

Painesville, Ohio.

Crimson RAMBLER.

5 to 6 feet, extra heavy plants, \$20.00 per 100.
4 to 5 feet, \$15.00 per 100.
3 to 4 feet, \$12.00 per 100.
2½ to 3 feet, \$10.00 per 100.

The Conard & Jones Co., West Grove, Pa.

ALPINE and HERBACEOUS PLANTS.

Finest collection in Europe.
Trade list upon application.

Also a large stock of OVAL-LEAF PRIVET, 1 to 10 feet, bushes and standards.

IVIES, Common and Golden, in pots, f. o. b. Liverpool. Cash with order.

STANSFIELD BROS., Southport, England.

ILEX OPACA HOLLY.

Excellent, well graded and well furnished stock in sizes from 6 inches to 3 feet, at from \$6.00 to \$25.00 per 100. Send for our Trade list.

Pinehurst Nurseries, Pinehurst, N.C.



Send to

THE MOON

Company

For Trees, Shrubs, Vines
Your and Small Fruits.

Descriptive Illustrated Catalogue Free.
THE WM. H. MOON CO.
Morrisville, Pa.

Fine Grafted ORANGES Bearing Sizes.

Per 100
12 inch, bushy, from 4-inch pots.....\$20 00
15-18 inch, bushy, from 4-inch pots..... 30 00
10-12 in., bushy, from 4-in. pots 20 00
15-18 in., bushy, from 4-in. pots 30 00
12-15 in., bushy, from 4-in. pots.. 20 00
18-24 in., bushy, from 4-in. pots 30 00
Climbing Clothilde Souper, strong field-grown. 10 00
Crimson Rambler, stg. field-grown 7 00

Clematis Apifolia A fine variety, somewhat similar to C. paniculata, but blooms earlier and lasts longer; strong plants from 3-inch pots... 8 00
(Not less than 40 of a class at 100 rate.)

Citrus Trifoliata (Best defensive hedge plant.) Per 1000
Strong, 2 year old, field-grown.....\$15.00
Strong, 3 year old, field-grown..... 20.00

Amoor River Privet (Better than California Privet.)
18-24 inch, branched..... 15.00
24-36 inch, branched..... 20.00
Not less than 400 of a class at these rates.

Rubbers, Kentias, Phoenix, Latanias, Pandanus, Ornamental trees and Shrubs in large quantities.

WRITE FOR CATALOGUE.....

P. J. BERCKMANS CO. (Inc.)

FRUITLAND NURSERIES,

Established 1856. AUGUSTA, GA.
Please mention the American Florist when writing.

SMILAX SPRENGERI ASPARAGUS

WE now have a practically inexhaustible supply and can fill orders at any time and for any quantity. All we shall need on the largest orders is time to cut the stock. A. F. Amling has this season put up, and is now cutting from, the finest range of houses for this specialty in the country, which puts us in a position to at all times maintain a supply in this market. Call on us for all your needs in these specialties.

ASPARAGUS Plumosus Nanusper string, \$.50
 "sprays, per 100, 2.00
 " Sprengeri.....per 100, \$2.00 to 3.00
 SMILAX.....per dozen, \$1.50; per 100, 10.00

E. C. AMLING,

The Largest, Best Equipped and most Centrally Located Wholesale Cut Flower House in Chicago.

32-36 Randolph St. L. Dis. Phones 1999 and 1977 Central. Chicago, Ill.

W. A. HAMMOND,
Richmond, Va.

Wholesale Florist.

Roses, Carnations,
Chrysanthemums, Etc.

WHOLESALE

Cut Flowers

Florists' Supplies, Seeds, Etc.
Galax and Leucothoe, Wild Smilax.

Special attention given to shipping orders.
Long distance 'Phones, Main 584 and 748.

J. M. McCullough's Sons
316-318 Walnut St., Cincinnati, O.

Pansies Worth Raising.

Strong plants, \$4.00 per 1000; \$2.50 per 500; \$1.00 per 100, f. o. b. express here. Cash with order.

CHR. SOLTAU,
199 GRANT AVENUE, JERSEY CITY, N. J.

WIETOR BROS.

Wholesale Growers of

Cut Flowers,

51 Wabash Avenue, CHICAGO.

WITH one of the largest ranges of glass in the world, devoted exclusively to cut flowers, we produce first grade stock in such large quantities that we can fill orders at all times.

BEAUTIES, ROSES, CARNATIONS.

Our stock was never finer than at present. Beauty is our specialty, of which we grow 60,000 plants, 60,000 Brides, Maids and Meteors; including Liberty, La France and Ivory of choicest quality. 160,000 Carnation Plants on benches, all best sorts. Buy of the grower and get fresh stock at lowest market rates.

CURRENT PRICES.

Subject to change without notice.

AMERICAN BEAUTY	Per Doz.
Extra long stem	\$5.00 to \$6.00
24-inch stem	3.00 to 4.00
20-inch stem	2.50 to 3.00
15-inch stem	2.00
12-inch stem	1.50
8-inch stem	1.00
Per 100	
Bride	\$8.00 to \$9.00
Bridesmaid	6.00 to 8.00
Meteor	6.00 to 8.00
Golden Gate	6.00 to 8.00
Perle	4.00 to 6.00
Ivory	5.00 to 10.00
Liberty	6.00 to 12.00
La France	6.00 to 12.00
Carnations, fancy	2.50 to 3.00
ordinary	1.50 to 2.00

All other stock at lowest market rates.

PANSIES

Roemer's Superb Prize Pansies.

STRONG, FINE STOCKY PLANTS,

Mixed colors, by mail, 75 cents per 100; \$3.00 per 1000; per 10,000, \$25.00.
Large transplanted plants, in bud and bloom, \$1.25 per 100 \$10.00 per 1000.

CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

Always mention the American Florist when writing to advertisers.

SHIPPING LABELS FOR

...Cut Flowers

Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. to red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples.....

ELECTRO OF THIS LEAF, POSTPAID, \$1.25.

American Florist Co.,

CHICAGO.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

At Philadelphia.

November has been a busy month on the Florists' Club alleys. Every afternoon and evening, with few exceptions, has witnessed keen contests improvised between whoever happened to be around, and several matches with outside clubs have also been run off. Captain Moss is rolling in good form at present and has hopes that his team will land in first place in the City League contest, which comprises some six or eight of the strongest clubs in the city. The averages for November are as follows:

Moss	168	Connor	147
Westcott	158	Craig, G.	146
Watson	157	Polites	140
Harris	155	Falek	139
Yates	153	Gibson	138
Adelberger	153	Anderson	133
Starkey	149	Dunlap	127
Kift	148	Baxter	113

Among the associate members Hamilton leads with an average of 185, with Dunham and Moore close seconds. The last contest in the City League took place December 4, on the home alleys, against the Alexis Club.

At Chicago.

The following is the record of the play in the Chicago Florists' Bowling League on Tuesday evening, December 2:

McKellar & Winterson	1st	2d	3d	T ¹
E. Winterson	160	159	139	458
Sterrett	132	136	155	423
L. Winterson	103	107	120	330
Prunf	129	153	171	453
Balluff	153	178	152	483
Total	677	733	737	2147
Wholesalers	1st	2d	3d	T ¹
Geo. Scott	157	139	131	427
Geo. Pleser	103	123	120	406
A. Zeek	125	146	123	394
A. Nowell	127	151	175	453
J. Zeek	151	155	131	437
Total	723	714	680	2117
Retailers	1st	2d	3d	T ¹
J. Lambros	137	155	141	433
Brady	117	93	122	332
Hauswirth	157	157	147	461
Total	411	405	410	1226
Vaughan's	1st	2d	3d	T ¹
J. Roy	127	105	135	367
W. Kreitling	95	129	112	336
C. Hunt	146	139	155	440
Total	368	373	402	1143

LADIES' GAME.

Player	1st	2d	3d	T ¹
Mrs. Asmus	50	60	69	179
Mrs. Winterson	84	65	76	225
Mrs. Brady	64	53	43	160
Mrs. Balluff	75	73	90	238
Mrs. Kreitling	94	84	93	271
Victor Kreitling	105	76	106	287

Cincinnati.

WEATHER UNFAVORABLE FOR LOCAL CUT FLOWER TRADE.—ROSES ARE ACCUMULATING.—A GOOD DECORATION.—VARIOUS NOTES.

The dark, dreary weather of the past week has put a damper on business. It is pretty hard to move flowers when we have snow, sleet and rain and the wholesale houses have to depend upon their shipping trade to get rid of stock. Carnations, however, are scarce, also violets and Beauty roses. There is a nice lot of teas coming in, which are accumulating

in the ice boxes. Some very good chrysanthemums are still to be seen. George & Allan are sending some very good lily of the valley and Harris lilies, which sell at \$4 and \$15 respectively.

Frank W. Ball & Company had a very handsome table decoration at the Queen City Club last Tuesday, using Beauty and Golden Gate roses and lily of the valley. It was a very pretty combination. They have a very pretty window this week, draped with winter berries and a large vase of Timothy Eaton in the center.

Albert McCullough is spending his vacation off the coast of Florida. He states in his letter the fishing is excellent, and proposes to stay a whole month, returning about December 15.

Louis Kyrk, who started in the wholesale commission business a few weeks ago, reports everything going along smoothly and is very well satisfied with business to date.

Wm. Murphy states that on Murphy's White carnation cuttings, he has orders for 60,000 for January delivery.

James Allan, who has been visiting his parents near Boston, has returned.

J. A. Peterson is on the sick list. D.

Minneapolis.

STOCK NOT IN ABUNDANT SUPPLY.—GOOD VALUES LIKELY TO BE MAINTAINED.—LOCAL NOTES.

Thanksgiving did not show the scarcity of flowers that was expected, as large numbers of chrysanthemums were held back, and about the same with carnations. The only shortage was in tea roses, Beauties and violets. The prices on carnations ranged from \$2.50 to \$3.50 per hundred, on tea roses from \$5 to \$8 per hundred, while Beauties sold at not less than \$1.50 per dozen, wholesale. Violets were wanted at \$1.50 per hundred. From the outlook there will not be much of a decline in the value of flowers for a few days unless supply increases considerably. From orders booked for wild smilax, there will be some fair-sized decorations this month.

Northrup, King & Company's new flower store is about completed and is a beauty, about the finest in the city as well as one of the finest in the northwest. John Degnan, formerly of Chicago, is in charge.

Thieves broke into the greenhouses of R. G. Mendenhall, at Minnehaha Park and some very choice blooms of chrysanthemums were taken.

A. S. Rice, of Rice Brothers, has returned from Delaware, where he inspected the loading of two cars of holly. C. F. R.

Montreal.

WEATHER AFFECTS THE ROSE CROP.—CARNATIONS PLENTIFUL.—A GOOD SEEDLING.—PERSONAL AND TRADE DOINGS OF VARYING INTEREST.

For the last few weeks the weather has been very cloudy but also wonderfully mild. Trade has been booming but it fell off for awhile just before Thanksgiving. Chrysanthemums, not mentioning the white ones, are very plentiful and prices keeping firm, the best bringing from \$7 to \$10 a hundred. Pennsylvania and Golden Wedding are still the leading yellow here. Roses are scarce, but carnations are plentiful and fill in when roses are wanted. A new carnation seedling is of the same shade, but a stronger grower and larger flower than its parent, Roosevelt. It originated with Walter Wilshire, manager of C. Campbell's place.

P. McKenna & Son's carnations are in the pink of condition. They are cutting some fine bouvardia and some grand smilax.

S. S. Bain is offering the first lilies of the valley and Romans in this city. He had the decorations for the St. Andrew's ball.

E. Bourbonniere has opened a second store on Notre Dame street, west. He is doing plenty of funeral work.

C. A. Smith, of Lachine, was the exhibitor of the good chrysanthemums shown at our last meeting.

The Lachine Horticultural Society has decided to hold its annual dinner on December 13.

Logan Girdwood is showing some nice orchids and very good violets. G. V.

Lapeer, Mich.

W. H. Watson is developing a big plant with great rapidity; he had only neared the completion of four new houses when he started on another, this one 22x200, and ordered a new steam boiler. He is making a specialty of carnations and has upwards of 35,000 plants on the benches, all the latest and most popular varieties, and looking as well as the stock of many widely celebrated growers. He is beginning to propagate, for the rooted cutting business has grown to be a large item with him and he proposes to push it harder than ever this season.

PAXTON, ILL.—Andrew Peterson is building up a nice business in mailing plants.

Asparagus Plumosus Nanus....

From 5-inch pots, fine, \$3.50 per doz.; \$25.00 per 100.

ASPARAGUS SPRENGERI

good strong, from 5-inch pots, \$1.50 per doz.; \$10.00 per 100.

BEGONIA REX

12 vars., 2-in., 60c per doz.; \$4 per 100.

CENTRAL MICHIGAN NURSERY, Kalamazoo, Mich.

CYCLAMEN

PERSICUM SPLENDENS GIGANTEUM.

Finest strain in the world, ready for immediate shipment, a splendid stock of plants, well budded, from 3-inch pots, \$6.00 per 100; \$50.00 per 1000; from 3½-inch pots, in bud and bloom, \$10.00 per 100; \$90.00 per 1000.

PAUL MAOER, East Stroudsburg, Pa.

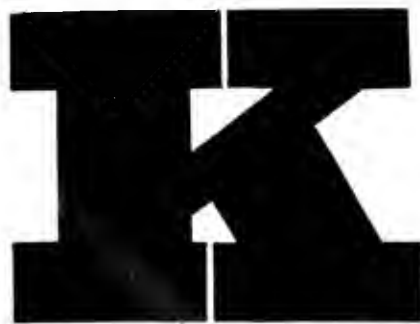
Chicago Carnation Co. Joliet, Illinois.

SPECIAL OFFER FOR SHORT TIME

Only to make room, extra fine lot

MIXED FERNS

from 2-inch pots, strong and well grown, \$3.00 per 100; \$25 per 1000. All good varieties. Do you want a lot of Cytomium Falcatum at \$3.50 per 100? BEARD BROS., 1248 W. Fort St., Detroit, Mich.



ENNICOTT BROS. CO.

40-42-44 Randolph St., Chicago.

AMERICAN BEAUTIES, from 12 cents to 50 cents.

	Per 100		Per 100
BRIDES.....	\$4.00 to \$8.00	VALLEY.....	\$3.00 to \$5.00
BRIDESMAIDS.....	4.00 to 8.00	ADIANTUM.....	1.00 to 1.25
METEORS.....	6.00 to 10.00	SMILAX.....	per dozen, 1.25 to 1.75
LIBERTY.....	6.00 to 15.00	GALAX, green.....	per 1000, \$1.00, .20
PERLES.....	3.00 to 6.00	GALAX, bronze.....	per 1000, \$1.50, .20
ROSES, our selection.....	3.00	FERNS.....	per 1000, \$1.50, .20
CARNATIONS, our selection.....	1.50	ASPARGUS SPRENGERI.....	2.00 to 3.00
CARNATIONS, good to choice.....	2.00 to 2.50	ASPARGUS PLUMOSUS.....	2.00 to 3.00
CARNATIONS, fancy.....	3.00 to 5.00	ASPARGUS.....	strings, 50.00 to 75.00
VIOLETS.....	1.00 to 2.00		

Everything in Season at Chicago price day of shipment.

Order Early

Before You Come Too Late!

Flowering and Decorative Plants for Christmas and New Year.

Azaleas, in bloom, 75c, \$1.00, \$1.25, \$1.50, \$2.00, \$2.50, \$3.00 and \$4.00 each; also by the dozen, 50 Standards of Verveviana at \$5.00 each; very fine.

Primula Obconica, in bloom, \$1.50 per dozen.
Erica Vilmoreana, exceptionally fine, flowered this year, 50c, 75c, \$1.00, \$1.35, \$1.50, \$1.75, \$2.00, each; also by the dozen. Some ready now.

Erica Regerminans, new, very fine, white, tinted lavender, sweet scented, 25c, 35c, 50c, 75c and \$1.00 each; also by the dozen and 100. Some ready now.

Erica Fragrans, white with brown center, 75c, \$1.00, \$1.50, \$2.00 and \$2.50 each; also by the dozen and 100. We grow for Christmas this season two 100-foot houses of Ericas. We have a limited stock of **Erica Regerminans** in full bud which can easily be grown to bloom for Christmas. They are showing color already. For the Japanese little fancy pots, etc., miniature fellows, 3-inch pots, at \$1.00 per 100.

Jerusalem Cherries, well berried and colored, fine bushes, \$4.00 and \$5.00 per dozen. Selected stock, \$6.00 per dozen.

Araucaria Glauca, each \$1.00, \$1.25, \$1.50; also per dozen. Public calls them Christmas trees.

Araucaria Excelsa, each, 75c, \$1.00, \$1.25; also per dozen. Public calls them Christmas trees.

Large Daisy Plants, in bloom, each \$1.50 and \$2.00. Good for filling Conservatories. Also by the dozen.

Boston Ferns, 50c, 75c, \$1.00, \$1.25, each.

Fruit d Orange, only a few at 25c, 75c, \$1.00 and \$1.50 each. Not by the dozen.

SPECIAL NOTICE.

As we have to pack exceptionally carefully to prevent freezing, add one dollar to your order for case and packing up to \$25.00; over that add \$2.00.

Cash must accompany all orders.

Dormant plants of all the above flowering stock can be had also, for parties wishing to grow plants into bloom themselves for later sale. For these we make no charge for packing.

Write for illustrated catalogue, which we will send free of charge.

Palms in all sizes by the 100. Ericas a Specialty.

Anton Schultheis, College Point, Queens Borough, NEW YORK.

Please mention the American Florist when writing.

ETHEL CROCKER FROM FIELD.

We have a lot of these growing on solid beds in cool house, every plant A No. 1 in every way, full of buds. You can plant these, they will supply blooms for Xmas in fine shape, \$4.00 per 100.

Also some fine **WM. SCOTT**, \$3.00 per 100, all first-class plants in every way.

S. T. DANLEY, MACOMB, ILL.

VINGA VAR., R. C., ENGLISH IVY, R. C., 75c. IVY LEAVES 30c per 100 delivered. HYDRANGEA OTAKSA for 6 or 8-in. pots, 10c; for large tubs, 50c. Cash or C. O. D. **J. H. DANN & SON**, Westfield, N. Y.

Rooted Carnation Cuttings

NOW READY.

	Per 100	Per 1000		Per 100	Per 1000
Alba, white.....	\$4.00	\$35.00	Chicot, white.....	\$3.00	\$25.00
Golden Beauty, yellow.....	4.00	35.00	Gov. Roosevelt, maroon.....	2.50	20.00
Cressbrook, white.....	4.00	35.00	Prosperity, white-splashed pink.....	2.50	20.00
Mrs. Palmer, scarlet.....	4.00	35.00	Norway, white.....	2.00	15.00
Mrs. Higinbotham, light pink.....	4.00	35.00	Lawson, pink.....	2.00	15.00
J. H. Manley, scarlet.....	4.00	35.00	Morning Glory, shell pink.....	2.00	15.00
Viola Allen, variegated.....	4.00	35.00	Queen Louise, white.....	2.00	15.00
Gaiety, fine variegated.....	4.00	35.00	Crane, scarlet.....	1.00	10.00
Harry Fenn, crimson.....	4.00	35.00	Mermaid, salmon, fine.....	1.00	10.00
Apollo, scarlet.....	4.00	35.00	Armazindy, variegated.....	1.00	10.00
Dorothy Whitney, yellow.....	4.50	40.00	Eldorado, yellow.....	1.00	10.00
Mrs. Joost, pink.....	1.00	10.00			

UNROOTED CUTTINGS AT HALF ABOVE PRICES.

TERMS CASH. We prepay express charges. If plants are not satisfactory, on arrival, return at once and we will pay return charges and refund your money. Our cuttings are grown OUT DOORS and rooted WITHOUT HEAT and are therefore strong and hardy and free from disease. SEND US ONE DOLLAR and we will mail you SAMPLES at HUNDRED RATES. Orders booked for future delivery.

Giant Flowering Pansy Plants, mixed, \$3.00 per 1000.

Marie Louise Violets, \$3.00 per 100; \$25.00 per 1000.

ALL CHARGES PREPAID.

LOOMIS FLORAL CO., Loomis, Cal.

ENCHANTRESS

THE GOLD MEDAL WINNER, having defeated all comers at Madison Square Garden and at Kansas City, now reigns supreme.

Having ordered a large quantity, I am still in a position to book orders for February delivery. Don't delay if you want any.

MRS. E. A. NELSON Has proved all we claimed for it—being free and continuous and ahead of its rivals in pink.

Cuttings guaranteed to be absolutely strong and healthy. January and February delivery.

PRICE, \$6 PER 100; \$50 PER 1000.

S. S. SKIDELSKY, 708 N. 16th St., Philadelphia, Pa.

White CARNATION MARIAN

Just as good to ship as it is to keep at home. Rooted cuttings, \$5.50 per 100; \$45.00 per 1000. Delivery after Jan. 15.

Pips of DORA, any time, \$2.00 per 100. Cash with Order.

ISAAC A. PASSMORE, West Chester, Pa.

Please mention the American Florist when writing.

PANSIES The Jennings Strain.

Small plants, \$4.00 per 1000, by express. Large plants, ready to bloom, \$1.00 per 100; \$5.00 per 1000. Seed, \$1 pkt.; \$5 per oz. Cash with order. **E. B. JENNINGS, Lock Box 254, Southport, Conn.** Grower of the Finest Pansies.

Please mention the American Florist when writing.

Carnation Cuttings

We are now booking orders for rooted cuttings. List of varieties and prices sent on application.

The Cottage Gardens, Queens, L. I.

HERRON....

Carnation Grower,

OLEAN, N. Y.

Please mention the American Florist when writing.

Seattle, Wash.

GOOD BUSINESS FOR THANKSGIVING.—CUT FLOWERS ALL SELL WELL.—A VARIETY OF NEWSY NOTES.

The weather here for the last two weeks has not been very favorable to the growers, having been wet and cloudy most of the time, but Thanksgiving day came out clear and warm and brought a big demand for cut flowers. The supply being far short, almost everything was cleaned out, and most of the stores closed early. Chrysanthemums were in demand and brought good prices, ranging from \$3 to \$5 a dozen. Carnations were scarce and fairly good. Roses were a luxury, with not a violet to be had. There were a few Paper White narcissi which sold readily at 75 cents a dozen. Pot plants were not much in demand, the only thing that sold in that line being cyclamens, fairly good plants selling at \$1 each.

Malmö & Company had a very fine lot of Mrs. Jerome Jones and Yellow Jones chrysanthemums for Thanksgiving. Their new place, at Broadway and Pike, is attracting much attention for its convenience and the health of the stock.

John Holze has his new place at Thirteenth and Madison in good running order. He has a fine lot of carnations and his show house is in excellent shape, his kentias being especially good.

A. L. Aabling, late of Everett, has bought out the Evergreen Floral Company, at 912 Second avenue, and is building up a good business. He will build a large addition next summer.

The Woodland Park Floral Company has taken in another partner, Gus. Berkman, and has started to build a new range of greenhouses, having taken out a permit for \$10,000.

Fred. Smith, of Tacoma, was a visitor in town last week. He put up a range of glass last summer and reports business good. J. C. R.

BIRMINGHAM, ALA.—James H. Stevens has opened a cut flower business at the store of Fox Sons & Smith Company, Fourth avenue and Nineteenth street.

CARNATIONS

ROOTED CUTTINGS.

- ETHEL CROCKER\$10.00 per 1000
- DOROTHY, NELSON, CRESSBROOK,
- ENQUIRER, QUEEN LOUISE, ALBA,
- LORNA, HER MAJESTY, APOLLO,
- ESTELLE, ADONIS, MORNING GLORY,
- GAIETY, MRS. HIGINBOTHAM,
- PROSPERITY, ROOSEVELT.

Let me estimate on your orders, and please state how many of each variety will be wanted and when they are to be delivered.

ALBERT M. HERR, LANCASTER, PA.

Miss Louise

Faber

The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink shade, similar to a well colored Bridesmaid rose and average 3 to 3½ INCHES. Continuous bloomer when once started and calyx cover bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for FEBRUARY delivery from now on.

FICK & FABER, SAN MATEO, CAL.

SEEDLING CARNATION, President MCKINLEY.

Winner of the \$100 prize at Kansas City Flower Show in 1901 and 1st on vase of 100 dark pink at Kansas City in 1902. This is what Edwin A. Kanst, one of the awarding judges, said of it: "President McKinley is a splendid flower, the petals are perfect and it is well built. The color is deeper and brighter than the Lawson, and the coloring is more distinct. The peculiar purplish tinge in the Lawson is absent from the President McKinley. It will become a favorite carnation."

This variety, like its parent, Dorothy, is wonderfully free, also very early and an excellent keeper and shipper. Rooted cuttings ready Jan. 1, 1903. Price, \$2 per doz; \$12.00 per 100; \$100 per 1000.

EARLY STRUCK CUTTINGS of all the leading varieties of Carnations; also Chrysanthemums and Roses. We guarantee our stock to be satisfactory. Write for price list.

E. T. GRAVE, Richmond, Ind.

GOV. LOWNDES.

- COLOR, pure white.
- SIZE, 3 to 3½ inches in diameter.
- CALYX, spreading at the top, making it practically non-bursting.
- FORM, the lower or guard petals stand out straight, retaining the full size of bloom. Petals slightly serrated, and beautifully arranged, forming a full, rounded center.
- ODOR, is very sweet and particularly pleasing.
- STEM, 19 inches to 2½ feet during the season, and always strong enough to carry the large flower erect.
- HABIT, strong and vigorous; thrives well and grows rapidly. Transplants readily and comes into bloom early, and is not a cropper. It will stand closer planting than most varieties.
- PRODUCTIVENESS, extremely free flowering. More productive than any other large white. A profitable and high grade commercial variety.
- PRICE, \$2.50 per doz; \$12 per 100; \$100 per 1000. 50 at 100 rate; 500 at 1000 rates.

H. Weber & Sons, Oakland, Md.

FIELD-GROWN Carnation Plants

Potted and grown in 4-inch pots and just right to plant where your chrysanthemums have been.

- JOOST, ELDORADO, PORTIA,
- JUBILEE, IRENE, MACEO,
- GENEVIEVE LORD, MRS. BERTRAM LIPPINCOTT, MARQUIS,

Price, \$4.00 per 100.

J. L. DILLON, BLOOMSBURG, PA.

The Best White Carnation to Date The Queen

Reaches highest standard in size, form, calyx, stem, productiveness and keeping quality. A sure winner where ever shown. Price per 100, \$10.00; 250, \$22.50; 500, \$37.50; 1000, \$75.00.

Little South Floral Co., So. Natick, Mass. S. J. Goddard, Framingham, Mass.

LILLIAN POND

A Large and Fancy White.

Unlike most fancies it is free and continuous. Starts in to bloom early, sending out large flowers on long stems. It is a strictly fancy flower at all times and commands top notch prices. Order at once and you will not regret it. PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00. Orders booked now for February delivery.

S. J. REUTER, WESTERLY, R. I.



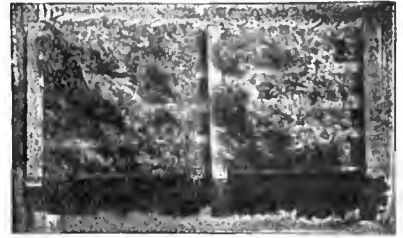
Bouquet Green

We are handling car lots of late picked stock at very close prices. **WIRE US** if you can use from 10 to 20 crates when you read this and we will wire you prices promptly. Price depends much on date of shipment. **LET US HEAR FROM YOU.**

HOLLY.

We are headquarters for XXX stock, the best in the market. **Smooth Leaf Southern Holly** at special low prices.

VAUGHAN'S SEED STORE, NEW YORK. CHICAGO.



BUCKLEY'S November Special.

Smilax Do you need Smilax? If so, forward your order at once and we will furnish you extra fine 2 1/4-inch at 50c per 100; \$5 per 1000.

Geraniums The leading and best bedders, Jean Vland (the pink novelty), \$2.00 per 100. S. A. Nutt (crimson), Alphonse Riccard (scarlet), E. G. Hill, Beaute Poitevine (salmon), Mme. Jaulin, \$1.50 per 100; \$14.00 per 1000.

Verbenas Our 20th Century Collection. 25 new mammoth varieties, all labeled, strong plants from 2 1/4-inch, \$1.50 per 100; \$12.50 per 1000.

Asp. Sprengeri Strong, 2 1/4-inch, \$2.00 per 100; 2-inch, \$1.25 per 100; \$10.00 per 1000.

Petunias Ten novelties from Dreer's latest sets, strong R. C. \$1.25 per 100.

Feverfew LITTLE GEM, rooted cuttings, 75 cents per 100. 2-in. \$1.25 per 100; 2 1/4-in., \$2.00 per 100.

Marguerites CHRYSANTHEMUM FRUTESCENS, both white and yellow, \$1.00 per 100.

Salvia Two best: St. Louis and Bonfire, 75 cents per 100.

The W. T. Buckley Plant Co., Springfield, Ill. Please mention the American Florist when writing.

GALAX

BRONZE OR GREEN, \$1.00 per 1000; 75c per 1000 in 5,000 lots.

LEUCOTHOE SPRAYS, BRONZE OR GREEN, \$1 per 100. FANCY FERNS, \$1.50 per 1000.

SOUTHERN SMILAX, per 50 lb. case, \$6.00; per 35 lb. case, \$4.50; per 25 lb. case, \$3.50.

PALM LEAVES, \$1.50 and \$2.00 per 100. NEEDLE PINES, \$1.50, \$2.00, \$2.50 per doz.

GREEN SHEET MOSS, fresh stock, per bbl. sack, \$2.50.

HOLLY, choice stock, \$4.50 per case 4x2x2. BOUQUET GREEN, selected, \$6.50 per 100 lb. crate. AMERICAN MISTLETOE, extra fine, \$6 per 25 lb. case. LAUREL AND PRINCESS PINE ROPING at market price.

L. J. KRESHOVER, 110-112 W. 27th St., N. Y. Tel. Call, SB7 Madison Sq. Please mention the American Florist when writing.

ELECTROS...

For Catalogue Purposes.

WE have a large assortment of strictly high-class halftones of which we can supply electros suitable for catalogue illustration. If you need anything in this way, state your requirements and we will submit proofs of the illustrations in stock.

Price for cash only 15 cents per square inch.

THE AMERICAN FLORIST CO., 324 Dearborn St., CHICAGO.



Order Direct From Headquarters.

New Crop of Bronze and Green

GALAX

\$1.00 per 1000 in 5000 lots. A No. 1 quality.

Dagger and Fancy Ferns, \$1.00 per 1000. A 1 quality.

Laurel Festooning, good and full, 5 and 6c a yd. Princess Festooning, made round, 5 and 6c yd. Laurel Wreaths, made good and full at market prices.

Southern Smilax, \$4.00 and \$7.00 per case. Selected stock.

Sphagnum Moss, 50c per bag; \$1.00 a barrel.

All orders by mail, telephone or telegraph will receive our personal attention and prompt delivery. Telephone long distance 2618 Main.

HENRY M. ROBINSON & CO. 32-34-36 Court Sq., Boston, Mass.

Mistletoe

for Christmas and the Holidays.

Write we for prices on large lots for December shipment.

Clyde H. Walker

227 Main St., Oklahoma City, O. T.

Xmas Greens

FANCY FERNS, \$1.50 per 1000.

LAUREL WREATHING, good bright Laurel, hand made, wrapped with wire, \$3.00 per 100 yds. Cash with order. Satisfaction guaranteed.

L. POPE & SON, Florists, Barnsboro, N. J.

Choice Delaware Holly

Dark Green Leaves, well berried, 16 cubic feet, \$3.00 per case.

HOLLY WREATHS, 15-inch, \$10.00 per 100.

LAUREL ROPING, 2 1/2c per yard.

LOOSE LAUREL, \$2.00 per case.

Southern Fruit Co., Georgetown, Del.

FOR SOUTHERN WILD SMILAX

(Where Quality Is First Consideration.) Write, Wire or Phone the Introducers,

Caldwell The Woodsman Co., Evergreen, Ala. or their agents: L. J. Kreshover, New York; J. B. Deamud, Chicago; H. Bayersdorfer & Co., Philadelphia; W. F. Kasting, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

L. B. BRAGUE,

Hinsdale, Mass.

WHOLESALE DEALER IN

Christmas Trees

AND

Baled Spruce

FOR CEMETERY USE.

Special attention paid to furnishing in car-load lots. Write for price list and terms.

ALSO WHOLESALE DEALER IN EVERGREENS, CUT FERNS, SPHAGNUM MOSS, Etc., Etc.

Hardy Ferns...

Everything and anything in Florists' Hardy Supplies at lowest prices. Estimates on large orders on application. Prompt delivery.

BOSTON FERN CO., 14 Brattle St., BOSTON, MASS.

HOLLY!

FINEST THAT CAN BE PUT UP. Car loads a specialty.

CHAS. E. BROWN, Packer and Dealer, BRIDGEVILLE, DEL.

W. Z. PURNELL,

SNOW HILL, MD., Dealer in

Green Sheet Moss, \$1.50 per bbl.; 5 bbls., \$6.25

Green Laurel, 2x2 1/4 ft. case, \$3.00; 5 cases, \$12.50

Long Needle Pines, 2x2 1/4 ft. case, \$1.50

Holly select, 3-4 ft. branches, case \$8; 5 cases, \$3.75

Mistletoe, on branches, bbl., \$5.00

Cedar Branches with Berries, case, \$3.00

Cash or satisfactory reference from unknown parties.

M. L. Henderson

OF LAURELBRANCH, N. C.

is located in the mountains of North Carolina, where as fine a galax leaf grows as grows in the world (green or bronze). Price given on application. Wholesale trade solicited.

Mention the American Florist when writing to advertisers on this page.

Providence, R. I.

BAD WEATHER KEEPS THANKSGIVING DOWN TO THE LEVEL OF A GOOD SATURDAY.—ALL ABOUT STOCK AND THE PRICES.

The consensus of opinion seems to hold Thanksgiving trade in the light of a good Saturday's business, yet it has seemed that this holiday grows steadily in importance and, properly coached by the florists, is destined to become a business-bringer. This year we had the misfortune of rainy weather beginning the Saturday previous and including the following Wednesday, thereby considerably damaging the chance of Thanksgiving becoming a record breaker. The next day was cold and misty and brought out small numbers. Needless to comment on the general disconsolation among the trade. But everyone reports a good sale, comparatively, and this is gratifying. Stock was scarce, excepting chrysanthemums. These flowers were in abundance at from \$1 to \$2 per dozen, wholesale, one retailer alone stocking up with 3,000 blossoms, which brought from 10 cents to 30 cents each, although the general call was for flowers at from \$1.50 to \$2 per dozen retail. The Appletons were mostly soft. The Eaton, Jones, Murdock and Maud Adams were in the majority. Carnations were in fine wholesale demand at \$1.50 and \$2 per hundred, but were short crop, and this condition still prevails. Violets brought 75 cents per hundred and sold well. Roses were exceptionally scarce, with but a moderate demand. They brought \$3 to \$5 for fair stock. M. M.

WASHINGTON, IA.—E. C. Keck has just completed three new houses, 7,000 feet of glass, and an office within one block of the center of town, where his retail business will be handled. He has also bought eight acres of land at the edge of town and put up 10,000 feet of glass there for wholesale trade. In the spring he will move his old range of 15,000 feet to the new location. He proposes to handle a line of seeds the coming season.

STOCK Chrysanthemum plants, strong and healthy, full of young growth, of the following varieties: Fitzzygram, white and pink Glory of Pacific, Monrovia and Robt. Halliday, two best early yellows; Kalb, Willowbrook, Bergmann, J. K. Shaw, October Sunshine, Fee du Champaur, Ivory, Bonnaffon, Col. Appleton, Holst, Evangeline, Vivand-Morel, Chas. Davis, Mongolian Prince, Intensity, H. A. Parr, Mrs. Perrin, E. D. Smith, Eaton, Pennsylvania, Philadelphia, Arab, Adula, Helen Bloodgood, T. L. Park, Chadwick, F. B. Hayes, White Bonnaffon, Yanoma, Riemann, Wallaroo, R. Hooper Pearson, Golden Beauty, Superba, Goldmine, Golden Wedding, Malcolm Lamood, Childs, Mrs. Weeks, etc., 10c each; \$1 doz. **LAST CALL**, for cash, at \$5 per 100, by the 100 only. **GUNNAR TEILMANN, Marion, Ind.**

Mum Stock Plants

Robinson, Merry Xmas, Wanamaker, Monrovia, Bassett, Lincoln, Whildin, Murdock, Kalb, Bonnaffon, Childs, Halliday, Appieton, Sunderbruch, Ferrin, Pacific, \$4.00 per 100.
Eaton and Chadwick, \$6.00 per 100.

JOHN BROD 349 W. North Ave., CHICAGO.

Roses in 2x2 1/2-in. POTS.

VARIETIES—Meteors, Brides, Maids, Kaiserins, Perles, Beauties, Liberty, Golden Gate, La France, Belle Siebrecht. Write

GEO. A. KUHL, Pekin, Ill.

STOCK 'MUMS

Bonnaffon, Queen, Ivory, Appleton, Geo. Pitcher, Niveus, Eda Prass, Wanamaker, Yanoma, Geo. Conover, 4c each. Satisfaction guaranteed. **W. B. OVIATT, BRICHTON, N. Y.**

YELLOW EATON

GOOD JUDGES pronounce it the most valuable commercial Chrysanthemum to be introduced in the spring of 1903. Its color captivates everybody and it has all the other good qualities of Timothy Eaton, without the coarseness sometimes attributed to that variety. \$5.00 per doz; \$30 per 100. Delivery of young stock, March 1, 1903.

ROBERT CRAIG & SON, Market and 49th Streets, PHILADELPHIA, PA.

'MUM

Stock Plants, Extra Fine.

TIMOTHY EATON,	GOLDEN WEDDING.
XENO.	OCTOBER SUNSHINE,
WHITE JONES.	YELLOW JONES,
SNOW QUEEN.	COL. APPLETON.

\$8.00 per 100; \$1.50 per doz.

BASSETT & WASHBURN,
76-78 Wabash Avenue. CHICAGO, ILL.

Stock 'Mums.

THREE BEST EARLIES:
MONROVIA, Yellow.
Glory of Pacific Pink.
White POLLY ROSE

Also all other commercial varieties at \$5.00 per 100. Cash please.

Carl Hagenburger, W. Mentor, Ohio.

ROOTED CARNATIONS Ready

	Per doz.	100	1000
Gov. Wolcott, white, 1902.....	\$.60	\$4.00	\$35.00
Alba, white, 1902.....	.60	4.00	35.00
Golden Beauty, yellow, 1902.....	.60	4.00	35.00
Violania, variegated, 1902.....	1.25	9.00	75.00
Mrs. Palmer, scarlet.....	.60	4.00	35.00
Mrs. Higinbotham, light pink.....	.60	4.00	35.00
Apollo, scarlet.....	.60	4.00	35.00
Sella, Dornier's variegated.....	.60	4.00	35.00
Dorothy, pink.....	.50	3.00	25.00
Gov. Roosevelt, maroon.....	.35	2.50	20.00
Norway, white.....	.30	2.00	15.00
Lorna, white.....	.30	2.00	15.00
Gold Nugget, yellow.....	.30	2.00	15.00
Eldorado, yellow.....	.15	1.00	10.00
Gen. Maceo, maroon.....	.15	1.00	10.00

Unrooted cuttings at one-half price.
Asparagus Sprenger from flats \$1.00 per 100; \$7.50 per 1000. 25 at 100 rates; 250 at 1000 rates. Cash with order. Express prepaid.

WESTERN CARNATION CO., LOOMIS, CAL.

MURPHY'S WHITE

CARNATION, ROOTED CUTTINGS, \$6 per 100; \$50 per 1000; \$40 in 10,000 lots.
CUT BLOOMS of carnations in quantity.
WM. MURPHY,
Phone Main 4411. 130 E. 3rd St., Cincinnati, Ohio.

CHRYSANTHEMUMS.

Large Strong Stock Plants from Bench.

	Each	Per doz.
BENTLEY.....	\$.35	\$3.00
C. HOLST.....	.25	2.00
HONESTY.....	.25	2.00
PROSPERITY.....	.25	2.00
PROVIDENCE.....	.25	2.00

T. Eaton, Appleton, Maud Dean, Childs, Mrs. Chamberlain, Liberty, Monrovia, Chadwick, Orizaba, Lady Roberts, Golden Wedding, Golden Beauty, Brunt, \$1.50 per doz.; \$8.00 per 100.

Mrs. E. D. Smith, Glory of the Pacific, White Bonnaffon, R. H. Pearson, Bergmann, G. S. Kalb, H. A. Farr, Lady Harlett, Willowbrook, Ivory, October Sunshine, Adele, Merry Monarch, The Queen, Robt. Halliday, J. K. Shaw, Polly Rose, Mrs. J. Jones, Bonnaffon, Lucie Faure, Niveus, Eclipse, \$1.00 per doz.; \$6.00 per 100. 6 plants of one variety at doz. rate; 25 at 100 rate.

H. WEBER & SONS, OAKLAND, MD.
Please mention the American Florist when writing.

Strong 'Mums

STOCK PLANTS FOR SALE.

175 Bonnaffon,	150 Appleton,
200 Eaton,	125 Philadelphia,
175 Robinson,	100 Vivand-Morel,
50 Bergmann,	50 Glory of Pacific,
50 October Sunshine,	50 Chas. Davis,
	50 Geo. Childs.

JOSEPH LABO, JOLIET, ILL.
Please mention the American Florist when writing.

New Fancy Carnation "TIGER"

Color, orange, striped pink, effect of Sunrise rose Size, 2 1/2-3 1/2-inch, stem 2-3 feet, straight as a wire. Habit, every shoot going to flower at once, dark green foliage; no supports necessary. Calyx, extra strong, seldom splits. Flower, type of Mayor Pingree. Notes, it is an early, continuous and free bloomer. Shown and won prizes at Kansas City, New York and Baltimore this fall. Be your own judge. Sample 1/2 doz. for 50c prepaid. The 50c you can deduct from your first order. 12 for \$1.50; \$10.00 per 100; \$75.00 per 1000. 25 at 100 rate, 250 at 1000 rate. 10,000 ready Jan. 1st.

HENRY EICHHOLZ, Waynesboro, Pa.

CHRYSANTHEMUMS, Stock Plants. White—Ivory, Mrs. Robinson, Mrs. J. Jones; Pink—Mrs. Perrin, Helen Bloodgood; Yellow—Modesto, Jones, Lincoln, \$1 per doz; \$8 per 100. Col. Appleton and Timothy Eaton, \$1.50 per doz.; \$12.00 per 100. Seattle Floral Co., 4th and Denny Way, Seattle Wash.

Dreer's Special Offer of Decorative Plants for the Holidays

Our stock of Decorative Plants, especially our Palms have never been in finer condition, all are clean, vigorous, healthy plants of good dark color which will sell on sight and we are certain will please you.

Palms.

ARECA LUTESCENS.

3-in. pots, 12 to 15 inches high, 2 plants in a pot, \$1.25 per doz.; \$10.00 per 100
4-in. pots, 15 to 18 inches high, 3 plants in a pot, 2.50 per doz.; 21.00 per 100
5-in. pots, 18 to 24 inches high, 3 plants in a pot, 5.00 per doz.; 40.00 per 100
6-in. pots, 28 to 30 inches high, 3 plants in a pot, 1.00 each; 12.00 per doz.
10-in. pots, 42 to 48 inches high, 3 plants in a pot, 6.00 each; 70.00 per doz.

COCOS WEDDELIANA.

3-in. pots, fair plants, 10 to 12 inches high.....\$2.00 per doz.; \$15.00 per 100

KENTIA BELMOREANA.

The two smaller sizes will be found useful as center plants for Fern dishes.
2 1/4-in. pots, 4 leaves, 8 to 10 inches high.....\$1.50 per doz.; \$12.00 per 100
3-in. pots, 5 leaves, 12 to 15 inches high..... 2.50 per doz.; 20.00 per 100
4-in. pots, 5 to 6 leaves, 15 to 18 inches high..... 4.50 per doz.; 35.00 per 100
5-in. pots, 5 to 6 leaves, 15 to 18 inches high..... 4.50 per doz.; 35.00 per 100
6-in. pots, 5 to 6 leaves, 15 to 18 inches high..... 4.50 per doz.; 35.00 per 100
6-in. pots, 6 leaves, 24 to 28 inches high..... 1.00 each; 12.00 per doz.
6-in. pots, 6 leaves, 24 to 28 inches high..... 1.25 each; 15.00 per doz.
6-in. pots, 6 to 7 leaves, 28 to 30 inches high..... 1.50 each; 18.00 per doz.
7-in. pots, 6 to 7 leaves, 30 to 32 inches high..... 2.00 each; 24.00 per doz.
7-in. pots, 6 to 7 leaves, 32 to 35 inches high..... 2.50 each; 30.00 per doz.

KENTIA FORSTERIANA.

Our stock of Kentia Forsteriana is in an unusually fine condition; the smaller sizes being remarkably stocky and fine for retailing; this includes up to plants at \$2.50 each; the larger sizes are fine for decorating; the plants offered at \$7.50 and \$10.00 each especially being of great value.

2 1/4-in. pots, 4 leaves, 10 to 12 inches high.....\$1.50 per doz.; \$12.00 per 100
3-in. pots, 5 leaves, 12 to 15 inches high..... 2.50 per doz.; 20.00 per 100
4-in. pots, 5 to 6 leaves, 15 to 18 inches high..... 4.50 per doz.; 35.00 per 100
6-in. pots, 5 to 6 leaves, 3 inches high..... 1.25 each; 15.00 per doz.
6-in. pots, 5 to 6 leaves, 30 to 36 inches high..... 1.50 each; 18.00 per doz.
7-in. pots, 6 leaves, 30 to 36 inches high..... 2.00 each; 24.00 per doz.
8-in. pots, 6 leaves, 42 inches high..... 2.50 each; 30.00 per doz.
8-in. pots, 6 leaves, 48 to 52 inches high..... 4.00 each; 48.00 per doz.
8-in. pots, 6 to 7 leaves, 52 to 54 inches high..... 5.00 each; 60.00 per doz.
9-in. pots, 6 leaves, 52 to 54 inches high, heavy..... 6.00 each.
9-in. pots, 6 leaves, 54 to 58 inches high..... 7.50 each.
9-in. pots, 6 leaves, 60 inches high..... 10.00 each.
10-in. pots, 6 leaves, 72 inches high..... 12.00 each.
12-in. tubs, 7 leaves, 7 to 8 feet high.....25.00 each.

LATANIA BORBONICA.

3-in. pots, 5 to 6 leaves, 12 to 15 inches high.....\$1.00 per doz.; \$ 8.00 per 100
4-in. pots, 5 to 6 leaves, 15 inches high..... 2.50 per doz.; 20.00 per 100
6-in. pots, 5 to 6 leaves, 15 to 18 inches high..... 3.00 per doz.; 40.00 per 100
8-in. pots, 6 to 7 leaves, 30 inch s high..... 2.00 each; 24.00 per doz.
8-in. pots, 7 to 8 leaves, 36 inches high..... 2.50 each; 30.00 per doz.

PHOENIX CANARIENSIS.

A grand lot of specimen plants in excellent condition for decorative work or for retailing.

11-in. tubs, 3 1/2 to 4 feet high, very bushy and shapely.....\$5.00 each.
11-in. tubs, 4 to 4 1/2 feet high, very bushy and shapely..... 6.00 each.

PLANTS FOR FORCING.

AZALEAS FOR EASTER FORCING.

Orders for Azaleas received before December 21 will be executed at import prices, after this date spring prices will take effect. We can still include 10 per cent of Mine. Van der Crynssen in assorted lots.

10 to 12-inch crowns, bushy, well budded.....\$ 4.50 per doz.; \$ 35.00 per 100
12 to 14-inch crowns, bushy, well budded..... 6.00 " 45.00 "
14 to 16-inch crowns, bushy, well budded..... 7.50 " 55.00 "
16 to 18-inch crowns, bushy, well budded..... 12.00 " 90.00 "
18 to 20-inch crowns, bushy, well budded..... 25.00 " 200.00 "
20 to 24-inch crowns, bushy, well budded..... 36.00 " 300.00 "

FORCING LILACS.

We offer a fine lot of pot-grown plants, well set with buds, and in prime condition for forcing, \$4.50 per dozen; \$35.00 per 100.

DREER'S PRIZE CINERARIAS.

A fine lot of strong 3-inch pot plants, 60 cents per doz.; \$4.00 per 100.

Miscellaneous Decorative Plants.

ARAUCARIA EXCELSA.

6-in. pots, 18 to 20 inches high, 4 to 5 tiers.....\$1.00 each.
6-in. pots, 20 to 24 inches high, 4 to 5 tiers..... 1.25 each.
7-in. pots, 24 to 26 inches high, 5 to 6 tiers..... 1.50 each.

ARAUCARIA EXCELSA GLAUCA.

6-in. pots, 12 inches high, 2 to 3 tiers.....\$1.00 each.

ARAUCARIA ROBUSTA COMPACTA.

5-in. pots, 10 inches high, 2 to 3 tiers.....\$1.25 each.

AUCUBA JAPONICA.

A fine lot of bushy plants of this useful hardy decorative.
Bushy plants, 12 inches high.....30 cents each; \$3.00 per doz.
Bushy plants, 18 to 20 inches high.....40 cents each; 4.50 per doz.
Bushy plants, 24 inches high.....60 cents each; 7.00 per doz.

PYRAMID SHAPED BOX TREES.

A fine lot of shapely specimens, 30 to 36 inches high, 15 to 18 inches in diameter at base, tapering to a point, \$1.00 each.

STANDARD OR TREE SHAPED BOX.

Nicely shaped little trees with stems 20 to 24 inches high and bushy crowns about 16 inches in diameter. \$1.25 each.

DRACAENA FRAGRANS.

Good plants, 4-inch pots.....\$2.00 per doz.; \$15.00 per 100
Good plants, 5-inch pots..... 3.00 per doz.; 20.00 per 100
Good plants, 6-inch pots..... 4.00 per doz.; 30.00 per 100

DRACAENA SANDERIANA.

Nice plants for centers of fern dishes, 3-inch pots, 5 to 6 inches high, \$2.50 per dozen; \$20.00 per 100.

FIG 'S ELASTICA.

4-inch pots, 10 to 12 inches high.....\$3.00 per doz.; \$25.00 per 100
5-inch pots, 15 to 18 inches high..... 4.50 per doz.; 35.00 per 100
6-inch pots, 24 inches high..... 7.50 per doz.; 60.00 per 100

FERN CIBOTIUM SCHIEDEI.

The only Tree Fern worth growing. GRACEFUL, DECORATIVE and as HARDY as a palm, 7-inch pots, \$1.50 each, 9-inch pots, \$3.00 each.

FERN ADIANTUM FARLEYENSE.

A grand lot of plants, healthy and vigorous.
3-inch pots.....\$2.00 per doz.; \$15.00 per 100
4-inch pots..... 5.00 per doz.; 40.00 per 100

FERNS IN MIXTURE FOR FERN DISHES.

2-inch pot plants.....\$3.00 per 100; \$25.00 per 1000
3-inch pot plants..... 6.00 per 100; 50.00 per 1000

PANDANUS VEITCHI.

A fine lot of 6-inch pot plants, \$1.00 each.

PANDANUS UTILIS.

An excellent lot of 6-inch pot plants, 60 cents each; \$7.00 per doz.

HARDY AZALEA MOLLIS.

For early forcing the Mollis Azaleas are gaining favor very rapidly. We offer a nice lot of bushy plants, well set with buds, from 12 to 15 inches high, \$1.50 per dozen; \$35.00 per 100.

DEUTZIAS FOR FORCING.

GRACILIS ROSEA. Strong two-year-old field-grown plants suitable for 6-inch pots, \$1.00 per dozen; \$8.00 per 100.

LEMOINEI. Strong two-year old plants, excellent stock, suitable for 6-inch pots, \$1.00 per dozen; \$8.00 per 100.

JAPANESE FERN BALLS.

New dormant stock expected to arrive during the latter part of this month. Place your order now for prompt shipment as soon as importations arrive.

First-class balls, 7 to 9 inches in diameter.....\$3.25 per doz.; \$25.00 per 100
First-class balls, 5 inches in diameter..... 2.00 per doz.; 15.00 per 100

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA, PA.

Worcester, Mass.

THIS CITY SHARES THE GENERAL INCLEMENCY OF WEATHER FOR THANKSGIVING.—BUSINESS FAIRLY SATISFACTORY.

Thanksgiving is again a thing of the past, and though the increase in the amount of business over that of last year was not great, it was satisfactory, taking everything into consideration. The inclemency of the weather had a detrimental effect on business. Wednesday and Thursday were very disagreeable days and hurt the transient trade very much. Flowers, as a rule, were plentiful. Bridesmaids of the better grades were short and we could have handled more Liberty. Chrysanthemums cleaned up by Thursday noon and make good prices. Yellow shortened up by Wednesday night and was the color most in demand. Pink moved slower than white, bronze or red varieties. Carnations were in fair supply and cleaned up by Thursday noon at fair prices, Lawson being most in demand. Violets were plentiful and cleaned up well Wednesday, but Thursday's supply moved very slowly. There was very little call for plants, although good cyclamens, oranges, ferneries, and so forth were displayed in many of the stores. Thanksgiving might be called the cut flower day of the year.

An unusual rush of funeral work this week has shortened up flowers in all lines, and at this writing stock is very scarce, with the probability of remaining so for some time. Although we have had a slight fall of snow, the weather remains very warm. A. H. L.

Columbus, O.

WEATHER TAKES A FAVORABLE TURN.—TRADE AND STOCK BOTH IMPROVED BY FROST.

We are now having the first cold weather of the season. Every grower is glad to see a stiff frost, for it improves business and stock. Thanksgiving trade was largely affected by rain. While some of the craftsmen report business as good as usual, it is generally claimed that the demand was cut short. While chrysanthemums are now about cleaned up, there was a good supply on hand for the Thanksgiving trade and there was a good demand for them. Narcissi are now making their appearance and are selling well. CARL.

Cyclamens IN BUD and BLOOM.....

See what others say of my Cyclamens: "The Cyclamens came through in splendid condition, in fact better than any I have ever received. Very respectfully, Mrs. EDGAR HALL, Austin, Texas." Five days on the road and in splendid condition: so is all my other stock. X 4-in., \$10 and \$12 per 100; 5-in., \$18 and \$25.

PRIMROSES, in bud and bloom, 4-in., \$8.
CINERARIAS, frame grown, fine stock, 3-in., \$5.
Field-Grown ASPARAGUS SPRENGERI, \$3, \$5 and \$7 per 100. CHRIST WINTERICH, Defiance, O.

Ficus Elastica 4 and 5-in. Pots,

Latania Borbonica and Kentias 3 and 4-in. pots

I have a fine stock of the above which is offered to the trade at a bargain. If you have room a large profit can be made on these plants in a short time. Write for prices; they are too low to quote here. W. W. COLES, KOKOMO, IND.

FERNS.

2 1/2-inch Mixed Ferns.....\$3.00 per 100 Cash
2 1/2-inch Dracaena Individua..... 3.00 per 100 or
25 Mixed Ferns, prepaid..... 1.00 C.O.O.

WM. A. CLARK & SON 44 Boyd Street, Watertown, N. Y.

ORCHIDS!

FOR SALE ABOUT FIFTY

Odontoglossum Crispum,

Fine healthy established plants of blooming size at \$1.50 each. Also

Cattleyas, Cypripediums, Laelias

WRITE FOR PRICES.

Dr. R. SCHIFFMANN, St. Paul, Minn.

Hardy Herbaceous Plants.

Japanese Iris, German Iris and Paeonias, Specialties.

Golden Glow, Eulalias, Day Lilies, Hardy Sunflowers, Dragon's Head, Cone Flowers, Boltonias, Sedums and a long list of other valuable kinds in large supply. Please write for lists of varieties and prices; they will probably surprise you.

J. T. Lovett, Little Silver, N.J.

ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong, 2 1/2-inch, \$3.50 per 100.
SPRENGERI, strong, 2 1/2-inch, \$2.50 per 100.

BOSTON FERNS.

From bench fit for 3, 4, 5, 6, 7 and 8-in., 2 1/2 c, 5c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA

Extra fine, 4 to 7-inch pots, only 12c per leaf.
25 FINE RUBBER PLANTS, 3 feet, \$1 each, or the lot for \$20.00. CASH PLEASE.

A. J. BALDWIN, NEWARK, OHIO.

Primroses

CHINESE, single, mixed, 2 1/4-in. pots..... Per 100 \$1.50
ASP. PLUMOSUS, 2 1/4-inch pots..... 3.00
GERANIUMS, 10 varieties, 2-inch pots..... 2.50

PANSY PLANTS \$2.50 per 1000. .50

CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

Orchids!

Just arrived in perfect condition,
LAELIA ELEGANS
and Cattleya Intermedia. Write for particulars.
Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

The Great SHASTA DAISY

Flowers pure white, nearly a foot in circumference, long stiff stems, good cut flower, hardy as an oak. Strong plants, \$1.00 per doz. by mail; \$6.00 per 100 by express. Small, 75c per doz. Spotted Calla bulbs, \$2.00 per 100.
S. J. CALLOWAY, EATON, OHIO.

Mention the American Florist when writing to advertisers on this page.

CARNATIONS

20,000 Mrs. Fisher, R. C. and 2-inch.

GERANIUMS

10,000 rooted cuttings and 2 1/2-inch.

Boston Ferns

Any size, from 2 1/2 to 10-inch.

Asparagus

PLUMOSUS, 2 1/2, 3 and 4-inch.
SPRENGERI, 2 1/2, 3 and 4-inch.

Write GEO. A. KUHLE, PEKIN, ILL.

CHOICE ASPARAGUS PLUMOSUS

for Xmas, 4-in. fine, \$15 per 100; 5-in., \$25 per 100.
Chrysanthemums, \$5 a 100; 75c a doz.

STOCK Well furnished with cuttings.
WHITE: Fitzwygram, Bergmann; Queen, Robinson, Ivory, Jones. YELLOW: Whilldin, Bonnafon, Wedding. PINK: Pacific, Morel, Perrin, Maud Dean. Special and scarce kinds—Chadwick, white; Childs, red; Appleton, yellow. #6 per 100; 75c per doz. W. H. CULLETT & SONS, LINCOLN, ILL.

The New Fern "ANNA FOSTER"

Unqualified success, greatly admired, small plants, \$25 per 100. Large plants, cut from bench, \$50, \$75, \$100 per 100. Pot plants, 5-inch, \$1.00; 6-inch, \$1.50 each. KENTIA PALMS, \$50, \$75, \$100 per 100. RUBBERS, 5-inch, 18 inches, \$4 per doz. L. H. FOSTER, 45 King St., Dorchester, Mass.
Please mention the American Florist when writing.

REDUCED RATES FOR CHRISTMAS AND NEW YEAR HOLIDAYS.

The Nickel Plate Road will sell tickets December 24, 25 and 31, 1902, and January 1st, 1903, at rate of a fare and a third for the round trip, to any point located in Central Passenger Association territory, good returning to and including January 2nd, 1903. Pullman service on all trains. Individual Club Meals, ranging in price from 35c to \$1.00, served in dining cars. Address John Y. Calahan, General Agent, 113 Adams St., Chicago, for particulars. Chicago city ticket office, 111 Adams St.; Depot, Harrison St. and 5th Ave. 65



AZALEAS.

All the best sorts, such as Bernard Andrea Alba, Deutsche Perle, Vervaeana, Simon Mardner, Mme. Van der Cruyssen, Virginiana, Empress of India, and many others.

PRICE IN ASSORTED LOTS, FOR EARLY ORDERS:

10 to 12-inch crowns, bushy plants.....	\$40.00 per 100
12 to 14-inch crowns, bushy plants.....	50.00 per 100
14 to 16-inch crowns, bushy plants.....	60.00 per 100
16 to 18-inch crowns, bushy plants.....	\$12.00 per doz.
18 to 20-inch crowns, bushy plants.....	25.00 per doz.
20 to 22-inch crowns, bushy plants.....	30.00 per doz.
22 to 24-inch crowns, bushy plants.....	36.00 per doz.

We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

BOSTON FERNS.

Extra choice lot of compact, bushy, pot-grown plants.

2 1/2-inch pots.....	\$5.00 per 100	5-inch pans.....	\$40.00 per 100
3-inch pots.....	10.00 per 100	6-inch pans.....	9.00 per doz.
4-inch pots.....	25.00 per 100	7-inch pans.....	12.00 per doz.

Chrysanthemums

STOCK PLANTS FROM BENCH AND FROM 6-INCH POTS.

Per Dozen, \$1.50; per 100, \$10.00.

Mrs. Jerome Jones.
Major Bonnaffon.
Mrs. H. Robinson.
May Forster.
Mrs. O. P. Bassett.
Miss Agnes L. Dalskov

Superba.
Vivian-Morel.
Wm. H. Chadwick.
White Bonnaffon.
Walter Molatsch.
Xeno.

Yellow Mrs. J. Jones.
Timothy Eaton.
Mrs. Elmer D. Smith.
Chestnut Hill.
Col. D. Appleton.

Anemone & Pompon Vars.

Per Dozen, \$3.00.
Delicatum. Descartes.
Garza. Mary Stuart.
Mispha. Magnificus.
Miss May Williamson.
Surprise. Viola.

Per Dozen, \$3.00.

Gold Mine.
Marian Newell.
Omega.
Opah.
Polar Queen.
Yanariva.

Chito.
Geo. W. Childs.
Intensity.
Ivory.
John K. Shaw.
Mrs. Trenor L. Park.

DORMANT STOCK FOR EASTER FORCING NOW READY.

ROSES

Crimson Rambler. Can supply both own roots and budded—3-year-old, extra heavy.....	Per 100	\$18.00
2-year-old, extra heavy.....		15.00
Hermosa, 2-year, own roots.....		18.00
La France, 2-year, budded.....		18.00
American Beauty, 2-year, budded.....		20.00
Kaiserin, 2-year, budded.....		20.00
Mme. Chas. Wood, 2-year, budded.....		15.00
Paul Neyron, 2-year, budded or own roots.....		18.00
H. P. Roses, standard sorts budded.....		11.00

HYDRANGEAS

Pot Grown for Forcing.
Thos. Hogg, 12-15 branches..... \$35.00 per 100
Otaksa, 6-8 branches..... 35.00 per 100

LILACS, Pot Grown for Forcing.....

9.00 per doz.

RHODODENDRONS, Best Named kinds for Forcing.

12-15 buds..... 12.00 per doz.

Larger sizes from \$2.00 to \$4.00 each.

AZALEA MOLLIS, 15-25 buds..... 4.00 per doz.

VAUGHAN'S SEED STORE, 14 Barclay Street, New York.
84-86 Randolph St., Chicago.
GREENHOUSES, WESTERN SPRINGS, ILL.

Prepare Now

FOR CHRISTMAS SALES. You will find the following stock a good investment and just as represented. It is in need of a shift, and being short of room, we must sell at reduced prices.

ASPARAGUS SPRENGERI, extra strong field-grown, stored in frames. Has not been frosted. These plants are making new top and root growth. If potted now will be fine for Christmas. Plants large enough for 4-inch and 5-inch pots or pans. \$3.00 and \$5.00 per 100 respectively.

ADIANTUM CAPILLUS VENERIS, the best for fern dishes. Bushy 2 1/2-inch pot plants, \$3.00 per 100.

CHINESE PRIMROSES, select strain. Reading Scarlet, best of its color. Light Rose Pink, no trace of magenta. Large plants from 3-inch pots, in bud and some bloom, \$4.00 per 10.

CINERARIA STELLATA, good for pot displays or cutting. Extra strong, from 3-inch pots, \$1.00 per 100.

CYPERUS ALTERNIFOLIUS, large 3-inch stock, \$3.00 per 100.

JUSTICIA, flowers in loose panicles from December to March. Color, dark pink, almost purple. Of easy culture, adapting itself to varying conditions. Its lasting quality and freedom of bloom make it desirable for all kinds of decorating. Bushy, well formed plants in bud and bloom, from 7-inch pans, 30¢ each; \$3.00 per doz.

GERANIUMS. The following standard varieties are from fall struck cuttings: S. A. Nutt Marvel, Sam Sloan, from 2 1/2-inch pots, \$2.50 per 10. Jean Viaud, Mme. Landry, Dryden, Little Pink, from 2 1/2-inch pots, \$3.00 per 100.

NATHAN SMITH & SON, Adrian, Mich.

\$2.50 PER 1000. This offer good two weeks only to make room. Bargain.

GIANT PANSIES, fine stocky plants, in varieties equal to any.

REG BEXONIAS, 15 varieties, fine, 2-inch, \$3.50 per hundred.

DOUBLE DAISIES Snowball, Giant, Longfellow. Satisfaction Guaranteed. Cash.

BYER BROS., Chambersburg, Pa.

PALMS, FICUS AZALEAS, Etc.

PALMS.

KENTIA BELMOREANA, 2 1/2-in. pots, \$6.00 per 100; \$50.00 per 1000.

KENTIA BELMOREANA, 3-in. pots, \$12.00 per 100; \$100.00 per 1000.

KENTIA BELMOREANA, 24 to 28 inches, fine bushy plants, \$1.25 each; \$15.00 per doz.

KENTIA BELMOREANA, 30 to 32 inches, perfect condition, \$1.75 each; \$20 per doz.

AZALEAS, 10 to 12-in. crowns, \$35 per 100.

" 12 to 14-in. crowns, \$45 per 100.

" 14 to 15-in. crowns, \$55 per 100.

FICUS ELASTICA.

4-in. pots, heavy strong stock, \$20 per 100.
5-inch pots, 18 to 20 inches, \$30.00 per 100.

DEUTZIA (Fine for Forcing)

LEMOINEI, 18 to 24 inches, \$8.00 per 100.

GRACILIS, 18 to 24 inches, \$8.00 per 100.

SPIRAEA JAPONICA, \$3.00 per 100.

COMPACTA, \$3.50 per 100.

FLORIBUNDA, \$4.50 per 100.

CYCAS REVOLUTA, 60c, \$1.00, \$1.25 \$1.50 and \$2.00 each.

BOSTON FERNS, 2 1/2-in. pot, \$3.00 per 100.

PRIMULA CHINENSIS, 2 1/2-in. pots, \$2.50 per 100.

The Storrs & Harrison Co.
PAINESVILLE, OHIO.

BEGONIA GLOIRE DE LORRAINE,

Begonia Light Pink Lorraine,

For July and Later Delivery.
\$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near Chestnut Hill, Pa.

Please mention the American Florist when writing.

SPECIALTIES

ROSES, from 3-inch pots, **In Best**

CARNATIONS, for all delivery,

CHRYSANTHEMUMS,

SMILAX, VIOLETS. **Varieties**

Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.

Please mention the American Florist when writing.

Toronto.

LAST MONTH'S BUSINESS AFFORDS NO CAUSE FOR COMPLAINT.—ROSES SHORT BUT CARNATIONS PLENTIFUL.—NOTES.

November business was good enough to make all rejoice and unusual activity in all branches of the trade is using up available stock. Everyone is clamoring for roses, but unfavorable weather has kept down the supply of choice blooms. Meteor and Liberty are decidedly short and, with Beauties, the outlook for a crop for the holidays is not very bright. Carnations are very plentiful, of very high grade and an elegant supply is promised. Violets have shortened up considerably and prices vary in consequence.

Manton Brothers have been handling some very fine conifers this season. This city has only awakened to the beauty of these hardy specimens.

Grobba & Wandrey have been bringing in some very good poinsettias, which find ready sale. Their azaleas are the first of the season.

Jno. H. Dunlop has some Gloire de Lorraine begonias in full bloom.

H. G. D.

Albany, N. Y.

QUIET BUSINESS BEFORE THE STORM OF HOLIDAY ORDERS.—STOCK SCARCE.—FLORIST FINDS NURSERY STOCK PROFITABLE.

Dealers report a considerable falling off in business during the past two weeks, due in a large measure to the dark weather, which has made stock scarce. The orders received are mostly for minor decorations and small weddings. The trade is waiting for the holidays and the opening of the state legislature the first week in January.

Louis Menand, at Cemetery Station, reports that his sales of nursery stock this fall have gone far beyond his expectations. The demand was for evergreens, and hardy trees and shrubs. As a result of the season's sales, Mr. Menand will go more extensively into nursery stock in the future.

R. D.

Plants FOR THE Holidays

ARAUCARIA EXCELSA. We have the largest stock in the country. May importation, raised from top cuttings only. 5 1/2 to 6-inch pot plants, from 20, 22, 23, 24 and up to 26 inches high, 3, 4 and 5 tiers, 70c, 75c, 80c, 90c and \$1 each. Our specimens are perfect beauties, as broad as they are high. 6-inch pots, 5 to 6 tiers, very large, prices very low, for we must move them to make room for Easter plants, \$1, \$1.25, \$1.50 to \$1.75 each.

A BIG MISTAKE you make if you try another firm, because we are specialists and are large importers and carry strictly the largest and cheapest stock of Araucaria Excelsa.

AZALEAS for Christmas, in bud and bloom, are showing color now and will be right for Christmas. Only large, healthy plants, which will force successfully, no small ones. Vervaneana, Simon Mardner, double pink; Deutsche Perle, double white. 60c, 75c and \$1 each.

KENTIA BELMOREANA and **FORSTERIANA**, 6-inch pots, first-class stock only, 3 to 4 years old, from 25 to 36 inches high, only 75c to \$1 each.

FICUS ELASTICA, 6-inch pots, \$3, \$4 and \$5 per dozen; specimens 36 inches high, \$6 per dozen.

CHINESE PRIMROSES, very bushy, in bloom and bud, only \$1.80 per dozen; 1-inch, also large and bushy, at the rate of \$5 per 100.

CALLA LILIES, 6-inch pots, 25 inches high, 20c; **DRACAENA BRUANTI**, 25 inches high, green and full of leaves from top to bottom, \$5 per dozen.

BEGONIAS in variety, 6-inch pots, \$3 per dozen; 1-inch pots, \$1.20 per dozen.

Cash with order please. To save express mention if pots to be taken off.

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WHOLESALE GROWER AND IMPORTER OF POT PLANTS,

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BOSTON FERNS 5-in. pots, \$3.00 per doz.
6-in. pots, 5.00 per doz.
6-in. strong 6.00 per doz.
7-in. pots, 7.20 per doz.

ASPARAGUS PLUMOSUS NANUS,
4-in. pots, fine plants, \$1.50 per doz.
4-in. pots, extra select, \$2.00 per doz.

FERN BALLS furnished with leaves, \$5.00 per doz.

FERNS FOR DISHES
2-in. pots, good varieties, assorted, \$3.00 per 100.
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AZALEAS We have 10,000 from which to select your stock. Place orders at once.

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Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 50c per 100; \$5 per 1000; \$45 per 10,000.

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BUCHNER	lot	1.25	10.00
VIAUD	now	2.00	15.00
CASTELLANE	ready	2.00	15.00
PERKINS		2.00	15.00
POITEVINE		2.00	15.00
LANDRY		2.00	15.00
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S. A. NUTT		1.25	10.00

ACTEON, LA FAVORITE, LA PILOT, BONNOT AND CASTRIS, \$1.50 per 100.

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A FEW GOOD THINGS YOU WANT.

- ARECA LUTESCENS**, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
- KENTIA** Belmoreana and Forsteriana, extra clean and well grown plants, 2 1/2, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
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- ENGLISH IVY**, 2 and 3-inch, \$3 and \$6 per 100
- CAMPBELL VIOLETS**, 3-inch, \$4.00 per 100.
- VINCA VAR.**, 3-inch, \$4.00 per 100.
- Chinese Primrose**, 3-in., \$5; 4-inch, \$8 per 100

Cut Rate on GERANIUM CUTTINGS.

Single Grant, 75c per 100.
S. A. Nutt, Double Grant, La Favorite, Bonnot, \$1.00 per 100.
Jaulin, Poitevine, Riccard, Mrs. E. G. Hill, Frances Perkins, \$1.25 per 100. Cash or C. O. D.

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Geraniums ROOTED CUTTINGS.

S. A. Nutt and La Favorite, \$1.10 per 100; \$10.00 per 1000. Healthy and well rooted. Will prepay express in United States for 15c per 100; \$1.00 per 1000.

S. A. Nutt from 2 or 2 1/2-inch pots, \$2.00 per 100; \$18.00 per 1000.

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are right you can make a profit on an advertisement here.

Specialties for Xmas

Select Delaware Holly, per case, \$5 00; 5 cases, \$22.50.
 Select Southern Ho'ly, per case, \$4.00; 5 cases, \$18.00.
 Fresh picked Bouquet Green, case, \$5 00; 5 cases, \$22.50.
 Bouquet Green Wreathing, per 100 yds, \$3 00; 500 yds., \$13.50; 1000 yds., \$25.00.
 l'ex, Red Berries, per case, \$2 00; 5 cases, \$8.00
 Wild Smilax, 25 lb case, \$3 00; 35 lb. case, \$4 00; 50 lb. case, \$5.00. Write or wire for prices on larger quantities.

Holly Wreaths, Green Wreaths, Galax Leaves, Magnolia Leaves, Leucothoe Sprays, Poinsettias, Smilax, Asparagus, Ferns, California Pepper Berries

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A Weekly Illustrated Journal.

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will afford its patrons an opportunity to take advantage of low rates for Christmas and New Year holidays, by selling tickets at a fare and a third for the round trip to all points on their line, December 24, 25, 31, 1902, and January 1, 1903. Return limit including January 2nd, 1903. Through service to New York City, Boston and other eastern points. Chicago passenger station, Harrison St. and 5th Ave. For further information, address John Y. Calahan, General Agent, 113 Adams St., Chicago. 66

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150 Plates and nearly 300 varieties for \$3 50 or three for \$10.00.

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Cape Flowers, all colors,
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Send for Prices.

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"Chemicals"

for making LIQUID COMPOST.
 Dry powders all soluble in water. Composts cost less than 1/20 per gal. Correspondence invited.

EASTERN CHEMICAL COMPANY,
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This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs....

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 Liberal terms to florists who take subscriptions.
 THE GARDENING CO. MONON BUILDING,
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The Florists' Hail Asso'n Pays Losses Promptly.

Reserve fund \$10,000. For particulars address
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FOR CROWING SMALL PLANTS.

Two Sizes. } No. 1. 11 3/4 x 12 1/2 and 11 inches high.
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 Are folded up in compact package of about one cubic foot; weight about 18 pounds.

SMALL OR No. 1 SIZE.		LARGE OR No. 2 SIZE.	
1 house.....	\$ 4.50	1 house.....	\$ 6.50
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BY PROF. JOHNSON.

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LUDWIG MOLLER, ERFURT, Germany

Washington.

SOCIAL SEASON BEGINS WITH THE CONVENING OF CONGRESS.—TRADE NOW ACTIVE AND PROSPECTS BRIGHT.—A DEATH.—OTHER NOTES.

J. Louis Loose had the decoration for the Swayse-Edwards wedding. The drawing rooms were beautiful with chrysanthemums so arranged as to harmonize with the permanent decorations of the rooms. American Beauties were used in the dining room.

Trade has taken a turn for the better. Since Thanksgiving day it has been very good and stock seems to be equal to the demand. With the convening of congress and the return of most of the entertainers the florists find their hands full.

Mrs. C. Strauss, for a number of years in the florist business, but who retired some time ago and was succeeded by the American Rose Company, died November 29, at her residence on the Bladensburg road.

J. H. Small & Sons and A. Gude & Brother each sent several wagon loads of floral designs to members of congress on the opening day.

At Richard R. Townsend's funeral there were a large number of beautiful designs, the bulk of which were furnished by J. H. Small & Sons.

John Shine has returned to Washington, and is now with George C. Shaffer, who reports a good Thanksgiving business. P. G.

Newport, R. I.

The floral display at the funeral of George Pierce, a well-known railway official, was never equalled in this city. It required one car to transfer the various pieces, fifty-nine in number, to Chelsea.

Axel Magnuson has accepted the position of gardener to George M. Black, at Manchester-by-the-Sea, while Thomas Kirlichen, formerly with Mrs. Coleman, is now gardener for Mrs. J. Amory Codman, in this city.

Hard coal holds at \$9 per ton but the weather is mild. C. J. M.

WARREN, PA.—B. Scheller has just completed another house 16x60 for bedding plants.

CYPRESS



Green House Material

Hot Bed Sash. Red Cedar Posts.

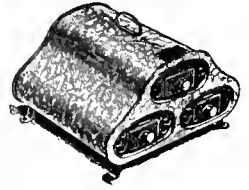
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WANTED Greenhouse Plants and Rooted Cuttings, small boiler and 500 feet pipe; 500 feet glass that has been used and sash bars. Address **FLORIST, CHRISTIANSBURG, VA.**

PROTECT Your Plants From Freezing in Cold Weather by getting a

LEHMAN WAGON HEATER



175,000 in use. Recommended by all florists who have them in use. Cost of heating from Fuel is less than ONE-HALF CENT AN HOUR Write for circular and price list today.

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New Twin Section Boiler.

Clear Gulf CYPRESS GREENHOUSE MATERIAL. Glass AND Boilers

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Estimates furnished for Erecting.

Send 4 cts. for Boiler Catalogue.

GET OUR PRICES BEFORE ORDERING.



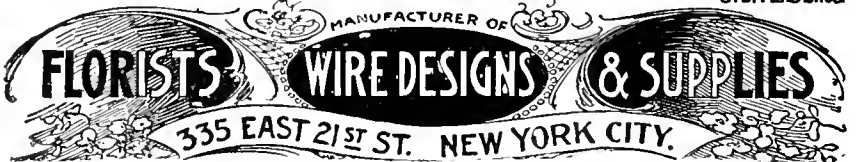
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Cal. Red Cedar and La. Cypress.

BEST GRADES, PERFECT WORKMANSHIP. Write for Catalogue and Estimates.

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Baskets, Puerto Rico Mats, Cycas, Waterproof Paper, Glass, China.

FOR THE WHOLESALE TRADE ONLY.

Horticultural Builders & Heating Engineers

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Tobacco Stems...

FRESH and STRONG. Bale of 300 pounds, \$1.50 Cash with order.

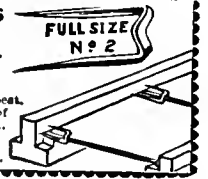
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 Clean and harmless
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WESTERN FLORISTS...
 can save money in buying
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 We are now booking orders for Christmas Deco-
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 Importer and Manufacturer of
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LOTS OF THEM ON EXHIBITION.
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 or Palm Materials for Manufacturers, etc..
 Write to **CLARE & SCHARRATH,**
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KIFT'S Patent ADJUSTABLE VASE HOLDER
 No. 1.—Brass, nickel, 4 feet long, 6 clasps to each
 rod. Price complete (with green or white tum-
 blers) \$2.25. Price complete (with green or white
 cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod,
 brass and nicked, with three clasps for 5 to
 6-inch pots, each \$1.75.
**KIFT'S Patent Rubber Capped FLOWER
 TUBES,** 1 1/2-inch diameter, per 100, \$3.50.
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THE KINNEY PUMP.
 For applying liquid manure it has no equal. Sent
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 Buy **The Best Goods**
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 In **America, Which**
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 Baskets. Special Stock now
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 Leaves, Cycas Wreaths and
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 Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.
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 word.
 Used by leading florists everywhere and for sale
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**LEADING
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 Catalogue for the asking.

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 When you can't get what you want anywhere
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Always mention the American Flo-
 rist when you order stock

NOTICE.
THE MODEL PLANT STAKE COMPANY.
 formerly of Brooklyn, N. Y., has removed
 to 208 Jersey St., Harrison, New Jersey,
 and is now The Parker-Bruen Mfg. Co.

**The Model Extension
 Carnation Support.**



Flushing, Long Island,
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MR. THERON N. PARKER,
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 Dear Sir — I have used
 your Wire Carnation Sup-
 port the last two years. In
 all about 12,000. They fill
 the bill in every particular.
 Nothing could be more
 satisfactory and would
 give me a great deal of
 pleasure if I can bespeak a
 good word for you to the
 trade and you are at liberty
 to refer to me at any
 time.
 Very truly,
A. L. THORNE,
 La Fayette, Ind.,
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MR. THERON N. PARKER,
 Harrison, N. J.
 Dear Sir: — After using
 your Model Carnation Sup-
 port in two of our houses
 the past winter, we have
 come to the conclusion that
 it is perfectly adapted to
 supporting carnations, and
 shall use them on all our
 plants the coming season.
 We were much pleased
 with the simplicity,
 strength and neat appear-
 ance of the support
 Yours truly
F. DONNER & SONS Co.
 Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
 208 Jersey St., Harrison, N. J.

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 geographical and biographical sketches

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 324 Dearborn St., Chicago.

New Bedford, Mass.

GOOD PRIVATE RANGES IN NEARBY TOWN.— A STIMULANT TO TRADE.— FUNERAL WORK PLENTIFUL.

About a mile from New Bedford, across the Acushnet river, lies the town of Fairhaven. This cuts some figure floriculturally, from the fact of there being two private greenhouse establishments there that are of much interest to the flower loving public. The one belonging to W. P. Winsor is presided over by Peter Murray, a young Scotchman, who has the faculty of growing things a little better than the rest of us about here. They have the only house of orchids in this part of the state. Along in March, when the houses are the best, they are thrown open to the public and crowds of people visit them. This is a benefit to the commercial growers for it stimulates the demand for fine plants and flowers. The other place is that of Henry H. Rodgers, of the Standard Oil Company, whose birthplace and summer residence are in Fairhaven. His greenhouses are also presided over by a Scotchman, Mr. Garthley, who also has the happy faculty of making plants grow to perfection. If anybody can make figs grow on thistles, it must be a Scotchman. Mr. Rodgers is now building several new houses and will have a fine range when they are completed.

Owing to a dismal rainstorm, Thanksgiving trade was not so good as last year. Some of the retailers had a good many flowers left over, especially carnations. There was a special demand for yellow chrysanthemums for golden weddings. The local growers had sold about all their stock before Thanksgiving, so everybody had to send out of town for supplies.

Carnations are blooming quite freely just now, especially Lawson and Scott. Cressbrook is not doing anything so far. Jahn's White is a beauty, large flowers and an early bloomer. A. B. H.

SPRINGFIELD, ILL.—A. C. Brown is preparing for a large holiday business in holly and green. Cut flower and plant trade promises to be very active before Christmas. Chrysanthemums are all gone and carnations are in excellent demand at good prices. A. C. Canfield's roses and carnations are doing finely and he finds a good market for them in St. Louis.

Sprague Smith Co.
PLATE AND WINDOW GLASS
Greenhouse Glass a Specialty
205 Randolph Street, CHICAGO

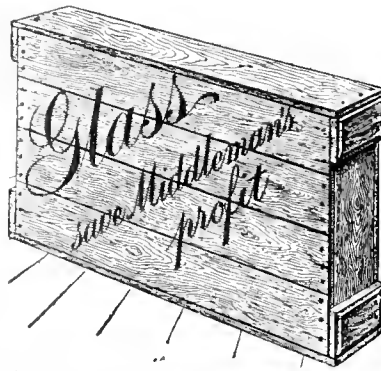
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WRITE FOR ILLUSTRATED CATALOGUE
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SEMON BACHE & CO.

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FRENCH GLASS

Direct shipment from abroad.

MYERS & CO.

Established 1849.

**Greenhouse Boilers.
Iron Bench Frames.**

**GREENHOUSE ARCHITECTS AND BUILDERS
HEATING ENGINEERS.**

116 South 17th Street, Philadelphia, Pa.

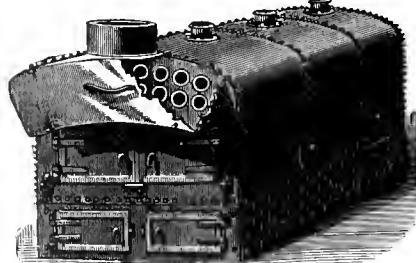
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USE IT NOW.
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GEO. M. GARLAND,
IRON GUTTERS AND POSTS.
Testimonials from leading growers.
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Greenhouse Boiler,
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Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

Always mention the American Florist when you order stock.



WILKS Hot Water Heaters.
Best made for Greenhouses. SELF-FEEDING MAGAZINE.
All Steel. Simple, strong, durable. Send for Catalog, etc.
S. Wilks Manfg. Co., 53 to 55 E. Clinton St., CHICAGO.

DILLON'S GREENHOUSE MFG. CO. Bloomsburg, Pa.
 MANUFACTURERS OF HOT BED SASH, AIR DRIED GULF CYPRESS SASH BARS AND OTHER GREENHOUSE MATERIAL.
 BUILDERS of DURABLE and PRACTICAL Greenhouses at a LOW COST.
 Our descriptive circular contains valuable information for every florist. Send for it.

Standard Flower Pots

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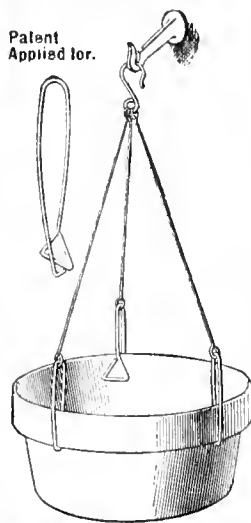
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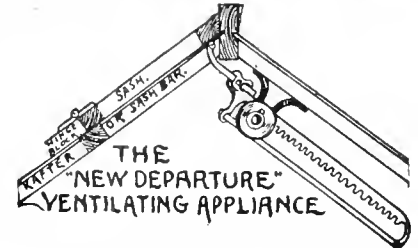
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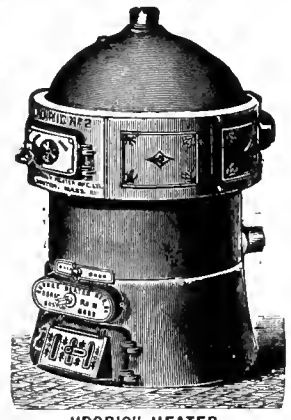


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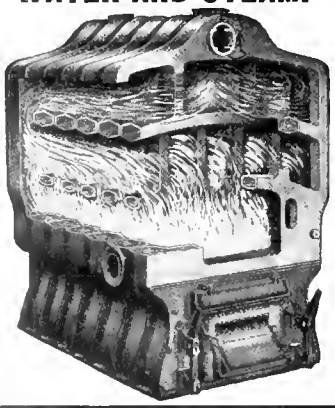
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Vol. XIX.

CHICAGO AND NEW YORK, DECEMBER 13, 1902.

No. 758.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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OFFICERS-ELECT—JOHN BURTON, president; C.
C. POLLWORTH, vice-president; secretary and
treasurer as before. Nineteenth annual meeting
at Milwaukee, Wis., August, 1903.

THE AMERICAN CARNATION SOCIETY.

Annual convention at Brooklyn, N. Y., Feb-
ruary, 1903. ALBERT M. HERR, Lancaster, Pa.,
secretary.

AMERICAN ROSE SOCIETY.

Annual meeting at call of executive committee,
LEONARD BARRON, 136 Liberty St., New York,
secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual convention subject to call of executive
committee. EDWIN LONSDALE, Chestnut Hill, Pa.,
secretary.

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Notes and Comments.

In "Random Reflections" made in New York, exception is taken to some of the "Notes and Comments" which appeared in a recent issue of the AMERICAN FLORIST, and in connection therewith, from an entirely different quarter, I am advised and assured that the stand made by "E. L." is all right, and to substantiate same he is reminded that the method adopted by those in authority and who had charge of the Plant Breeding Conference, held last fall in the city of New York, is along the lines advocated, for those wise men did not scatter that valuable information broadcast, showing distinctly that some other people have the same opinion that I have. I have frequently noticed that wise people think the way I do. Whether all the papers prepared for that conference are obtainable or not, I do not know. I hope they may be. It frequently happens when anything of value is secured easily, or at too low a cost, it is not so fully appreciated as when it is valued more nearly according to its intrinsic worth.

No one could object now to paying \$1 to become a member of the Chrysanthemum Society of America and to be entitled to all those valuable papers prepared for the meeting held at Chicago when printed and put into pamphlet form, including the discussions which followed the reading of the papers. At the present time there is encouragement to solicit membership dues because there is something to offer in exchange for the dollar requested. Until the present time nothing but sentiment and altruism was our stock in trade—nothing more tangible to offer for the membership fee—and the evidence of the beneficent work done by the novelty committees.

The C. S. A. was not self-supporting from the membership dues alone and not until 1894 was it so, when the society adopted the system now in operation of inviting the exhibition of novelties, charging an entrance fee of \$2 for each chrysanthemum seedling, sport or imported variety examined by each committee. It has now accumulated a snug little sum which is in the treasury.

It perhaps would be better, as suggested by your New York contemporary, for the secretary of a society to review the papers prepared to be read before a given society, national or otherwise, because he would be more likely to be in closer touch with the subjects treated than the editor and it would be far less trouble for the editor. I cheerfully

accept the amendment. Such indications are an evidence, I take it, that the New Yorkers are beginning to think the same way I do, consequently there is hope that everything may yet be all right. Let's hope so.

A year or two ago a very prominent grower of roses made a statement somewhat to this effect, that the retail florists were to blame for the paucity of varieties of roses offered over the counter for sale to the public, for they would not buy, or bought reluctantly, any but American Beauty, Bride and Bridesmaid.

In conversation recently with A. B. Cartledge, one of the firm of Pennock Brothers, Philadelphia, he denied that the dealer was to blame. To prove his statement he pointed to the supply they carried, which consisted of American Beauty, American Belle, Queen of Edgely, Liberty, Meteor, Bride, Bridesmaid, Ivory, Golden Gate, Sunrise, Mme. de Watteville, La France, Becker's Ideal, Safrano, Isabella Sprunt and Bon Silene. I forget whether Perle des Jardins or Sunset were among them or not. Neither Perle nor Sunset are grown to any great extent about Philadelphia. What has become of Mme. Rene Gerard which figured so prominently a year or two ago for a "bud's" or debutant's bouquet?

In conversation with Eugene Dailedouze a short time ago he stated that his firm, Dailedouze Brothers, has abandoned the idea of disseminating the seedling carnation exhibited by them at Philadelphia before the Pennsylvania Horticultural Society in November, 1901, and which won the Craig cup for the best seedling carnation not yet disseminated, because said variety has developed some very bad traits since that time which entirely precludes the idea of sending it broadcast over the land. In that case, what should become of the cup? Should it not be put up for competition again to be awarded to a variety that would prove good enough to be disseminated? Submitted without comment.

In the annual report of the National Chrysanthemum Society of Great Britain for 1892, there are two "papers" published therein on chrysanthemum sports, one by the Rev. Prof. G. Henslow and the other by Norman Davis, and I feel sure the readers of the AMERICAN FLORIST will be glad to welcome the facts therein contained, thereby adding valuable information to the chrysanthemum literature of America, to-wit:

"Chrysanthemum sports may be grouped under the two heads of color

and form. First, with regard to colors. Botanists are pretty well agreed in their belief that yellow was the primitive color of true flowers which were first evolved in the missing links between gymnosperms, i. e., firs and their allies, and angiosperms, which include all other flowering plants. When, therefore, a colored or white chrysanthemum sports to yellow, which is frequently the case, it may be regarded as a reversion to the typical or original color indicated by the name chrysanthemum, or golden-flower. Hence it is not surprising to find such reversions to be common; but Mr. Davis remarks that a yellow never sports to white."

We do know that the white Timothy Eaton has sported to yellow in more than one place, so also W. H. Chadwick has likewise been guilty of sporting to yellow, namely, Eclipse, with Grove P. Rawson, certificated in 1898, and the present year certificated as Golden Chadwick, exhibited by Vaughan's Seed Store. It is more than gratifying to note that the AMERICAN FLORIST editorially asked in the last issue, "What is the difference between Yellow Chadwick and Eclipse chrysanthemums?" That is the correct spirit and it is to be commended. These sports need watching. The variety Chadwick, though considered in the white class, has some delicate pink markings through its petals, thus giving it a blush tint, has sported to a much darker shade and a different form, but our expert chrysanthemum friend, Elmer D. Smith, can produce data to prove that this variety is quite prone to vary through a difference of the time of propagation, time of planting and time when the bud is taken.

Now, as to form, Prof. Henslow goes on to say: "Besides the color, the form of the flower may be more or less completely altered in the sport. For example, Mr. Maries, of Lytham, met with a case in which a sport appeared on Souree d'Or, half the flower head consisting of spreading, flat, canary-yellow-colored ray florets, while the other half of the flower head was composed of recurved, dark golden-bronze florets with revolute edges."

Another illustration. Mr. Molyneux speaks of George Glenny (itself a yellow sport from the white incurved Mrs. Rundle) sporting to a true reflexed type of the same color, in the garden of Mr. Horril, at Havant. This variety is known as Mrs. Horril. Again, a true anemone sport occurred from the reflexed variety King of Crimson, and called Mrs. R. A. Mudie.

Mr. Gallier, of Edgbaston, records how "a completely tasselled Japanese variety, with pale pink or flesh-colored florets, which were long, narrow and very full, arose as a sport from the fine incurved pink, show variety, Miss Mary Morgan."

The above extracts, will, I feel sure, set at rest any further doubts as to the inclination of sports to change the form of petals and flower in addition to the color so long recognized. Hitherto only a change in color of flower was looked for in a sport, now we have abundant proof that change in form also takes place. E. L.

LOOMIS, CAL.—The California Carnation Company expects to root not far from a million carnation cuttings in 1903. They are planning to establish a branch somewhere near Chicago.

A Valuable Adiantum.

The fern depicted in the accompanying illustration is undoubtedly one of the finest productions of recent years for florists' cut flower trade. It is said to have originated in the greenhouses of Peter Crowe, at Utica, N. Y., where some thirteen years ago it appeared among a lot of *Adiantum cuneatum* of the ordinary type, the stock of which had been obtained from Alex. Montgomery, Natick, Mass., seven years previous. During the interim the fern has been locally known as *Adiantum Bardii*, but Mr. Crowe proposes to give it his own name hereafter. As shown in the illustration, the fronds grow to a height of two feet and upwards. They ripen very quickly and keep well and the plant has given satisfaction grown in the dwelling house. During the time it has been growing with Mr. Crowe, he states that it has never produced any seedlings, although the fronds appear covered with spores. He cuts heavily for the New York market, where the demand for the fronds is very great.

A Mixed Border.

The illustration given herewith shows an excellent manner of obscuring the view of a vegetable garden and at the same time giving a brilliant and always interesting aspect to a garden walk. The back row in the border is of tall growing cannas, such as Florence Vaughan, Chas. Henderson, Kate Gray, Italia, Austria and Crimson Bedder. Next in front of the cannas come *Salvia Bonfire*, *Pennisetum Ruppellii* and *Abutilon Souvenir de Bonn* planted in masses. *Phytolacca variegata*, *Centaurea gymnocarpa*, *acalypha*, *irises*, *archyranthus* and *geraniums* in variety comprise the third group, while the immediate foreground is made up of low growing subjects such as *Ageratum Blanche* and *Blue Perfection*, *Begonias Vernon* and *Erfordii*, *Zinnia Haageana*, *Centaurea candidissima* and sweet alyssum. Abundant watering and constant trimming, weeding and so forth are of course indispensable and all these details are carefully followed up by Mr. Wengert, the gardener at the estate of Selmar Hess, Seabright, N. J., where the photograph reproduced was taken and which at all seasons of the year is a good example of the skill of a painstaking and careful gardener.

The *pennisetum* above mentioned is worthy of more general cultivation. Seed may be sown in January, in shallow boxes, transplanted into 2-inch pots and planted out of doors in May.

Christmas Plants and Packing.

The holiday season is not only a season of profit to the plant grower, but is also a time of much anxiety, for with the delays in growth and maturing of various plants that may be caused by unfavorable weather, the difficulties in the way of transportation and the risks from severe weather while the plants are in transit, it seems no wonder that there are an abnormal number of gray heads among our ranks.

But these are matters of detail that present themselves every season, and we ought therefore to become quite used to them and also to make some preparation in advance. Owing also to the great rush of business with which the express companies are deluged at this time it is best to ship all orders just as early as possible, and to pack everything as



A VALUABLE ADIANTUM, GROWN BY PETER CROWE, UTICA, N. Y.



MIXED BORDER AT SELMAR HESS ESTATE, SEABRIGHT, N. J. A. J. WENGERTER, GARDENER.

securely as lumber and nails will allow, for one must admit that the expressman has not much time to be careful under such conditions.

The past autumn has been an unusually favorable one for plant shipments, there having been scarcely any cold weather before December 1, but from this time forward the transportation of tender stock becomes very risky business, and one can hardly be too cautious in the matter of packing, even though it does add quite a percentage to the expense account. Flowering plants are especially risky subjects to ship, for a slight chill will often make the flowers drop, even though the plant itself may not show much injury.

One of the first requisites in packing a plant in flower is to have it firmly tied to a stiff stake. A bamboo is one of the lightest and strongest stakes for this purpose, and where the plant is likely to rub much against the stake the latter should be wrapped with a strip of tissue paper. Large sheets of waxed paper are the best to use for the first wrap, over the flowers of an azalea for instance, the paper being drawn in and tied to the stake at top and bottom.

If the weather is very cold and the plants are to be shipped to a distance, it then becomes necessary to cover the waxed paper with a layer of cotton wadding, and this in turn with more paper, the pots also being well wrapped in excelsior and paper. It is also a good practice to allow the stakes to project a few inches above the top of the plant so that when they are cleated into the box these stakes may rest on a strip that has

been nailed across the center of the box, and to which the stakes should be firmly tied, thus preventing the tops of the plants from threshing around in the box under rough handling.

For express shipments, and no other way is safe at this season, all boxes should be made as light as they reasonably can be, with due regard for their strength, and they should also be made large enough to allow for an abundance of packing material in addition to the lining of paper felt that forms a great protection to the contents.

The plants having been thoroughly wrapped with several layers of paper, or paper and cotton, the interior of the box completely surrounded with excelsior and felt paper, and the cover tightly nailed down, we have a package that will be reasonably secure in cold weather, unless it may be one of those exasperating cases that appear from time to time in the experience of every large shipper, where the thoughtful express agent leaves such a package out on the platform for a few hours at some junction point in order that it may be ready for the next train.

The plants in fruit that are included among the Christmas stock, and of which the ardisias, oranges and solanums are the most popular examples, need packing in much the same manner as the flowering plants, one of the most important matters being the proper staking and tying of these plants to prevent the fruit from being shaken off in transit.

When any plants are received from a distance in frosty weather it is much the safer plan to open the packages in a cool

place, for example in a temperature of 40° to 45°, and then thaw them out gradually if any show signs of freezing, at the same time protecting the plants from the light until all are gradually warmed. By taking these precautions it is often possible to save the plants even though they have been slightly frost-bitten.

Foliage plants are generally easier to pack than those in flower, for in most instances the leaves may be drawn up and readily bound in place with stripes of paper. With many palms it is best to draw up the young leaf in the center first and, after covering that with paper, bring up the remaining leaves around it and then cover the entire plant with several layers of paper, but if all the leaves happen to be fully developed it is not necessary to make an extra wrapping for the center.

In all cases one should be careful to cover the entire plant thoroughly from top to bottom, for it is not much of a protection to put a lot of paper over the leaves and then to leave a portion of the stem uncovered, the latter being almost equally susceptible to the cold.

There are occasionally other tender foliage plants to be packed for shipment, and with some of the broad-leaved ficus, aloecasias, dieffenbachias and other easily injured subjects, the old-fashioned method of putting a light stake in each side of the pot with a cross stick tied to the tops of the other two, in order to keep them apart, is still a practical way of making a protective framework between which the leaves of the plant may be tied. With such a framework it is comparatively easy to tie the leaves perfectly flat by

means of long strips of tissue paper, after which the whole plant may be covered with heavier paper, or paper and cotton, and ultimately cleated into a well lined box.

One of the most important things to be remembered in the packing of all plants is to tie them up tight enough to allow of but very little movement after they are boxed up. But at the same time avoid cutting or creasing the foliage by careless tying, as such an injury is liable to become more prominent after the plants have been unpacked for a time.

The question of a scale of charges for boxes and packing seems to have become quiescent again, though many seem to think it would be a proper step for the trade to take, but like many other reforms it seems as though most people would prefer to have the other fellow reform first. W. H. TAPLIN.

WITH THE GROWERS.

GEO. M. KELLOGG, PLEASANT HILL, MO.

The establishment of Geo. M. Kellogg, at Pleasant Hill, is one of the largest greenhouse plants west of Chicago and comprises over 250,000 feet of glass. Built on a gentle slope to the south and in the most modern style, with good soil, it affords the most favorable conditions for the production of a first-class quality of cut flowers. All the leading varieties of roses and carnations are grown and an extensive shipping trade in cut flowers is carried on throughout the western states, about one-half the product being wholesaled in this way. The balance is disposed of in Kansas City. Only a few pot plants are handled. *Asparagus plumosus* is grown quite extensively; 125,000 bulbs of various kinds are grown. The *Harrisii* are looking extra fine; not much indication of disease. Paper White narcissi are grown in large quantities and pay more per square foot than any other variety of bulb grown.

Several 300-foot houses are planted to Golden Gate rose and are looking remarkably well; some are in their fourth year. The same may be said of Bride and Bridesmaid. Heretofore it has been customary to rest these two later varieties during the summer. This rule was reversed this season and the plants kept moving right along. The plan has proven so satisfactory and the plants have given such good results that this method will be adopted altogether hereafter. The plants certainly look strong and vigorous. Perle, Sunrise and Ivory are grown in about equal proportions and are healthy and strong, with plenty

of buds in sight. Liberty is also grown, with not very satisfactory results, but Mr. Kellogg avers he will stick to it until success crowns his efforts. Four houses are planted to Meteor and the plants promise to render a good account of themselves.

Four large Beauty houses came in for special attention. Not many flowers are being cut from them at the present time but the outlook for a large cut about the holidays is very encouraging. The plants are all in solid beds and are remarkable for their strong and healthy growth, some plants having as many as twelve strong canes, and all showing indications of strong breaks from the bottom.

Carnations occupy eight houses 250 feet long. All the leading varieties are grown and are in prime condition, clean and healthy, with a splendid crop of buds and bloom on. The old variety Day-break is done here in fine shape.

A number of houses are devoted to violet culture and look in fairly good shape.

Osage orange is used for posts in the construction of the houses, and has proven superior for lasting qualities to any other. The glass is all butted. Mr. Kellogg thinks the houses are more easily heated when glazed in this manner.

Considerable difficulty was experienced last year with the water question. During the drought it was necessary to lay over two miles of pipe to obtain sufficient water for the houses. Mr. Kellogg has overcome that difficulty effectually this year by filling in a ravine and creating a reservoir of water twelve acres in extent, with an average depth of twenty-eight feet. He also constructed a new roadway over a mile in length at a cost of over \$6,000. When any improvement is needed on this place cost is a secondary consideration.

The total extent of the place is 120 acres, about two-thirds being farmed. When visiting this place one is impressed with the enterprising manner in which it is conducted. Echo.

Notes on Orchid Growing.

ODONTOGLOSSUMS.

Odontoglossums revelled in the fine, cool, moist summer we experienced this year and, could we but be certain of two or three more years free from abnormally high temperatures, such as were recorded in 1901, we could with some degree of confidence feel an ability to produce plants which would compare favorably with those seen in European collections.

It is somewhat disheartening to find the plants lose in one or two forrid weeks what has taken as many years to build up, but aside from these discouragements there is no question but that *odontoglossums* can be fairly well grown in this part of America if given the right sort of structure and proper treatment. A north house and some shade in summer are necessary. From September to March the plants are benefited by having all possible sunlight; the leaves may be lighter in color than where shading is used, but they will be much stiffer in texture and the plants will flower much more satisfactorily.

Some orchid cultivators try a few of these plants in too warm houses and, of course, having no success with them, discard them and assert that they cannot be grown in the United States. Their culture is certainly more difficult than that of cattleyas and lalias, which, with *cypripediums*, form the staple of most orchid collections, but some growers have very fair success with them and there is no reason why others cannot do likewise. *Odontoglossums* are by long odds the most chaste of all orchids and a well-grown and flowered plant of *O. crispum* is a more striking evidence of cultural skill than any huge mass of cattleyas or lalias. Furthermore, no collection can be called complete with *odontoglossums* omitted; as well might we strike ericas from the list of hard-wooded flowering greenhouse plants and expect to have a representative collection.

In the autumn months we give our plants a night temperature of 45° to 50° and keep them quite moist at the root. Plenty of bottom and top ventilation is necessary. There are few nights in the year when some side ventilation, in the walls below the benches, cannot be given. The plants seem to do well in either pots or baskets; if anything, we prefer the latter. In a compost of chopped fern root, leaves and sphagnum moss, if the moss can be kept growing on the surface of the pots or baskets, it may be taken as a good sign. In England leaf mould appears to be the popular potting compost. We have difficulty in securing the right quality of leaf mould here, but half rotted leaves with a little fern root added seems to suit the plants, while some have done well in pure leaves. Much depends on careful watering. We have no time to give special treatment in this respect, always using the hose.

Of course the king of *odontoglossums* is *O. crispum*, and if only one variety is to be grown this is the sort to have. There are a host of named forms of this



VIEW IN A ROSE HOUSE AT THE ESTABLISHMENT OF GEORGE M. KELLOGG, PLEASANT HILL, MO.



GREENHOUSE ESTABLISHMENT OF GEORGE M. KELLOGG, AT PLEASANT HILL, MO.

popular orchid. Some of the best known are *virginale*, *Ruckerianum*, *guttatum*, *reginae sulphureum*, *Veitchianum* and *fastuosum*. Some of the large flowered and heavily spotted forms are very valuable and fetch higher prices than any other orchids. Other *odontoglossums* worthy of culture in the cold house are *O. Andersonianum*, a natural hybrid between *crispum* and *gloriosum*; *O. cordatum*, *O. Hallii*, *O. Pescatorei* (like *crispum*, a New Grenadan species), *O. luteo-purpureum*, *O. Uro-Skinneri*, *O. Rossi majus* and *O. triumphans*. The following varieties prefer a temperature 5° higher in winter and should be given the warm end of the house; they should also be kept drier at the root when growth is completed until flower spikes show: *O. cirrhosum*, *citrosium*, *pulchellum majus*, *Edwardi* and *Kramerii*. The well-known Guatemalan species *O. grande*, better known as the "baby orchid" is of comparatively easy culture and is one of the best fall flowering orchids grown; it does well in shallow pans hung near the roof of the cold house.

COELOGYNES.

Coeogyne cristata and its varieties are very useful florists' orchids and of easy culture, growing and flowering satisfactorily in almost any house where other plants will thrive. Plants grown in frames in the open air we find made up their bulbs quicker and showed flower spikes earlier than those grown in the house. With these, again, too much summer shade is a great mistake; these grown in a strong light flower far better than the dark green plants produced in shade. These plants do not take kindly to forcing; a night temperature of 55° to 58° is ample in the fall. We find that the varieties *C. cristata alba* and *C. cristata Lemoniana* last much better cut than the type. As all are of equally easy culture this point is worth considering by cut flower growers. The principal objection raised to *C. cristata* has been that it is not a good keeper in water. This is very true, but we find the other two forms named keep thrice as long. There would appear to be some shy blooming varieties of this *coeogyne*. As a rule the round-bulbed varieties flower sparsely as compared with the long-bulbed ones.

LÆLIA ELEGANS.

Lælia elegans is one of the most magnificent of the Brazilian summer flowering orchids. It is not a plentiful orchid in cultivation and as it is practically extinct in its native habitat it is likely to always remain somewhat high priced.

The sepals and petals in the various forms are either white, rose, rosy purple or carmine, lip deep rich purple or crimson and very broad. There are some striking forms of this magnificent *lælia*, some of the finest being *Schilleriana*, *Littleana*, *Lindeni*, *Turnerii*, *Paraleuchos*, *Statteriana prasiata* and *Marlboroughiana*. As a rule this *lælia* carries four to six flowers on an erect scape; one of our plants of *L. elegans Lindeni* this season carried a scape with eighteen flowers. This beautiful *lælia* succeeds best under pot culture and, being a long and strong-bulbed variety, quite large pots are required for specimen plants. A light position in the cattleya house with compost and general treatment similar to cattleyas and other robust growing *lælias* suits it.

DENDROBIUMS.

Dendrobium nobile and its varieties, with many of the hybrids, should have a rather cool, dry and airy structure, raised well up to the light, in which to thoroughly ripen the bulbs. The past summer was not so favorable as usual for ripening the bulbs on *dendrobiums*, *lælias* and *cattleyas*, so it was well to give the plants quite strong light in the autumn to assist the proper maturing of the bulbs. Some of the *dendrobiums*, such as *Wardianum*, *splendidissima*, *Ainsworthii*, *dulce*, *chrysodiscus* and some forms of *nobile* had the flower nodes showing quite prominently on the pseudo-bulbs. A spraying on bright afternoons helps to swell out the nodes, but the plants should be kept dry at the root even to the extent of partial shriveling of the pseudo-bulbs, to secure thorough ripening and satisfactory flowering.

Dendrobiums are less gorgeous than *cattleyas*, but a well flowered collection is more pleasing and satisfying than one of *cattleyas*, their lasting qualities are much better and we have noticed that visitors who were impressed momentarily by a glare of *cattleyas* found keener delight in inspecting a collection of *dendrobiums*. As a rule *dendrobiums* require plenty of heat and moisture while making their growths, a small, steamy house suiting them to a nicety. After the resting period and when it is evident the nodes will produce flowers and not growth, more warmth and moisture can be given. *D. nobile*, although one of the oldest orchids grown, is still one of the best and a specimen plant of it will beat any *cattleya* or *lælia* in competition. Some of the best forms of *D. nobile* are *nobilis*, *Amesiae*, *Murthirianum*, *vir-*

ginale, *Sanderianum*, *Backhouseana*, *Arnoldianum*, *Burfordense* and *Wallachianum rubrum*. A few of the finest hybrids are *D. Cybele*, *chrysodiscus*, *euryalus*, *Edithæ*, *dulce*, *Ainsworthii*, *Amesiae grandiflora*, *Schneiderianum* and *Luna*.

The two most satisfactory florists' fall flowering *dendrobiums* are *D. Phalaenopsis Schröderiana* and *D. formosum giganteum*. Both require warm treatment to do well. *D. Wardianum* is perhaps the most gorgeous of all *dendrobiums*, flowering early in the new year. Fresh importations are necessary of this, as it seems to deteriorate after two or three years' culture. It is an inexpensive and popular sort. Among the numerous other *dendrobiums* grown, a few of the best, worthy of culture in any collection, are *D. Dalhousianum*, *thyrsiflorum*, *chrysotoxum*, *Devonianum*, *Pierardi*, *fimbriatum oculatum*, *Falconeri*, *bigibum*, *crassinode*, *densiflorum* and *Farmeri*. The foregoing varieties will give a succession of bloom throughout the year.

MILTONIA VEXILLARIA.

Miltonia vexillaria is one of the most beautiful of summer flowering orchids, which is, however, rarely met with in good condition in collections. It succeeds well grown in the *odontoglossum* house during the hot summer months, but in autumn is better moved to a slightly warmer house. We placed our plants in a house where *coeologynes* are grown, with a night temperature of 55°, where they are well up to the light, yet not exposed to strong sunlight, and this position suits them. A surfacing of live sphagnum was given and from then on a lessening supply of water will be in order until spring, when the new growths and flower spikes appear almost simultaneously. Thrips are very partial to *miltonias*, more especially during the summer months; dipping or sponging with tobacco water is the best preventive. Nothing can exceed the grace and beauty of these orchids, either grouped separately or with other varieties. There are some beautiful forms of *M. vexillaria*. Some of the most handsome are *Fairy Queen*, pure white; *H. E. Milner*, rubella; *Joseph Godseff*, *Amesiana* and *Augusta Victoria*. From three to four flowers are usually seen on a spike, but strong plants will produce spikes carrying double that number. *Miltonia vexillaria* grows best in pots in a compost of fern fiber and sphagnum, we tried some in leaf mould last season, but they did not take kindly to it.

W. N. CRAIG.

ROSES.

THE MAKING OF CUTTINGS.

The time is now drawing near when we shall have to do our propagating. The rose cuttings will root very easily from now until the sun again becomes stronger and, of course, if your stock is struck at a time when root action is easily induced the plants will be the better for it. You will also want to have your stock for next spring's planting composed of large, strong plants, and in order to secure this they should be from early cuttings, which have been shifted several times before planting.

Although the propagation of roses is not a very difficult matter, it nevertheless requires careful attention. Your propagating bench should be so arranged that you will be able to supply shade, but I do not approve of shading by staining the glass, as in this way you are apt to allow the cuttings to become too soft. You should only have the cuttings shaded when the sun would shine on them, and as soon as the sun is off the shade should be removed. As soon as the cuttings have formed a callus and the roots commence to appear, the shade should be kept off altogether, thereby assuring strong stock.

The cutting bench should be so arranged that the temperature of the sand may be held up to 60°, which will induce root action quickly. Although the cuttings will root quicker with a still higher sand temperature, I should not advise this course, as you will be liable to make the cuttings soft and then when you pot them you will be likely to lose a great many.

The outside temperature for your cuttings should be about 56°, the main thing to be looked out for and avoided being sudden changes. It is an easy matter to keep the sand warmer than the outside temperature if a strip of cloth be nailed along the front of the bench, thereby holding the heat underneath.

As soon as the cuttings are rooted they should be potted. They should not be allowed to remain in the sand at all after they are rooted, as they are only weakened thereby. When the cuttings

are first placed in the sand they should be kept quite wet, until they have a callus; after this the water should be gradually withheld. The main point to work for now is to harden them. Remove the shade gradually until they are able to stand the sun without wilting. After potting, shade for a few days again and then remove the shade altogether, when they should be in a growing condition.

R. I.

CARNATIONS.

AS TO CARNATION DORA.

The carnation, Dora, as advertised by me, has for some unknown reason failed to come up to the standard for keeping the past month and I feel that, while it is steadily improving, it is not, as it now stands, what I felt it was. All other points are above the average, but without keeping qualities a flower is worthless. Last winter Mr. Muth, of S. S. Pennock, reported that they used it in filling orders in Florida and it carried well. I will root but few more cuttings of it than I wish to use myself, for I shall try it again, but I will furnish pips if desired as advertised. Marion is proving all I claimed for it, an improvement over Hill, business from early to late and does not burst its calyx.

ISAAC A. PASSMORE.

FORCING AND FEEDING.

ED. AM. FLORIST:—Regarding the article on Christmas forcing of carnations, over the signature "J." in your last issue, such advice is calculated to do a vast amount of harm. There may be a few varieties, under exceptional conditions, which will go through a week in the latter part of December at a night temperature of 60° without lasting injury, but for the average grower who has a house of carnations in good condition and producing good blooms, the raising of the night temperature 10° above normal during this season can only be considered suicidal. It is questionable whether the increased cut will make up in money value for the damage to the quality, even

for the week in question, while the damage to the plants and consequent decrease, both in quality and quantity, of the subsequent crop, is often appalling.

Complaints are yearly made by wholesalers everywhere, of what is called the salting or pickling of stock, but I believe that a large part of the stock that is classed as "pickled," is simply the flabby, flimsy, stemless rubbish produced by "J.'s" forcing process.

Although, practically, "J." admits that early feeding is wrong, he in effect advises it. The man who first, last, and all the time "consults the health of his plants" is the man who comes out with the best bank balance at the end of the year.

The writer confesses freely, that often in the past he has sinned, both in the matter of heat and feed, but he has repented in sack cloth and ashes.

The whist maxim, "When in doubt take the trick," won't do in carnation culture. A large sign on the door of the greenhouse reading, "When in doubt don't do it" will save many and many a dollar. The writer is firmly convinced that nine times out of ten the house which receives absolutely no feed until after January 1, and in which the temperature has been carefully maintained at normal, will show, for the year, greater cash returns than would the same house in which "J.'s" advice had been followed, even if not to the extent recommended by him.

W. N. RUDD.

CHRYSANTHEMUMS.

SOME NEW VARIETIES.

The yellow sport of Timothy Eaton which the E. G. Hill Company exhibited at Boston as Dr. Oronbyatekah, scoring 91 points, is similar to the parent in every quality except color. It is a fine shade of light yellow.

Algoma is a light pink incurved, the style of The Queen. The form and habit are described as all that could be desired of a commercial variety. It is one of Nathan Smith & Son's set of certificated seedlings.

Mrs. Harry V. Casey is the latest novelty of Wm. Paul Binder, Rider, Md., who has introduced many which are now standard sorts, including Willowbrook, Lady Harriett, Robert Halliday and others. The Mrs. Casey is a clear pink, incurved Japanese, of fine stem and foliage. The flowers are large and do not show a center. The plant grows about three or three and one-half feet tall and the blooms are ready early in November. It has been shown many times and been the subject of much favorable comment.

ECLIPSE AND GOLDEN CHADWICK.

Answering the inquiry which appeared in the issue for December 6, "What is the difference between Golden Chadwick and Eclipse chrysanthemums," will say that when the Eclipse was sent out in 1898 we bought a number of plants, thinking it would be a good thing if it was a true yellow Chadwick. After giving it a thorough trial we found that the foliage was identical to W. H. Chadwick and the color a light lemon shade. But a large percentage of the flowers came reflexed, with tubular petals, and smaller as to depth and substance than the W. H. Chadwick, in fact, inferior to the white one in every respect.

The Golden Chadwick sported with us two years ago. We have found it to be identical with the white variety in every respect, with the possible exception of



BRIDESMAIDS GROWN BY BENTHEY & CO., AT NEW CASTLE, IND.

(Awarded the Foley upon the best vase of roses at the Chicago Exhibition.)



Yellow Eaton.



Mrs. Harry V. Casey.



Algora.

THREE OF THE SEASON'S CERTIFICATED CHRYSANTHEMUM NOVELTIES.

the flowers coming larger and of more depth, and if anything a handsomer bloom than the parent. The color is also two or three shades darker than the Eclipse, often showing a bronzy tint. The Golden Chadwick has been examined by a number of experts at the flower shows and pronounced far ahead of Eclipse in every respect, in fact you can hardly find a chrysanthemum grower to-day who is growing the Eclipse and almost every one of them is growing W. H. Chadwick on account of its fine form, large flower and habit of growth, and it does not look reasonable that if the Eclipse had proved as good a flower that they would have discontinued growing it.

JAS. S. WILSON.

Oil Versus Coal as Fuel.

In all probability, more has been written about fuel-oil during the past six or twelve months than ever before. But as yet only the outer crust of the subject has been touched. There are so many conditions that must be considered before oil can be accepted as a fuel throughout the world that it will be a long time before coal, and the many other fuels that are now used, will be supplanted by it. But that the change will eventually take place is seemingly beyond question, if we may judge the future by recent years.

Under certain conditions, oil is decidedly cheaper than coal at any price, but under many conditions it is apparently very much more expensive than coal at its normal price. To simplify the subject, it is well to divide it into two general classes, namely, commercial and domestic.

Experience has taught the western states that, both for commercial and domestic uses, oil is vastly cheaper than coal. But it must be remembered that the west uses bituminous coal almost entirely, anthracite coal being so scarce there as to be practically prohibitive.

With bituminous coal, therefore, at an average price of \$8 per ton, it can readily be seen that oil-fuel is greatly superior, in the actual cost as well as in the greater convenience obtained.

Taking the commercial side of the question first, a very interesting array of statistics is encountered. In round figures,

three and one-quarter barrels of crude oil is equal to one ton of soft coal. Placing the price of the petroleum at \$1 per barrel (in many places in California, especially in the Kern river district, the price is often as low as 50 cents per barrel), the cost would be \$3.25, as against \$8 for coal, showing a saving of \$4.75. Now to this saving must be added the greater economy in labor hire. With oil as fuel, one man will accomplish the same amount of work that requires six men when coal is used. Here, therefore, is a saving of five men, at \$2 per day, or an annual saving of \$3,000 in labor. There being no ashes or cinders to dispose of, a considerable amount of money is saved in this respect. It will be seen, therefore, that oil is not only cheaper than coal in its first cost, but it also does away with the many comparatively small expenses that foot up a considerable total annually.

The *United States Journal for Investors*, under date of November 8, is responsible for the following statements:

A Chicago official of the Atchison road writes, with reference to the economies that have been made during the past year by the use of oil as fuel in its locomotives: "On our Gulf division alone the saving being made is at the rate of \$300,000 per annum, and, with the steady increase in the number of locomotives equipped for oil burning, we expect during the coming year to secure an economy on this division alone of over \$500,000."

"For our California lines we have a long-time contract for crude oil with the Kern River companies, at a price considerably below that now quoted for oil. Besides this, the development of our own oil property is progressing satisfactorily, and our savings on the coast lines will be as much or more than that on the Gulf division. The service that has been secured by the use of oil has, for the most part, greatly exceeded our expectations, and it would not surprise me if oil ultimately became the fuel of the entire system."

In this connection it is reported from San Francisco that the Southern Pacific Company has expended \$5,000,000 for the purchase of oil lands, tanks and for the conversion of 500 of its 1,400 locomotives into oil burners, and it is estimated that the saving in fuel expenses for the company will be at the rate of \$150,000 per month, or \$1,800,000 annually. The saving on every 100 miles run by using oil is estimated to range from \$16 to \$20.

After these statements it would seem

hardly necessary to advance further argument in favor of petroleum as fuel. The conservative policies of railroad corporations are so well known that the fact of their having become so convinced of the superiority of any one fuel that they are taking steps to install it exclusively on their systems possibly precludes all further arguments. But, when their decision is corroborated by the steamship lines that ply on both the Atlantic and Pacific oceans, it would seem that all arguments against this article of fuel must cease. Even the United States navy, acting under the order of Admiral Melville, is installing oil-burners in many of its boats, in the face of the fact that some of the subordinate officers, who have been associated with the commission that has been conducting a series of experiments with oil, were not very much in favor of the change.

Thus it will be seen that, commercially, in the east as well as in the west, where soft coal is used to generate power, fuel-oil is cheaper and better. Naturally the saving is not as great in the east, because soft coal here is sold at about \$3 per ton. But the incidental savings are just as large, besides giving greater and quicker control of the power. It has been proven that a given pressure of steam can be raised by using oil for fuel in one-third of the time that soft coal requires, as well as making it possible to keep an absolutely even pressure.

This in itself is a vital point. Oil is so easily managed as a heat producer that it is possible to increase or decrease the pressure of steam at will, the same as with gas. With coal, however, this is impossible, for when combustion has taken place its heating power cannot be quickly reduced. As soon as oil is ignited, its full heat is obtained, but coal requires considerable time to develop its heat.

When the domestic side of the question is taken up, however, a somewhat different state of affairs is seen. For domestic purposes the cheap crude oil is impossible, for many reasons. Oil in its crude state is such a thick mass that it is necessary to break it up into small particles in order to mix it with the air that is necessary to complete combustion. The finer the particles the better are the results

obtained, as the necessary amount of oxygen is more easily and completely combined with it.

On October 26 the New York *Sun* published the following excellent article:

The different forms and patents of burners for use with coarse crude or fuel-oil are an army in numbers. But they may nearly all be classed as atomizers, and the chief difference between them is in the medium used for atomization.

There are three principal atomizing agents in use—steam, compressed air and low pressure air at about two pounds pressure. Of these, the atomizer using low pressure air seems the most popular and economical.

By atomizing is meant the breaking up of the oil into atoms, and the principle of this performance is the same as is found in the familiar spraying devices for the application of medicinal liquids to the nose and throat.

By thus dividing the oil into extreme fineness, it is possible to mix much more advantageously with the air necessary to complete combustion. Each part of carbon must have two parts of oxygen. It is a pretty difficult matter with any fuel to select two particles of oxygen and bring them in contact with each particle of carbon. Thus it is, in order that combustion be as smokeless as possible, we have to introduce to the furnace an extra large amount of air.

In the case of oil it will be seen from the above that the finer we can divide the oil, and the more widely we can separate it, the easier will each particle find its two particles of oxygen in the air which is introduced and, therefore, the less quantity of cold or comparatively cold air will be introduced into the furnace. This explains the action of the atomizer.

In addition to a good design of burner, the fire-box must also have careful thought and design, in order to place the incoming air where it will do the greatest amount of good with the least quantity.

It will be seen, therefore, that an apparatus of such a comparatively com-

the amount of oil that such a burner would consume per hour, the figures would show a larger amount than anthracite coal would cost. But such a reckoning is unfair, as well as almost impossible. Assume that a burner of sufficient size to heat a good-sized house consumed three-fourths of a gallon of oil an hour, this would be eighteen gallons a day, at 4 cents per gallon, or \$21.60 a month. If the same house required two tons a month of hard coal to heat it, at \$7.50 per ton, it would show that oil is \$6.60 a month more expensive. But such would not be the case. The full amount of heat being obtained immediately upon the lighting of the oil, the burner is not kept in operation every hour of the twenty-four; in fact, by reason of the above condition, the burner is kept lighted hardly more than ten hours a day, and a goodly portion of this time hardly more than one-half of its capacity is used. Hence it is found that about seven and one-half gallons of fuel is used, costing \$9 per month. This is as near as it can be approximately reckoned on paper, but actual experience proves that it rarely costs more than \$6 or \$7 a month. Adding the convenience of being without ashes or dirt, leaving out all question of expense, oil as a household fuel becomes a decidedly popular, important factor.

Here again, the western states have a big advantage over the east, for their

supply of oil is assured, and is readily obtained at low prices, whereas here we must depend upon the Texas and Louisiana fields for our supply. It is likely to be some little time, therefore, before a good distillate is sold in the New York market direct to the consumers at a cost of about 4 cents per gallon.

It is true that ordinary kerosene oil can be used, but it is by far too expensive, nor does it contain the number of heat units that the distillate does.

The public mind is now thoroughly awakened to the enormous possibilities of oil-fuel, and the progress that will be made along this line during the coming years will be very much greater than during the past years. The recent coal strike has acted as a great stimulant, besides proving many heretofore unknown facts, that the business instincts of the people will consider thoroughly.

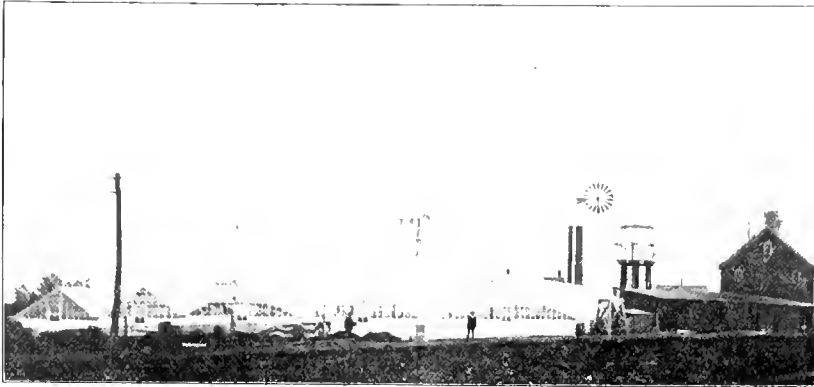
As was said in the beginning of this article, oil can be made to appear as being more expensive than coal, but when the manner of working and using oil is investigated these assertions are found to be wrong.

Several have said that crude oil-fuel burns out the machinery, etc., but this also has been proven false. We refer once more to our esteemed contemporary, the *United States Journal for Investors*, of November 8:

In reporting on the effect of petroleum on boilers when used as fuel, F. C. Bitgood, the chief boiler inspector for the southern district of the Hartford Steam Boiler Inspection and Insurance Company, states that when oil-fuel was first taken up the inspectors were cautioned to exercise special vigilance, to the end that its effect on the boilers might be ascertained as quickly as possible. Thus far the scrutiny has failed to reveal any deleterious effect where proper care was exercised in installing the oil-burning apparatus and in its operation afterward.

It was also found that, by reason of too great a concentration of the oil flame upon certain parts tubes were bent and shell plates overheated, a danger easily overcome. Some apprehension was felt that the amount of sulphur contained in the crude oil might be sufficient to cause more rapid deterioration from pitting and corrosion than has been experienced in coal. This fear has been so far proved groundless, no extraordinary pitting of tubes and shells having been noted since the introduction of oil as fuel. This may be accounted for by the fact that the amount of sulphur liberat d per thousand heat units is less with oil than with coal.

The wear and tear upon the boiler structure is probably less than with coal. Much of this wear and tear with coal is due to strains produced by the sudden frequent rushes of cold air against the hot plates and heads while the surface doors are open for firing, resulting of en in a leakage at the seams and ends of the tubes, and small fractures of the boiler plates. These are almost



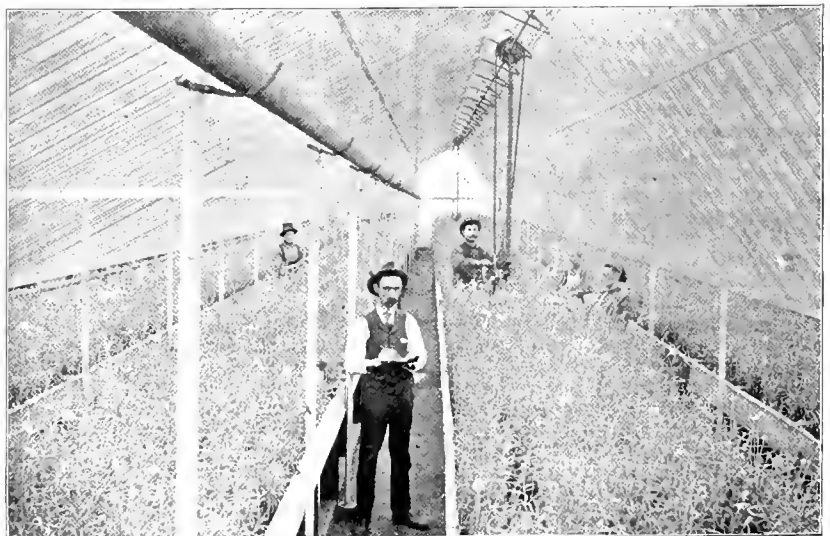
ESTABLISHMENT OF JOHN BAUSCHER, JR., FREEPORT, ILL.

licated arrangement is unsuited for use in the ordinary household, unless a man is engaged especially to run it. And, again, it becomes a question as to whether the insurance companies would permit such an apparatus to be installed, for no power being generated that can be used for the spraying purpose, a retort or something of a like nature must be used to furnish the spraying force. A very decided element of danger enters thereby to which the insurance companies, as well as the householder himself, objects.

Consequently, a distillate must be used. A distillate is a crude oil, from which the base and all hazardous substances, such as naphtha, gasoline, etc., have been removed, leaving a volatile fluid of great heat-producing power.

By the use of this distillate, the necessity of spraying is obliterated, making possible a burner that is simple in construction as well as easy of manipulation.

But a refinery product, such as distillate, is from three to four times more expensive than the crude petroleum. By reckoning the twenty-four hours to the day and the thirty days of the month by



CARNATION HOUSE OF JOHN BAUSCHER, JR., FREEPORT, ILL.



HOUSE OF CARNATION ENCHANTRESS PHOTOGRAPHED OCTOBER 25, AT THE J. D. THOMPSON CARNATION CO., JOLIET, ILL.

entirely avoided by using oil-fuel; the doors are never opened, and the temperature remaining practically even, there are no injurious contractions. In some cases where constant trouble has been experienced with coal from these causes, there was a marked improvement when oil was introduced; the annoying leakages and fractures ceased, thereby lessening repair bills and the frequency of stoppages.

Thus it will be seen that, although its detractors do all they can to discourage the use of oil for fuel, its superiority is so great that in spite of its traducers it is forging to the front with mighty, unblockable strides.

Some time in the near future a burner will be invented in which the raw crude oil can be utilized, of so simple a design that it may be used in every household. When this is accomplished the cost of fuel for cooking and heating will be reduced to such a low figure that it will be utterly impossible for any other fuel to compete with it.

After the siege of soft coal smoke and dirt, that we are just beginning to emerge from, any fuel that will do away with such monumental annoyances will be welcomed with open arms. Therefore, our eyes having been thoroughly opened to the possibilities of oil-fuel, it simply remains for the proper apparatus to be invented and a slight prejudice to be overcome to place "King Oil" upon the throne that has been occupied so many years by "King Coal."—*American Mining News*.

[In this connection it is worthy of note that John Breitmeyer's Sons, Mount Clemens, Mich., after burning oil successfully for several years, are abandoning their apparatus and tanks to resume the use of coal for heating their greenhouses, as a matter of economy.—Ed.]

LANSING, KAN.—Ben. Fox, formerly of Onaga, Kan., is now located here.

A Successful Illinois Establishment.

John Bauseher, Jr., at Freeport, Ill., has made very extensive improvements in the past two years. He first started in the poultry and vegetable business and about three years ago ventured into the growing of flowers. Since that time he has developed about 48,000 feet of glass and devotes same to the growing of carnations and roses. He has a very large shipping and retail trade. The flower industry has crowded out the vegetable business entirely, and cut the poultry business to about one-half its former size. Mr. Bauseher built a very fine residence the past summer and expects to add extensively to his greenhouses the coming season. C. W. S.

Notes on Christmas Plants.

With the near approach of the holidays it is important at this time to have all our plants for Christmas sales in good growing condition. Different requirements in temperature, moisture, fumigating and so forth must be carefully attended to in detail. In these days of little sunshine of course no shading is required for any of the plants we usually have in bloom at this season of the year.

If you are forcing azaleas they require careful treatment now. A temperature of 70° at night, syringing once or twice a day according to the amount of sunshine we have, with plenty of water at the roots, ought to bring them along quite rapidly now. As the buds begin to swell and show color on the extra early sorts, such as Deutsche Perle, Vervaneana and Simon Mardner, they should be removed to a lower temperature, say 10° less than the forcing temperature. Later, if they show signs of developing too rapidly they may without injury be removed

to a temperature of 50° at night. Keeping them cool a week or two before they are sold will add much to the strength of the plants and materially improve the texture and durability of the flowers, which naturally give better satisfaction to the customer. Syringing must be discontinued when this stage of development is reached. They should at all times have the fullest light and be given plenty of room to allow a free circulation of air between the plants.

Of all the plants for Christmas sales the cyclamen may well be said to head the list. A well-grown plant in a 6-inch to 8-inch pot, with its handsome foliage and mass of blooms makes a most acceptable Christmas plant. Add to this its great keeping quality as a house plant, which makes it safe to recommend to every customer, and we may justly call it the most valuable winter blooming plant for the retail florist. A night temperature of 55°, careful watering, no syringing where the plants are full of bloom, and regular fumigation to keep down aphid are important details that must be observed. It is well to place them on inverted 5 inch or 6-inch pots, bringing them nearer the glass, and permitting a free circulation of air. They must be given plenty of room, so as to permit a symmetrical development of the plants.

The different varieties of primulas, *P. Sinensis*, *P. obovata* and *P. Forbesi*, better known as the baby primrose, require practically the same treatment. A night temperature of 50° will suit them well. The soil should be well drained, allowing the water to pass through freely. Overhead watering should be dispensed with at this time of the year, as it tends to rot the flowers. Fumigating will not hurt the

primulas, but as they are rarely troubled with pests of any kind, it is hardly ever necessary to fumigate them.

Poinsettia pulcherrima is perhaps the most showy of all the Christmas flowering plants. Its large, fiery red bracts, and handsome foliage attract attention everywhere, which makes it a most valuable plant for decorative purposes. But nothing is more unsightly than a poinsettia with its foliage turned yellow, or with no foliage at all, which is something we often see. This defect is usually attributable to one of two things, and sometimes to both: Too low a temperature, which should never be below 60° at night, or impoverishment of the soil, in which case a stimulant in the shape of weak liquid manure will be found beneficial. Syringing must be regularly attended to to keep down mealy bug, and fumigation must not be neglected.

Begonia Gloire de Lorraine, the most valuable addition to the list of winter flowering plants in recent years, is in the height of its glory now. An ordinary rose house temperature will suit it. The soil, which should not be of too heavy texture, must be well drained. This beautiful little plant is sometimes troubled with aphids, but as fumigating discolors the flowers, the better way to fight this pest is to scatter tobacco stems between the pots. Although the *Gloire de Lorraine* is not an ideal house plant by any means, owing to the fact that it does not readily adapt itself to the conditions of the dwelling house, still its great beauty at the time when flowering plants are mostly in demand more than overbalances this defect in the estimation of the average customer. It is mainly on short festival occasions that this little wonder finds the greatest demand. G.

[This contributor's opinion of *Begonia Gloire de Lorraine* seems to be exceptional; it is generally regarded as adapting itself to dwelling room conditions with remarkable facility.—ED.]

Forcing Etherized Plants.

Whether through lack of enterprise, or for some other reason, commercial growers on this side of the Atlantic do not seem to have taken advantage of this new method of hastening and bettering the flowering of forced shrubs. In France, Holland, Belgium and Germany many experiments have been made, not only by professional experimenters, but by commercial growers as well, and the general results of all these experiments indicate that the new method will be of great value commercially in many cases.

The bulk of the work has been done with the lilac, but one can not avoid speculation as to whether it may not be applicable to lily of the valley; in fact one German experiment resulted quite successfully with lily of the valley pips. It seems possible that by this method new pips may be forced for Christmas, and the expensive and risky method of retarding by cold storage be rendered unnecessary. It would be at least worth a careful test on a small scale.

According to *Le Jardin*, Fredrie Harris a large commercial grower, of Hamburg, has used the method with remarkable success with lilac in his establishment. The plants—in full flower and ready to cut December 14—were etherized on November 24, while others etherized December 4, were just opening their flowers. Charles X was the variety grown.

By the use of ether Mr. Harris not only

gained ten days in the forcing process, but states that he secured more than three times the usual number of flowers from each plant, that the blooms were larger and better and the foliage was much more abundant and deeper colored.

The shrubs are etherized in a hermetically sealed box. A large shallow dish is suspended in the upper part of the box, into which the ether is poured by means of a funnel, through a small opening in the top of the box, which is of course immediately closed as soon as the ether is poured in.

The reason for suspending the ether receptacle near the top is that ether fumes are much heavier than air. It should be borne in mind that ether is a highly inflammable substance when in a state of vapor and even a lighted pipe or cigar brought into the vicinity is likely to be disastrous.

About 400 grams of ether are used to a cubic meter of air in the box, for early forcing. By the end of December a much less amount is needed. As the ether fumes are very penetrating and it is not desired to have them reach the roots, the plants should be in quite a dry state and their roots should be well covered with sand.

At the freezing point the ether has no effect, while at 86° the plants are ruined. The proper temperature is from 63° to 66°, dropping to 57° at night. The lilac already referred to remained in the box forty-eight hours, but some varieties required a longer time. After being etherized the shrubs are put into the forcing house and handled as usual.

The Blue Color in Hydrangeas.

Soon after its introduction by Sir J. Banks from China and Japan in 1790, it was noticed that some plants of *Hydrangea Hortensia* produced blue flowers, and of course an explanation was at once required. Almost the first reason given was that of the presence of salt or salt-peter in the soil; this was followed by the oxide of iron theory, and that the loam of some districts enjoyed this indefinable property of producing the blue color; then it was surely peat, turf ashes, and particularly the ashes of the Norway spruce had a turn; applying alum water during the previous year also had a vogue. But to establish either of these theories one vital point was lacking—their application did not "fix" the blue color. Latterly in our own days of exact science, botanical and horticultural authorities have become more cautious, and have chiefly confined themselves to saying by what artificial means this blue color may be produced. And, in fact, the almost universally adopted theory is that it is "something" in the soil.

Quite recently I read in a contemporary of a gardener seriously advancing as proof of this iron in the soil theory, the fact of numbers of bushes growing in the open air producing blue flowers, while plants raised from them and grown under glass only bore pink flowers because there was no iron in the soil in which the pot plant was growing! But by potting some plants in the soil from around one of the blue-flowered hydrangeas, how easily he could have proved or disproved his theory. For my own part, I do not believe that in the generality of cases the nature of the soil has anything to do with this blue color. In these gardens there are growing some enormous bushes which freely produce pink, blue and white flowers on the same plant, and frequently on the same branch—very erratic pro-

ceedings when viewed from the "iron in the soil standpoint."

In my opinion it is above and not below that we must look for a cause which will satisfactorily explain this phenomenon of blue hydrangea flowers. To me it seems to be a question of light, for I have particularly noted that those flowers which open earliest in the season, and consequently when the sunlight is strongest, are always of the normal pink color; while those on the same plant, which expand later are usually blue. And I have found, not only here but elsewhere, that the shrubs growing in shady positions, and facing northwest or due north, in which positions the amount of sunlight must of necessity be small, and the period of flowering late, produce a far greater proportion of blue flowers. It must be borne in mind that the corymbs which appeared first are now, by reason of their weight, hanging down, and in many cases mixed up with the later ones.—A. C. Bartlett in the *Gardeners' Chronicle*.

Chicago.

COLD WEATHER CUTS OFF DEMAND.—NOBODY STIRRING AND STOCK ACCUMULATES.—NOTHING SCARCE THIS WEEK AND AVERAGES GO DOWN.—GOOD PROSPECTS FOR CHRISTMAS.—EXPRESS RATES GO UP FIFTY PER CENT.—FIRES DO DAMAGE.—VARIOUS NOTES.

The week began with the first cold spell of the season and the sudden change to zero weather shut off the buying without working any perceptible decrease in receipts. On Monday there was a fair amount of shipping business, but Tuesday found the market practically dead and Wednesday was very little better. Stock accumulated in all departments and even the choicest material was moved with difficulty where an effort was made to maintain seasonable values. Items which had been in pronounced shortage were above the demand, and all orders have been filled to the buyer's full satisfaction this week. In the last few days business has improved somewhat, but the week will go on record as very unsatisfactory for the producers. Beauties, which have been very much under the demand for several weeks, began to pile up this week for the first time, particularly the shorter lengths. There are varying reports as to the crop conditions. Some growers report their crops now at the height and going off for Christmas, while others think they will be just in their prime for the holidays. Tea roses are showing a decided improvement in quality but the supply has been so heavy this week, as compared with the light business, that the growers can see little profit in the improving grades. Clean-up sales are on record at very low figures. Carnations seem to have held up the best of anything in the market. Receipts are ahead of demand, but the better qualities have continued to realize fair prices, the loss coming in the lower grades, as is always the case. Violets are not coming in particularly heavy but the decreased demand served to ease the market, the prices this week having ranged fully twenty-five per cent under a week ago. However, there is always a lull before the Christmas business. It seems probable that this season will see a larger holiday trade than ever before. The general opinion is that supplies will be comparatively large, but whatever the condition of the crops, if the growers wish to realize the full value of their stock, they must not hold back too much.

It may be all very well to save up something for a holiday, but over-ripe stock is never salable. Prices for several days before Christmas are sure to be up to the highest average and he who holds back his cut beyond December 23 will be the loser. Anything that reaches this market on December 22 and 23 is pretty sure to be well sold, for advance inquiries were never heavier.

The committee of the Wholesalers' Association which was appointed to interview the express companies with reference to the new tariff, finds the condition somewhat different from what was expected. Instead of following the announced programme as to liability for freezing, the companies have put into effect a tariff one and one-half times the regular merchandise rate, to apply on all cut flowers. The general agents interviewed admit that the raise was arbitrary and without due notice, and they assured the committee that they would afford every assistance in the effort which will be made to present the matter to the traffic officials with the view of securing a return to the former rate.

The second meeting of the florists and gardeners was held December 10, at 49 LaSalle street, for the purpose of starting a florists' union. There were forty present, including representatives from parks, cemeteries, private gardens and retail and wholesale commercial growers. The association was given the name of the Chicago Gardeners' and Florists' Union, and a committee of nine was appointed to draft constitution and by-laws to be presented at the next meeting, which will be held at 49 LaSalle street, on the evening of December 17. Representatives of the International Federation of Labor made addresses at the meeting.

On Friday night, December 5, fire destroyed the barn at the greenhouses of Wieter Bros., consuming not only all the wagons, tools and other supplies, but also seven head of the best horses on the place. One team which was lost was bought only a few weeks ago for \$475. There was an insurance which will cover a portion of the loss.

The regular meeting of the Florists' Club was held December 10, but the attendance was not as large as could be desired. However, the enthusiasm and good work of those present made up for the lack of numbers. It is believed that the forthcoming meetings will be of great interest and benefit to the members.

Last Sunday evening fire destroyed the residence and greenhouse of Wm. E. Beaudry, 5411 Woodlawn avenue. Mr. Beaudry and family were awakened only in time to escape from the building in their night clothes. The loss is estimated at \$4,500, covered by insurance.

Albert Fuchs has now taken complete possession of the Retzer place, the disputed claims of the receiver's auctioneer having been adjusted and everything is in business shape again. Mr. Fuchs expects to spend some \$4,000 to make it an A. No. 1 place.

Mrs. C. L. Washburn has been making a brave battle all this week, for she has been very low. Both Mr. Washburn and her father, O. P. Bassett, have been at her bedside constantly at Alma, Mich.

Kennicott Brothers Company are figuring that Christmas will see all the stock required except Beauties and Liberty.

Miss Emmett, who is bookkeeper at Deamud's, is under the weather but expects to be at her desk soon again.

Bassett & Washburn have received

5,000 rooted cuttings of Lillian Pond carnation from S. J. Reuter.

McKellar & Winterson have had very fine poinsettias this week, but one lot was frosted.

Weiland & Risch are cutting Mrs. Lawson in even better shape than usual with them.

Fleischman has had a vase of the new rose Franz Deegen in his window this week.

At E. H. Hunt's they report a very heavy business in the line of holiday supplies.

Walter Kreitling is 40 years old, and it is said that he is a Wurtenburger.

Deamud is still getting in good white chrysanthemums.

Visitors: H. M. Altick, Dayton, Ohio; Myer Heller, New Castle; J. E. Hancock, Philadelphia; Andrew Bather, Clinton, Ia.

New York.

CLUB ELECTS OFFICERS.—TROY THE NEW PRESIDENT.—WANT DUTY TAKEN OFF OF GLASS.—HANDSOME EXHIBITS.—TRADE SOMEWHAT QUIET.—NOTES ON SUPPLIES.—THORNE PLACE IN FIRST CLASS SHAPE.

The meeting of the Florists' Club on Monday evening, December 8, was attended by about forty members, a gratifying number considering the fiercely cold weather prevailing. The election of officers was the principal business. It resulted in the selection of the following ticket: President, J. H. Troy; vice-president, Frank H. Traendly; secretary, John Young; treasurer, C. B. Weathered; trustees, W. F. Sheridan, John Birnie and C. H. Allen. The other nominees for president and for treasurer withdraw their names in favor of the above mentioned candidates for those offices. President-elect Troy, being called upon, expressed his thanks and appreciation of the honor conferred, promising his time and best energies to the service of the club. Frank H. Traendly, John Young, C. B. Weathered, John Birnie and W. F. Sheridan also made remarks appropriate to the occasion. F. Bertanzel contributed, of the premiums won by him at the recent exhibition, \$25 toward the guarantee fund, and this generous action was duly recognized by a vote of thanks from the club. The guarantee fund is being rapidly paid in, already more than one-half of it being in the treasurer's hands. A petition was circulated among the members, to be sent to congress urging a repeal of the duty on greenhouse glass. The club was treated to an oratorical feast on this topic, such as it rarely enjoys, Treasurer Weathered contributing an address both earnest and forcible. It was observed that only one member sat unmoved and unconvinced during his earnest appeal. On the exhibition table was a vase of the Chicago Carnation Company's handsome crimson carnation Harlowarden, to which the award committee gave ninety four points, and Jas. Harshorne, who made the exhibit, was invited to address the club, which he did in a very entertaining manner. Lager & Hurrell also contributed a nice display of orchids. The death of Alex. McLennon being announced, a committee was appointed to prepare resolutions thereon. Four new members were admitted.

Business in the cut flower line is rather quiet and values, as a rule, are unchanged from last week. Notwithstanding the frigid weather, there does not appear to be any shortening up in the supply and as trade has at the same time fallen off its effect has been felt, particularly in the lower grades of roses. The price of

American Beauty shows weakness also, although there are no more in market now than there were a week ago, but they are coming into good crop with some growers and no immediate scarcity is anticipated. Our notes last week on the situation as regards Bride and Bridesmaid roses, violets, and so forth, hold good this week. Lily of the valley is in rather light supply. Orchids are in good demand at prices heretofore quoted, white ones being scarce. Carnations alone seem to have felt the effect of the cold wave and are reduced in quantity but do not yet make any material advance in value. The retailers' windows are brilliant with decorative plants, such as poinsettias, ardisias, solanums, oranges and Lorraine begonias and other evidences of the approaching Christmas season are seen in the holly, ilex and other appropriate material, made into wreaths and bunches in which scarlet ribbon appears in accustomed profusion.

A recent visit to A. L. Thorne's establishment, at Queens, revealed the fact that Mr. Thorne can reasonably count upon a full crop of good roses to be just at its height for the holidays. The big side-hill house, filled with Brides and Bridesmaids, one-year and two-year-old, never looked more promising than now. The carnation houses are, however, fully as interesting to their owner as are the roses. A house of Genevieve Lord and a large number of Cranes will give especially good results for Christmas. Some Scotts are being grown here but it is their last year, as the constitution of this once-popular variety seems to have gone to pieces. Mr. Thorne's cherry-colored seedling, known heretofore as Ballahoo Girl, has been named Le Brun and, although a somewhat small flower, is exceedingly profitable because of its great yield. Lorna and Prosperity are doing well. Norway is somewhat irregular. Manley has developed a peculiar rot in the flowers, evidently of fungous nature. Viola Allen and Floriana are all that could be desired and Cressbrook is doing rather better than expected. White Layde is a stunner. The flowers are of fine form and fragrant and in size they excel Prosperity as grown in the neighboring bench.

Siebrecht & Son's remodeled establishment on Fifth avenue is the best equipped place in the city and considering its location is, on the whole, unrivalled on this continent. In the rear of the spacious store is a conservatory filled with show plants, an elaborate rockery and grotto in the rear. Out of this lead two plant houses stocked with decorative material and connected therewith are ample work-rooms, packing sheds and other conveniences for the carrying on of an immense and rapidly expanding city business.

James King, an up-town florist whose former training in the wholesale district should have equipped him to withstand the wiles of the bunco man, is said to have purchased a few days ago, a bundle of ordinary bricks under the representation that the package contained floor tiles.

Gus Bergman, formerly with John Young, who was compelled by failing health to give up work last year, died on Sunday, December 7, and was buried Tuesday.

The Rosemary Roseries, having greenhouses at Glenbrook, Conn., has opened a retail store on Fifth avenue between Forty-second and Forty-third streets.

John Reimels, of Woodhaven, lost one of his greenhouses by fire on the night of November 27. Loss \$1,000, fully insured.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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10 per cent; 26 times, 20 per cent;
52 times, 30 per cent.

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front pages, regular discounts apply-
ing only to the back pages.

The Advertising Department of the AMERICAN
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and dealers in wares pertaining to those lines *only*.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

DON'T "pickle"; stale stock won't fill
the bill at Christmas prices.

A YEAR'S subscription to this journal
would make a very acceptable Christ-
mas present for a faithful employe.

CUSTOMS officers at Detroit have
recently seized consignments of Dutch
forcing stock because of undervaluation.

FREDERIC W. TAYLOR, of the St. Louis
World's Fair, was a visitor this week
and stated that plans for the horticultu-
ral display are progressing favorably.

GOOD cuts are on for Christmas, but
there is never too much good stock for
the holidays; the weakness is in the lower
grades if in any.

THE course of Isaac A. Passmore in
stating the defect found in one of his new
carnations is worthy of the highest com-
mendation. It is an example which
might well be followed by others.

FIANCEE, Dorner's new carnation
recently purchased by the Chicago Car-
nation Company, is being hard pressed
for exhibition honors by the latter firm's
Harlowarden, which was scored ninety-
four points by the New York Florists'
Club last Monday night, December 8.

Write Your Congressman.

House bill No. 15,373, introduced in
congress, December 1, 1902, by Henry C.
Smith, of Michigan, and referred to the
committee on ways and means, provides
for the removal of the duty on window
glass. Every florist should write his
congressman urging its passage.

Broad and Comprehensive.

ED. AM. FLORIST:—I very gladly enclose
\$1 to renew my subscription to your
valuable paper. Frequently there appears
in it a single article well worth more
than the year's subscription. The broad
way in which your writers handle their
subjects gives me pleasure.

Philadelphia. EDW. JONES.

Express Rates.

At the last moment the express com-
panies reconsidered the matter of double
merchandise rates on cut flowers, with
single rate to apply when the shipper
released the carrier from liability for
freezing. Instead they put out a new
tariff making the rate on all cut flower
shipments one and one-half times the
merchandise rate, taking effect Decem-
ber 10.

Greenhouse Building.

Detroit, Mich.—G. H. Taepke, range of
houses.

Secaucus, N. J.—Otto Grundmann, house
24x150.

Dorchester, Mass.—Mrs. E. S. Whitten,
one house.

Noroton, Conn.—Jas. Raymond, one
house.

Groton, Conn.—M. F. Plant, range of
conservatories.

North Pembroke, N. Y.—Wm. Coniber,
one house.

Hopkinton, Mass.—John S. O'Brien,
range of houses.

The Price of Glass.

Window glass of greenhouse size is now
quoted at from "90 and 5" to "90 and
10" off the list, for immediate shipment,
f. o. b. Chicago. The list on 16x24 A is
\$45.50; B, \$41.50. There is a possibility,
but not a probability, of a lower price.
The jobbers' association has declined the
terms recently proposed by the American
Window Glass Company for supplies for
the next few months and the glass trade,
as a consequence, is in a somewhat
demoralized state. There is, however,
little likelihood of a lower price, for the
manufacturers have wages up to an
unprecedented figure, partly due, no
doubt, to the fact that there are in this
country now a total of not far from
4,000 pots with not over 2,300 opera-
tives available. Naturally, there is com-
petition for help.

The Jeremiades of "Job."

The Ginger Jar man has had his atten-
tion called to the latest effort of "Job,"
which undertakes to defend Messrs.
Smith and O'Mara from the condiments
of the season. The prophet may possess
his soul in patience. The Ginger Jar man
and Messrs. Smith and O'Mara under-
stand each other very well and, more-
over, even if it were not so, these gentle-
men are amply able to take care of them-
selves, either with spade or pen. The
Ginger Jar man may not know as much
about growing plants as W. R. Smith,
but "Job" should reflect that it would be
time enough to call the culprit to account
after he had made such a claim, and not
before.

As for the help that aestheticism is to the
growing of plants—which would "Job"
rather do if he wanted to hire a man to
grow plants and he had the choice of
Oscar Wilde or John Ruskin on one side
and on the other such matter-of-fact,
unæsthetic, but successful individuals as
George Anderson or John Burton? The
answer is not so hard as "the lady or the
tiger" question of sacred memory, and it
puts in a nutshell the contention of the
Ginger Jar man on the subject.

The trouble with Patrick is that he
gets intoxicated by the flood of his own
eloquence at times and we should not
take all his remarks too seriously. The
trouble with William is an exuberance of
warm and ardent enthusiasm for lovely
things which puts him out of patience
with those unfortunates who have to
chase nimbly after the dollar. Once upon
a time there was a tramp with a large
bump of ideality and tenderness. Some
one sang, "Oh, Woodman, Spare That
Tree," and ever after that the said tramp
refused to cut wood. The merit of that
tale, of course, lies in the application of
it. There's such a thing as being too
Ideal!

G. C. WATSON.

Bad Business.

The Pittsburg *Leader*, of December 7,
under a "scare" heading, "Beauties at
\$3 Apiece; Enormous Advance in Flow-
ers Expected at Christmas Time,"
printed the following:

The statement was made the other day by an
East End florist that Christmas flowers are
likely to be much dearer this year than last.
Always the price of cut flowers soars high about
the time of Christmas, as the demand is extraor-
dinary and the supply inflexible, but this prophe-
cy was that it will be much higher this Christ-
mas than it has been for several years.

"American Beauty roses that last year sold for
\$24 a dozen will go up from their present price,
\$12, to \$24 a dozen, and in the week before Christ-
mas to \$36 a dozen," said an employe of Randolph
& McLements, in their East Liberty store the
other day. "The Christmas trade has grown
more and more every year, and the supply is not
nearly equal to it, and consequently the prices for
flowers on Christmas day are likely to be very
high this year."

There is more than a column in the
same strain. It may be interesting read-
ing, but it's bad business, even if J. B.
Murdoch does, in alleviation, say a word
as to the relative value of the stock hand-
led by the stores and the street sales-
men. This talk of high prices never sold
a flower at Christmas; but, on the other
hand, it has kept many a prospective
buyer out of the stores, needlessly fright-
ened away.

It is, of course, understood, if one gives
it a thought, that in no line of merchan-
dising is anyone engaged in holding bar-
gain sales in Christmas week, but it is a
fact that many retail florists find them-
selves compelled to sell at a smaller per-
centage of profit at that time than at any
other. Particularly is this true of those
numerous ones who cater to a steady
trade of not the highest class. In every
store the sale of long Beauties is a very
small part of the Christmas business; the
real demand on Beauties is always for
the medium lengths, but not a word is
said about them to the interviewer, and
there are other popular and cheaper
roses.

Newspaper publicity of the right kind
is always to be desired for the flower
trade, but those who talk for publication
should exercise a care. Bear in mind
that there are many things which can
be told the public to advantage. Talk
of the high quality of the stock this year;
point out the popularity of the medium-
priced boxes of cut flowers; show the
plants which are sold at a dollar or two;
above all, preach early buying, for early
ordering, more than any other thing,
will help the Christmas trade.

American Carnation Society.

The Chicago Carnation Company,
Joliet, Ill., registers Crusader, color
bright scarlet, produces two-foot stems
by October 1, is an extra early blooming
and healthy variety, never having shown
any signs of disease. The same firm
registers Chapron, color pure white, a
large full flower the form of which is per-
fect, slightly fringed, an early, free and
continuous bloomer.

Fiancee, registered last week without
description is described as follows: Color
a lively, bright, clear pink, a shade unap-
proached by any variety of carnation at
this time. Growth strong and healthy,
with no superfluous grass, every break
making a rapid advance and producing a
long-stemmed flower. Size from three
and one-half to four inches, with a depth
of two inches. Form nearest to Bradt
but with much greater depth. Stem
always sufficiently strong to hold up the
large flower, average length two feet.

Calyx perfect, of the Albertina type. Blooming qualities the earliest of all, free and continuous throughout the entire season.
ALBERT M. HERR, Sec'y.

Boston.

ZERO WEATHER INTERFERES WITH BUSINESS.—CUTS ON THE INCREASE.—GOOD PROSPECTS FOR CHRISTMAS.—SUPPLY BUSINESS BRISK.—HORTICULTURAL SOCIETY'S PRIZES.—VARIOUS LOCAL NOTES AND A FAILURE.

Boston is experiencing a touch of very wintry weather at present and with the mercury reposing at anywhere from 10° to 16° below zero, as it is to-day, the lot of the flower grower is not an enviable one, even if the coal troubles were not in existence. Receipts of flowers have not shortened up to the extent one would expect considering the temperature of the past few days and the natural inference is that a heavy crop, especially of roses, is about to materialize. If so, then there will be no famine for Christmas. Boxes arriving by express at the wholesale establishments to-day (Tuesday) are more or less damaged in their contents by freezing. This is not always the expressman's fault, as is readily seen when one notes the method, or lack of method, rather, some growers use in packing their flowers. A single thickness of newspaper lining in a plain wooden box is a poor protection against zero weather, yet that is all there is in some instances and if the flowers are ruined the grower has only himself to blame. Business, as a rule, is fairly good, the demand from out of town being fully up to the mark. Portland was a large buyer on Monday on account of the funeral services for the late Speaker Reed.

Outside of the straight cut flower trade the wholesale dealers are very busy. One of the most salable articles just now is cotton wadding and a bundle or two of this useful material goes out with nearly every country order. Shipping cases and other necessary equipments for the holiday trade are being received and stored and the calls for sundry supplies for Christmas use are heavy. Holly is coming in in limited quantity and is unexpectedly good so far. The discouraging reports from the holly districts this season have led to the fear that no good stock would be obtainable, but if the shipments are of the same quality shown in the advance lots then surely nobody can have reasonable cause for complaint.

The last meeting of the Massachusetts Horticultural Society for 1902 was held on Saturday, Dec. 6, at Horticultural Hall and was devoted to the presentation of the annual reports of the several committees. It was announced that the H. H. Hunnewell triennial premium for best-kept estate of not less than three acres had been awarded to C. H. Tenney. The John A. Lowell prizes for best house of chrysanthemums with decorative plants and best house of benched chrysanthemums were won by E. S. Converse, D. F. Roy, gardener. The Edward Hatch prize for best house of fruit was awarded to Mrs. J. C. Whittin. First for house of grapes went to Miss E. J. Clark, and for house of carnations to Patten & Company.

James M. Tuohy, of Everett, East Boston, and 192 Washington street, city, has filed a petition in bankruptcy; assets \$710, liabilities \$1,734.33, the latter being mainly to wholesale florists and cut flower market dealers.

The greenhouse of E. R. Lowe, West Roxbury, was damaged by fire on the

night of December 1, to the extent of about \$800.

Visitors: H. S. DeForest, representing Hitchings & Company, New York; David Gindra, Poughkeepsie, N. Y.

TOPSFIELD, MASS.—A. L. Schwoerbel is leaving shortly for a visit to Germany.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED.—By an A I rose grower. 5 years' experience. Best of references. Chicago preferred. E. care American Florist.

SITUATION WANTED.—By experienced and successful propagator; best of references. Address at once. EXPERT. care Am. Florist.

SITUATION WANTED.—By a good all-around grower of plants and cut flowers, single, 21 yrs. experience. Address C F, care Am. Florist.

SITUATION WANTED.—As good all-around man by good grower of cut flowers; married, steady. Chicago or vicinity preferred. C C, care American Florist.

SITUATION WANTED.—By a young man 25 years of age, single, to take care of a section of greenhouses; place in Chicago preferred. J E, care American Florist.

SITUATION WANTED.—As a traveling salesman for a reliable house in the florist line, the east preferred. Address SALESMAN, care American Florist.

SITUATION WANTED.—By young florist with life experience, good grower of cut flowers and plants, orchids a specialty. German nationality. EMIL BEHNKE, 912 Sheffield Ave., Chicago.

SITUATION WANTED.—As head gardener or foreman, German, 30 years of age, married, A No. 1 references. Neighborhood of New York preferred. Address J. KRAMER, care J. Blair, Ogden Mills, Staatsburg, N. Y.

SITUATION WANTED.—To take charge of a retail place. Good grower of roses and general cut flowers. 12 years' experience; single; age 33. A thoroughly reliable man. Ind., Ill. or Kentucky preferred. Address FOREMAN, care American Florist.

SITUATION WANTED.—As working manager, by a man of push and energy; grower of All Beauties, teas, carnations, mums, violets decorative and bedding plants. Only a first-class, large retail place where things are done right and good wages paid. B B, care Am. Florist.

WANTED. A first-class retail seed clerk, address with recommendations. OTTO SCHWILL & Co., Memphis, Tenn.

WANTED AT ONCE. A good grower to take charge. Steady position to right man. Roses, carnations, violets and plants. Address S H, care American Florist.

WANTED.—Good all-around cut flower grower, single, for a place near Kansas City. Good pay to the right party. Address GROWER, care American Florist.

WANTED. A competent man by Jan. 1 or a little later, to take care of rose section. Must be first-class man and come well recommended. PASTORIA FLORAL CO., PASTORIA, O.

WANTED.—Variation grower; a fine place to the right man, married or single. Answer quick if you mean business. State experience, wages and references. THE MIAMI FLORAL CO. 21 North Main St., Dayton, Ohio.

WANTED. A good experienced man to work in retail department of a Western Seed House. Must be intelligent and have a thorough knowledge of garden and flower seeds, bulbs, etc. State salary expected. Address SEEDS, care American Florist.

WANTED.—A married man of small family, of general experience, capable of taking charge of 12,000 feet of glass, general line grown. House furnished. State wages wanted and give references. None who get drunk wanted. Address JAMES FROST, Greenville, Darke Co., Ohio.

WANTED.—A married man without children, German-American preferred, to take charge of nursery where the growing of small stock for transplanting is made a specialty. Must understand the propagation of hardy shrubs and evergreens from cuttings, be sober industrious and well recommended; \$50 per month and a house. A permanent position to the right party. Address JOS. W. VESTAL & SON, Little Rock, Ark.

FOR SALE.—Horizontal tubular boiler 48x15 with plug hat dome and with 39 3/4-in. flues, very suitable for heating hot houses. Apply to Wisconsin Box Co., Wausau, Wis.

For Sale or Exchange.

Fully stocked greenhouses, 20 miles from Chicago, 25,000 feet of glass; steam heat; paying well; part cash, balance good real estate or time to right party. Address V J 95, care American Florist.

SITUATION WANTED

As Head Gardener, on private or commercial place, by a thorough, competent, reliable, all-around man of 22 years' experience on largest establishment in England, 9 years as head, last 3 years head gardener and rose grower to member of National Rose Society; age 36, married, two children. Copies of testimonials and references on request. Address F H, care American Florist.

WANTED.

A general gardener for private residence with small greenhouse, located in south western state. A married man with small family, or without, preferred. A good and lasting position for the right party. Address K O, care American Florist, Chicago.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box. F. O. B. Grand Rapids, Mich. Will sell all or any part. Address

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

A PROFITABLE BUSINESS FOR SALE.

Well equipped greenhouse establishment, half hour drive from best plant and flower market on continent. Sold last year 185,000 small ferns. Seven years established. Good reasons for selling. Establishment consists of eight iron-frame houses and four wooden-frame, heated by one ten-section Weathered, one nine-section Furman and three smaller Weathered boilers. Fire proof boiler room, stable, potting shed, eight room dwelling, horse and wagon. Electric lights throughout dwelling and greenhouses. Kerosene engine for pipe-threading and sawing wood. One year's supply of pots on hand. One house of young Kentias, other houses filled with ferns, various sizes, in perfect condition. One and three-quarter acres of land goes with houses. Trolley cars pass door every five minutes. Address J L, care W. J. STEWART, 79 Milk St., Boston, Mass.

E. H. Hunt,

WHOLESALE.....

Cut Flowers

THE "OLD RELIABLE,"

76 Wabash Ave., CHICAGO.

Poehlmann Bros. Co.

Wholesale Growers of

and Dealers in **Cut Flowers**

All telegraph and telephone orders given prompt attention. 35-37
GREENHOUSES: Morton Grove, Ill. Randolph Street CHICAGO, ILL.

Bassett & Washburn

76 & 78 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of **Cut Flowers**

GREENHOUSES: HINSDALE, ILL.

The Cincinnati Cut Flower Co.,

437-439 Main St. WHOLESALE FLORISTS. CINCINNATI, O.

Consignments Solicited. Special Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.

Michigan Cut Flower Exchange.

Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around. BRONZE GALAX, \$1.00 per thousand. 26 Miami Ave., DETROIT, MICH.

H. G. BERNING

Wholesale Florist

1322 Pine St., ST. LOUIS, MO.

Frank M. Ellis,

WHOLESALE FLORIST,

1316 Pine Street, ST. LOUIS, MO.

CONSIGNMENTS SOLICITED.

C. A. KUEHN,
Wholesale Florist,

1122 PINE STREET,

ST. LOUIS, MO.

A complete line of Wire Designs.

Pittsburg Cut Flower Co. Ltd

WHOLESALE FLORISTS.

Pittsburg, Pa.

Please mention the American Florist when writing.

CHRISTMAS PRICE LIST.

Orchids.	Per Doz.
Cattleyas.....	\$ 7.50
Cypripediums.....	3 00
Beauties. 36-inch stems.....	12 01
30 in. stems, \$10 00	21-in. stems 8 00
20 in. stems, 6 00	15 in stems 4 00
12-in. stems, 2.50	6-8 in. stems 1 50
	Per 100
Brides and Maids.....	\$15.00 to \$18 00
Meteors and Gales.....	15.00 to 18.00
Carnations, select.....	4.00 to 6.00
" faancies.....	7.00 to 8.00
Stevia.....	2 0)
Violets, double.....	2 50
" single.....	1 50
Callas.....per dozen \$2 50	
Valley, extra long.....	5 00
" select.....	4 00
Asparagus Plumosus, string, .50 to .75	
Sprengeri.....	3 00
Ferns.....per 1000, \$2 00	.25
Galax.....per 1000, 1.00	.15
Bronze Galax, " 1.50	.15
Adiantum, Leucothoe.....	1.00
Smilax.....per dozen, \$1 50	12.50 to 15 00



Caldwell's Kwality Kounts Brand
Wild Smilax now on hand.
We can supply **WHITE VIOLETS** on one day's notice.

J. B. DEAMUD,

LONG DISTANCE PHONE 3155 Central.

51 & 53 Wabash Ave., CHICAGO.

W. A. HAMMOND,

Richmond, Va.

Wholesale Florist.

Roses, Carnations, Chrysanthemums, Etc.

...GEO. M. KELLOGG...

Largest Grower of... Cut Flowers In the West.

Give us an order and we will please you. Our Greenhouses at PLEASANT HILL, MO Our Store, 906 Grand Ave., KANSAS CITY, MO

LONG DISTANCE PHONE AT EITHER PLACE.

Holton & Hunkel Co.

Wholesale Florists,

457 Milwaukee St., MILWAUKEE, WIS.

SHIPPING LABELS FOR

...Cut Flowers

Printed in two colors on gummed paper; your card, etc. in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples....

ELECTRO OF THIS LEAF, POSTPAID, \$1.25.

American Florist Co., CHICAGO.

Wholesale Flower Markets

MILWAUKEE, Dec. 11.

Roses, Beauty, long, per doz.	2 50@3.00
" " med. "	1.00@1 50
" " short "	.50@ .75
" Liberty.....	8.00@12.00
" Bride, Bridesmaid.....	6 00@ 8.00
" Meteor.....	6.10@ 8.00
" Golden Gate.....	6.00@ 8.00
" Perle.....	6.00@ 8 00
Carnations.....	2 00@ 4.00
Violets.....	1.50
Romans, Paper Whites.....	2.00@ 3.00
Callas.....	1.00@ 12.00
Stevia.....	1.5 @ 2.00
Adiantum.....	.75@ 1.00
Smilax.....	15.00
Asparagus.....	65.00

PITTSBURG, Dec. 11.

Roses, Beauty, specials, per doz.	5 00@7 00
" " extras "	3.00@ 4.00
" " No. 1 "	1 50@2.00
" " No. 2 "	.50@1.00
" Kaiserio.....	2 00@ 6.00
" Bride, Bridesmaid.....	2 00@12.00
" Meteor.....	4.00@ 6 00
" Liberty.....	2 00@ 3 00
Carnations.....	1.50@ 3.50
Paper Whites, Romans.....	2.00@ 3.00
Lily of the valley.....	4.00@ 5.00
Violets.....	40@ 1.50
Smilax.....	10.00@12.50
Adiantum.....	1.10@ 1.25
Asparagus, strings.....	40 00@75.00
" Sprengeri.....	2.0. @ 4 00

CINCINNATI, Dec. 11.

Roses, Beauty.....	10.00@50.00
" Bride.....	3.00@ 6.00
" Bridesmaid.....	3 00@ 6.00
" Meteor.....	3 0 @ 6.00
Carnations.....	1.50@ 4.00
Chrysanthemums.....	4 00@15 00
Lily of the valley.....	4 00
Harrisli lilies.....	15.00
Romans.....	3.00
Paper Whites.....	3 00
Asparagus.....	50.00
Smilax.....	12.50@15.00
Adiantum.....	1.25

ST. LOUIS, Dec. 11.

Roses, Beauty, long stem.....	35.00@50.00
" Beauty, medium stem.....	15.00@25.00
" Beauty, short stem.....	4.00@ 10 00
" Bride, Bridesmaid.....	3 00@ 8 00
" Golden Gate, Caroot.....	3 00@ 8 00
" Meteor, Perle.....	3 00@ 8 00
Carnations.....	1.50@ 3 00
Paper Whites.....	2 00@ 2 00
Romans.....	2.00@ 4 00
Tuberose.....	4 00
Lily of the valley.....	3 00@ 4 00
Smilax.....	12.50@15 00
Asparagus Sprengeri.....	1 50
" Plumosus.....	.75@ 1.00

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

CUT FLOWERS

59 WABASH AVE. CHICAGO

Lily of the Valley From Cold Storage

\$15.00 per 1000; case of 2,500,
\$35.00; per 100, \$1.75.

FINEST CUT VALLEY always on hand in large quantities.

H. N. BRUNS,
1409-1411 W. Madison St., CHICAGO.

WHOLESALE Cut Flowers

Florists' Supplies, Seeds, Etc.
Galax and Leucothoe, Wild Smilax.

Special attention given to shipping orders.
Long distance 'Phones, Main 584 and 748.

J. M. McCullough's Sons
316-318 Walnut St., Cincinnati, O.

PETER REINBERG,
Grower and Wholesaler of Cut Flowers.
600,000 FEET OF GLASS.
Headquarters for American Beauties.
51 WABASH AVE., CHICAGO, ILL.

FRANK GARLAND,
Wholesale Grower of Cut Flowers
SPECIAL ATTENTION GIVEN TO HARDY CUT FERNS
85-87 WABASH AVENUE,
Telephone Central 3284. CHICAGO.

JOHN MUNO,
Wholesale Grower and Shipper of Cut Flowers
Room 221, 51 Wabash Ave., CHICAGO.
TELEPHONE CENTRAL 3598. All telegraph and telephone orders given prompt attention.

RICE BROTHERS
WHOLESALE FLORISTS and FLORISTS' SUPPLIES.
Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.
Special attention given to shipping orders.
Send for price list of supplies.
128 N. Sixth St., Minneapolis, Minn.

It is good business policy to mention the

American Florist

.....when writing to an advertiser.

WIETOR BROS.

Wholesale Growers of

Cut Flowers,

51 Wabash Avenue, CHICAGO.

WITH one of the largest ranges of glass in the world devoted exclusively to cut flowers, we produce first grade stock in such large quantities that we can fill orders at all times.

BEAUTIES, ROSES, CARNATIONS.

Our stock was never finer than at present. Beauty is our specialty, of which we grow 60,000 plants, 60,000 Brides, Maids and Meteors; including Liberty-La France and Ivory of choicest quality, 160,000 Carnation Plants on benches, all best sorts. Buy of the grower and get fresh stock at lowest market rates.

CHRISTMAS PRICES.

Subject to change without notice.

AMERICAN BEAUTY	Per Doz.
Extra long stem	\$12.00
38-inch stem	10.00
21-inch stem	8.00
20-inch stem	6.00
15-inch stem	4.00
12-inch stem	3.00
8-inch stem	2.50
	Per 100
Bride	\$12.00 to \$15.00
Bridesmaid	12.00 to 15.00
Meteor	12.00 to 15.00
Golden Gate	12.00 to 15.00
Perle	8.00 to 10.00
Ivory	12.00 to 2.00
Liberty	10.00 to 20.00
Carnations.	
extra fancy	6.00 to 10.00
fancy	5.60
good	4.00

All other stock at lowest market rates.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations
A Specialty..... **WHOLESALE GROWER of CUT FLOWERS**

Benthey & Co.

F. F. BENTHEY, Manager.

Wholesale Commission Florists

Consignments solicited. 31-35 Randolph St., Chicago.

Please mention the American Florist when writing.

The F. R. WILLIAMS CO.

WHOLESALE FLORISTS.

Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.

Telephone Connections. CLEVELAND, OHIO.

Wholesale Flower Markets

CHICAGO, Dec. 12.

Roses, Beauty, 38-inch stems	8.00
" " 30 " "	5.00
" " 24 " "	4.00
" " 20 " "	3.00
" " 15 " "	2.00
" " 12 " "	1.50
" " 8 to 8 " " per 100	6.00@10.00
Liberty	5.00@15.00
LaFrance, Chateaux	5.00@12.00
Bride, Bridesmaid	4.00@10.00
Meteor, Golden Gate	4.00@10.00
Perle	4.00@8.00
Cattleyas	\$6.00 per doz.
Violets	6" 2.00
Carnations	1.50@4.00
Lily of the valley	4.00@5.00
Asparagus, per string	.50@.75
Adiantum	.75@1.00
Common ferns, per 1000	2.00 .15
Smilax, per dozen	1.50

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO.
Send for weekly price list and special quotations on 1000 lots.

GEO. REINBERG,

Wholesale Grower of Cut Flowers

CHOICE AMERICAN BEAUTIES.
We will take care of your orders at reasonable prices. Prompt attention.
51 Wabash Ave., CHICAGO, ILL.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

Samuel S. Pennock BEAUTIES AND LIBERTIES. PHILADELPHIA.

GEO. A. SUTHERLAND,
34 Hawley St., BOSTON.

Telephone 1270 Main.
BEST BOSTON FLOWERS. All Supplies.
An entire floor Devoted to Stock and Manufacturing. Distributing Agent for United States for the wonderful

Koral

LETTER, unequalled for design work. Script, any color, 3/4c a letter. Block letters, 1 1/2c each. The most elaborate design work to order in a few minutes.

GENERAL AGENTS:
H. BAYERSOORFER & CO., Philadelphia.
REED & KELLER, New York City.

SPECIALTIES THIS WEEK:

Christmas Evergreens.

SEND FOR PRICES.

CITY HALL CUT FLOWER MARKET

WELCH BROS., PROPS.

9 CHAPMAN PLACE, Boston, Mass.
15 PROVINCE STREET,

H. C. RIEDEL.

F. D. SPICER.

RIEDEL & CO.

WHOLESALE
Commission Florists.

34 West 29th Street,
NEW YORK.

Strictly Wholesale. Correspondence invited.

THE
NEW YORK CUT FLOWER CO.
55 and 57 West 26th St.,
WHOLESALE FLORISTS,
Daily Reports. Weekly Payments.
TELEPHONES: J. A. MILLANG,
2239 Madison Sq. MANAGER.
2034 Madison Sq.

GEORGE SALTFOORD,
Wholesale Commission Florist,
46 West 29th Street, NEW YORK.
Fair dealing and prompt returns guaranteed.
Correspondence solicited.
Author of "How to Make Money Growing Violets."

N. F. McCARTHY & CO.
Best Quality
CUT FLOWERS
and Supplies,
Tel. 734 and 64 Main. 84 Hawley St., BOSTON.

Wholesale Flower Markets

BOSTON, Dec. 10.

Roses, Beauty, Edgely, extra.....	35.00@60.00
" " medium.....	15.00@25.00
" " culls.....	6.00@ 8.00
" " Bride, Bridesmaid, Meteor	4.00@ 8.00
" " extra.....	10.00@16.00
" " Liberty.....	10.00@25.00
Carnations.....	1.50@ 3.00
Lily of the valley.....	2.00@ 4.00
Violets.....	.50@ 1.00
Paper White narcissi.....	2.00@ 3.00
Adiantum.....	.75@ 1.00
Asparagus.....	50.00
Smilax.....	12.50@18.00

PHILADELPHIA, Dec. 10.

Roses, Tea.....	2.00@ 4.00
" " extra.....	6.00@10.00
" " Beauty, extra.....	40.00@ 60.00
" " firsts.....	21.00@25.00
" " Queen of Edgely, extra.....	40.00@60.00
" " firsts.....	10.00@15.00
Carnations.....	1.50@ 5.00
Violets.....	1.00@ 1.50
Lily of the valley.....	3.00@ 5.00
Asparagus.....	25.00@50.00
Smilax.....	12.50@15.00
Adiantum-Farleyense.....	8.00@10.00

BUFFALO, Dec. 11.

Roses, Beauty.....	25.00@75.00
" " Bride, Bridesmaid, Meteor	4.00@ 8.00
Carnations.....	1.50@ 4.00
Violets.....	1.00@ 1.50
Paper Whites, Romans.....	2.00@ 4.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50

The Philadelphia Wholesale Flower Market.
1224 CHERRY STREET, PHILADELPHIA.
Phones, Keystone and Bell.

Is now open and ready for business. Consignments of good stock solicited, especially Valley, Violets and Carnations. Commission, 10 per cent and \$50 annual stall rent, payable monthly in advance. Flowers, choice of this market, carefully packed and shipped at short notice.
Please mention the American Florist when writing.

Give Us a Trial. We Can Please You



Roses, Carnations and all kinds of Seasonable Flowers in stock.
WM. F. KASTING, Wholesale Commission Florist,
481 Washington St., Buffalo N. Y.
Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

Fancy or Dagger Ferns \$1 Per 1,000.

BRONZE OR GREEN GALAX \$1.00 per 1000.
PRINCESS PINE, \$6.00 per 100 lbs. LAUREL FESTOONING, 4c, 5c and 6c per yard. Princess pine Festooning, all grades. Pine Wreaths and Laurel Wreaths, all grades for Xmas. Be sure and send your orders in early and you will get the best to be had.



Millington, Mass.
Tel. office, New Salem.

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg. 6th Ave. and W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock Every Morning.....
DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

THE KERVAN COMPANY

Southern Smilax; Palmetto and Cycas Palm Leaves, fresh and painted; Roping and Wreaths; Fern, Galax, Ivy and Magnolia Leaves, Leucothoe Sprays; Holly; Mistletoe; Mosses—each in its season, and its the season now for each. The best that grows. We have no other sort. Write for our list of stock with prices.

Telephone, 1519 Madison Sq.

20 WEST 27th STREET, NEW YORK.

Beauties and Valley Leo. Niessen, IN QUANTITIES.

On and after Sept. 15th will be open from 7 a. m. till 8 p. m. until further notice.

WHOLESALE FLORIST,
N. W. Cor. 13th and Filbert Sts., Phila.

FLOWERS SHIPPED BY

JOHN I. RAYNOR

ARE THE BEST PRODUCT OF THE BEST GROWERS FOR THE NEW YORK MARKET.

Adiantum Croweanum 49 W. 28th Street, NEW YORK.
Sold here Exclusively. Tel. 1998 Madison Square.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.

Are supplying the most superb stock of FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.

SEND FOR QUOTATIONS.

Walter F. Sheridan,
Wholesale Florist,

Telephone 902 Madison Square.

39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square.



MOORE, HENTZ & NASH

Wholesale Commission Florists.

55 and 57 West 26th St. NEW YORK CITY.

Advice of sale note daily. Statement and check weekly. All consignments, large or small, receive the same attention. CORRESPONDENCE INVITED.

VIOLETS. WILLIAM GHORMLEY, VIOLETS.
Wholesale Commission

Daily Receiver and Shipper of Fresh Cut Flowers.

Orchids, Roses, Carnations, Valley, Chrysanthemums.

Telephones 2100 and 2200 Madison Square.

57 West 28th Street, NEW YORK CITY.

JOHN YOUNG

Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.

51 West 28th St., NEW YORK.
Tel. 1906 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN NEW YORK CITY FOR

Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

WM. H. GUNTHER,
30 West 29th St., New York.
Telephone 551 Madison Square.

Frank Millang

Open from 6 a. m. to 5 p. m.

Cut Flower Exchange, 55-57 W. 26th St.
Phone 299 Madison Square. NEW YORK.

ESTABLISHED 1872.

JOHN J. PERKINS,
COMMISSION FLORIST,

Solicits Consignments or Shipping Orders. Satisfaction given in both.

Tel. 856 Madison Sq. 115 West 30th St., New York.

Bonnot Bros.

WHOLESALE FLORISTS.

65 and 57 W. 26th St. New York.
Cut Flower Exchange.

OPEN 6:00 A. M.

An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.

Traendly & Schenck

NEW YORK CITY,

38 W. 28th Street, Cut Flower Exchange.
New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

New York, Dec 10.

Roses, Beauty, Edgely, best.....	35 00@61.00
" " medium.....	20.00@31.00
" " in erior.....	5.00@10 00
" Bride, Bridesmaid.....	3.00@15.00
" M-teor, Golden Gate.....	3.00 @ 8:00
" Liberty.....	4.00@20.00
Carnations.....	1.00@ 3 00
" Fancy and novelties.....	3 0 @ 8 15
Violets.....	.50@ 2 50
Lily of the valley.....	3 0@ 5.00
Cattleyas.....	35.00 @60.00
Dendrobium formosum.....	20.00
Romans, Paper Whites.....	2.00
Smilax.....	10.00@15.00
Adiantum.....	.75@ 1 00
Asparagus.....	35.00@51.00
" Sprenger, doz. bun.	2.00@3 00

J. K. ALLEN

Wholesale Commission Dealer

— IN —

Cut Flowers

106 W. 28th St., NEW YORK.

Telephone 167 Madison Square

FORD BROS.

Receivers and Shippers of

FRESH FLOWERS,

111 West 30th St., NEW YORK.
Telephone 157 Madison Square.

REPRESENTING EMINENT GROWERS.

Julius Lang

53 West 30th Street, NEW YORK.

COMMISSION DEALER in FLOWERS
TELEPHONE 280 MADISON SQUARE.

ALEX. J. GUTTMAN,

Wholesale Commission Florist,

A full supply daily of the choicest New York and New Jersey

FLOWERS.

52 W. 29th Street, NEW YORK CITY.
Telephone 1738 Madison Square.

A. H. LANGJAHR,

Wholesale Commission Florist,

BEST FLOWERS SHIPPED AT LOWEST NEW YORK PRICES.

19 Boorum Place, Brooklyn, N. Y.
TELEPHONE 939 MAIN.

Hicks & Crawbuck,
WHOLESALE FLORISTS

NEW YORK: 45 West 29th Street. Tel. 2798 Madison Sq.
BROOKLYN, N. Y.: 108 Livingston Street. Tel. 3660-3661 Main.

EDW. C. HORAN,

55 WEST 28TH STREET,

Telephone 421
Madison Square.

.....NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAOE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

VISITED CHICAGO: C. R. Kimberlin and Wm. J. Fosgate, Santa Clara, Cal.

THE shortage of red onion seeds is having some effect on the contract prices for 1903.

THE catalogue men are now crowded day and night, completing the copy for 1903 editions.

THOS. J. GREY & COMPANY, Boston, have just installed a handsome tier of the Heller seed cases.

L. L. MAY, at St. Paul, is entertaining his visitors with bobsled rides down the St. Paul hills, a delightful sport.

BEAN deliveries are growing from bad to worse. Many of the scarce wax varieties are held now at \$6 per bushel.

R. H. SHUMWAY, Rockford, Ill., will embellish the title page of his 1903 catalogue with a fine portrait of himself.

VISITED SEDALIA, Mo.—John R. Horn, representing Cox Seed Company, San Francisco; Earl H. Fry, of Rush Park Seed Company, Independence, Ia.

SOME eastern seedsmen report that the use of untrue sorts in the public distribution of vegetable seeds has hurt their catalogue demand for the genuine types.

THE government is reported in want of two good expert seed handlers. They took in some 18,000 pounds of cucumber at a price of about 18 cents in the summer.

IT is reported and believed that the aphid which has proven so destructive to the cucumber vines will not soon be gotten rid of in those sections where it has prevailed.

SANTA BARBARA, CAL.—The number of pampas plumes gathered this season is very much less than for several years, owing principally to low prices and high price of labor in harvesting.

HAGEMANN & MEYER, New York, have dissolved partnership and the business will hereafter be conducted by Mr. Hagemann. Mr. Meyer will form a partnership with Chas. Schwake, who has been for some time in the employ of the old firm.

AT Indianapolis, Helen C. Vail sued S. J. Vail, her brother, for an accounting and dissolution of partnership, later filing a petition for the appointment of a receiver for the Vail Seed Company. The Union Trust Company was named and took possession December 10.

THE labor question is an important one with the California seed growers, the advance being 30 cents to 40 cents per day. The Portuguese laborers get \$1.50 per day, against \$1.40 for the Chinese, while the latter are much more careful seed gatherers. Laborers during the prune picking season received \$1.75 to \$2 per day.

CALIFORNIA growers and their customers are discussing the equities involved in cases where volunteer crops of novelties have been produced and put on the market by the grower without the knowledge or consent of the original owner of the stock seed. The introducing seedsmen is disposed to claim that in case seed should volunteer to grow on fields where his novelty has been grown

he should have the right to order the same plowed under and destroyed and the grower should not let the same grow and produce a crop to compete with the introducer without the latter's consent.

Catalogues Received.

Glen St. Mary Nurseries, Glen St. Mary, Fla., fruit and ornamental trees, roses, etc.; Edward S. Schmid, Washington, D. C., birds and pet animals; M. Rice & Co., Philadelphia, Pa., florists' supplies; H. M. Altic, Dayton, Ohio, price list of Chrysanthemum Estelle; Francis Brill, Hempstead, L. I., price list of vegetable seeds; Kohler & Rudel, Windschleuba-Altenburg, Germany, miscellaneous plants; A. N. Pierson, Cromwell, Conn., roses, car-

nations, etc.; Alexander McConnell, New York City, ornamental and foliage plants; M. Herb, Naples, Italy, seeds; A. N. Jones, Le Roy, Genesee county, New York, bean and wheat seeds; the Evans Seed Co., Ltd., West Branch, Mich., bean and pea seeds; J. J. Nussbaumer, San Angelo, Tex., rose plants, etc.; M. H. Walsh, Woods Holl, Mass., hardy roses, hollyhocks, pæonias and phlox; Foley Manufacturing Co., Chicago, greenhouse construction material; Perry Hardy Plant Farm, Winchmore Hill, London, England, hardy perennials; Thomas Meehan & Sons, Germantown, Pa., trees; Wilbur A. Christy, Kinsman, Ohio, gladioli; John Lucas & Co., Philadelphia, paints, etc.; Dammann & Co., San Giovanni a Teduccio, near Naples, Italy, seeds; Cox Seed Co., San Francisco, Cal., views.

OVER 2,000 ACRES IN CULTIVATION.

Braslan Seed Growers Co.

Growers for the Wholesale Trade Only.
Correspondence solicited. SAN JOSE, CAL.



Field of Large Red Wethersfield Onion going to seed, crop 1902.

To the American Wholesale Seed Trade

We shall have pleasure in quoting special low Contract prices for seed of the under-noted varieties, which we have grown very extensively in Surrey, Essex and Lincolnshire, our principal effort being to produce the very best strains and supply them direct to the Trade at the most moderate prices. Visitors to England are cordially invited to call and inspect our trial grounds and growing crops.

PEAS.

The following are carefully saved from English grown varieties and may be relied upon for "Stock seed" or other purposes:

Alaska,	Notts' Excelsior,
Alderman,	Sutton's A. I.
Autocrat,	Sutton's Excelsior,
American Wonder,	Sharpe's Queen,
Bountiful,	Stratagem,
Daisy,	Sangster's No. 1,
Duke of Albany,	The Stanley,
Duke of York,	Veitch's Perfection,
English Wonder,	William Hurst,
Gradus,	William the First,
Lightning or Earliest of All,	Yorkshire Hero, etc.

Mangel Wurzel.

Colossal Long Red,	Yellow Intermediate,
Colossal Long Yellow,	Champion Yellow Globe,
Orange Globe,	Golden Tankard.

BEET.

Egyptian Turnip,	Globe Varieties,
Exhibition Long Red,	Improved, etc., etc.

CABBAGE.

First and Best Early,	Selected Nonpareil,
London Market,	Drumhead Varieties,
Etc.,	Etc.

CARROT.

Early Market,	Long Surrey,
New Intermediate,	Selected Altrincham,
Etc.,	Etc.

RUTA BAGA.

Long Island,	Elephant or Monarch,
	Scotch Bangholm.

TURNIP.

Early Snowball,	Yellow Tankard,
Aberdeen Yellow Varieties, etc., etc.	

Specialists in Giant Market Fancy Pansies
"CORONATION STRAIN," \$4.00 per ounce, post free.

Wholesale Catalogue Mailed free on application. Special offers made on receipt of quantities required.

THE SURREY SEED CO., Ltd., REDHILL, ENGLAND.

...Write to...

E. C. AMLING

About Your

CHRISTMAS NEEDS

CHRISTMAS PRICES.

Subject to Change without notice.

BEAUTIES

Stems 36 inches.....per doz.	\$12.00
“ 30 “	10.00
“ 24 “	8.00
“ 20 “	6.00
“ 15 “	5.00
“ 12 “	4.00
“ short.....	\$1.50 2.00
BRIDES.....per 100,	\$12.00 to 18.00
BRIDESMAIDS.....	12.00 to 18.00
METEORS.....	12.00 to 18.00
GOLDEN GATES.....	12.00 to 18.00
CARNATIONS,	
select, all colors,	4.00 to 5.00
large and fancies,	6.00 to 8.00
VIOLETS, double.....	2.00 to 3.00
VALLEY, select.....	5.00
CALLAS.....per doz.,	2.00
MIGNONETTE.....per doz.,	.60 to .75
ROMANS.....per 100,	3.00 to 4.00
PAPER WHITES.....per 100,	4.00
STEVIA.....per 100,	2.00
ASPARAGUS PLUMOSUS,	
per string,	.50 to .75
per 100,	2.00
SPRENGERI.....per 100,	3.00 to 4.00
SMILAX.....per doz.,	1.50 to 2.00
ADIANTUM.....per 100,	1.00 to 1.50
FERNS, per 1000, \$2, per 100,	.20
GALAX, per 1000, \$1, per 100,	.15
LEUCOTHOE SPRAYS, per 100,	.75



IN RECENT YEARS there have never been too many GOOD FLOWERS for Christmas. Almost always there are too few. We want to impress upon flower buyers, however, that there is no other place where one can be more certain of getting what he wants. We are agents for some of the best and largest growers tributary to the Chicago market. We handle everything in cut flowers in season and our force is ample to handle every order promptly.

We shall have large supplies in all lines for Christmas, no doubt of that, but inquires were never more numerous nor advance orders heavier. Better give us an insight as to YOUR needs. Better write to-day. But if you find you're running short, don't hesitate to send a late telegram or, better yet, call us up on the long distance telephone. Two of them, Central 1999 and Central 1977.

E. C. AMLING.

The Largest, Best Equipped and Most Centrally
Located Wholesale Cut Flower House in Chicago.

32-36 RANDOLPH ST.

CHICAGO.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. LOENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

CLARENCE WEDGE, of Albert Lea, has been elected president of the Minnesota State Horticultural Society.

VISITED CHICAGO: Robert George and J. H. Dayton, of the Storrs & Harrison Company, Painesville, Ohio.

AN Illinois concern recently shipped \$6,000 worth of large nursery stock to customers in the vicinity of New York city.

THE large amount of work in progress on private estates is reflected in the call for trees and shrubs of a size for immediate effect.

RAILROAD work has become a not inconsiderable part of the business of many nurseries. The movement toward beautifying station grounds is spreading rapidly.

CALIFORNIA privet, twelve to eighteen inches, advertised in this department by Henry Eichholz, Waynesboro, Pa., was quoted at \$9 per hundred when, of course, \$9 per 1,000 was intended.

THE prospect is almost a certainty for a closer clean-up next spring than has heretofore been known in hybrid perpetual roses. Already several large handlers are sold out on some leading sorts. Prices are advancing.

Big Trees in California.

A determined effort will be made by a number of public spirited organizations in the west to get a bill through congress at this session for an appropriation to purchase the Calaveras big trees in California and have the tract containing these wonders of nature turned into a national park. The preparatory step in this matter was taken at a meeting called by the members of the California Club, at San Francisco, December 8.

At this meeting it was decided that no time should be lost, and it was decided to invite a number of local organizations to appoint from their muster rolls a delegate each, to form a central committee to see that no stone shall be left unturned in endeavoring to get the appropriation through. The big grove of sequoias is on what is known as the Sperry tract, and comprises 2,300 acres of land. Should congress pass the bill, that calls for an appropriation of \$200,000, Robert B. Whiteside, the present owner of the property, would be tendered the money, and should he refuse to accept such a sum condemnation proceedings would at once be instituted.

Philadelphia.

COLD WEATHER AND THE APPROACH OF CHRISTMAS MAKE PRICES JUMP.—GOOD BUSINESS USES UP ALL STOCK IN SIGHT.—BOX PARTY AND DINNER FOR FLOWER HANDLERS.—HELP WANTED.—VARIOUS NOTES.

Winter set in in earnest the first of the week, with a fall of four inches of snow and a fall in the temperature to 18°. This made great holes in the coal piles, small enough at best, but although the expense was great, we hear of no damage from frost, as thus far coal enough has been obtained. The prices of all

grades of flowers have taken a great jump the past two weeks. Special Beauties are now \$6 per dozen, while anything worth having brings \$2. The quality is fine. Teas range from \$6 to \$12 per hundred, with from \$15 to \$18 asked for the best Liberties. Carnations move well at from \$2 to \$5, the latter price for the select Lawsons. Many carnations coming in of late seem to be soft and become sleepy the second day. What is the cause? Violets are getting scarce. In fact they move so quickly that one has to be on the alert to get enough for orders, without thought of stock. Singles range from 50 cents to \$1 per hundred, doubles \$1 to \$1.50. Mignonette sells for from \$3 to \$4, bouvardia \$2 to \$2.50. Valley is in good demand at from \$3 to \$4; it has nearly all to be cut too soon to supply the great demand for it. Cattleyas are much sought for at 50 cents each.

The box party given at Keith's theatre by Pennock Brothers to the employes of the growers and commission men with whom they do business, and the dinner which followed, was quite a success. After the dinner speeches and songs were in order. Those in attendance were Lidden Pennock, host; Edgar Upton, Ralph Shrigley, Edward Smith, William Thompson, Charles Smith, Samuel Lily, John McIntyre, Ernst Frame, W. J. Moore, E. Bernheimer, Wm. Stephens, Paul Klingspooon, "Billy" Anderson and Benjamin Starkey. This is surely a city of brotherly love and now, since H. H. Battles has taken care of the commission men with a dinner and Pennock Brothers have gone him one better, with a box party in addition, it will be in order for

the rest of the retailers, the "also rans," to take the growers in tow and give them, well, let's see, yes, a ball for them and their families, with decorations, music and plenty to eat, with a light brew of John Westcott's punch to settle it. Let everybody get out his dress suit, for nothing will be too good for this occasion.

Wanted a receipt for placing a white, waxy protuberance, delightfully fragrant, of a more or less irregular shape, on the end of a branch with glossy green leaves; when complete it is commonly called gardenia, but without the protuberance aforesaid it has been called by various synonyms generally mentioned sub rosa. Apply to Robt. Craig & Son, W. K. Harris and Robt. Scott & Son, all of Philadelphia. A liberal reward is waiting, with special inducements on the side. P. S.—The offer is to be withdrawn after February 15.

The prospects for Christmas are very bright. Already all the choice stock has been booked and the growers will not have much to do but see that it is safely delivered. Messrs. Craig and Harris both say they have never had such an advance sale. Godfrey Aschmann says his Christmas stock is fast going and it promises to be his best year.

The chrysanthemums are all gone. They sold out pretty clean this season and, while all are glad they are out of the way, they will be anxiously looked for in the fall of 1903.

Things are moving nicely at the market, the list of growers is gaining and those who were timid at first are now glad they made the move.

K.



Almost half a century of fair dealing has given our products that prominence which merit deserves. We still offer everything of the best for

ORCHARD, VINEYARD, LAWN, PARK, STREET, GARDEN & GREENHOUSE.

Correspondence solicited. Catalogue and Trade List free. 49 years, 44 greenhouses, 1000 acres.

THE STORRS & HARRISON CO., Painesville, Ohio.

Crimson RAMBLER.

5 to 6 feet, extra heavy plants, \$20.00 per 100.
4 to 5 feet, \$15.00 per 100.
3 to 4 feet, \$12.00 per 100.
2½ to 3 feet, \$10.00 per 100.

The Conard & Jones Co., West Grove, Pa.

ILEX OPACA HOLLY.

Excellent, well graded and well furnished stock in sizes from 6 inches to 3 feet, at from \$6.00 to \$25.00 per 100. Send for our Trade List.

Pinehurst Nurseries, Pinehurst, N.C.



Send to **THE MOON Company**

For **Trees, Shrubs, Vines** and **Small Fruits.**

Descriptive Illustrated Catalogue Free. **THE WM. H. MOON CO.** Morrisville, Pa.

Catalogue Illustrations.

We sell Electros of the fine illustrations used in the AMERICAN FLORIST at 15c per square inch. Send list of your needs to.....

The American Florist Co., Chicago.

Fine Grafted **ORANGES** Bearing Sizes.

Per 100
12 inch, bushy, from 4-inch pots..... \$20.00
15-18 inch, bushy, from 4-inch pots..... 30.00

Kin Kans 10-12 in., bushy, from 4-in. pots 20.00
15-18 in., bushy, from 4-in. pots 30.00

Lemons 12-15 in., bushy, from 4-in. pots.. 20.00
18-24 in., bushy, from 4-in. pots 30.00

Roses Climbing Clothilde Soupert, strong field-grown..... 10.00
Crimson Rambler, stg. field-grown 7.00

Clematis Apifolia A fine variety, somewhat similar to C. Paniculata, but blooms earlier and lasts longer; strong plants from 3-inch pots.... 8.00
(Not less than 40 of a class at 100 rate.)

Citrus Trifoliata (Best defensive hedge plant.) Per 1000
Strong, 2 year old, field-grown..... \$15.00
Strong, 3 year old, field-grown..... 20.00

Amoor River Privet (Better than California Privet.)
18-24 inch, branched..... 15.00
24-36 inch, branched..... 20.00

Not less than 400 of a class at these rates.

Rubbers, Kentias, Phoenix, Latanias, Pandanus, Ornamental Trees and Shrubs in large quantities.

WRITE FOR CATALOGUE.....

P. J. BERCKMANS CO. (Inc.)

FRUITLAND NURSERIES,

Established 1856. **AUGUSTA, GA.**

Please mention the American Florist when writing.

CHRISTMAS

Roses, Violets, Carnations.

THE OUTLOOK is for a good grade of stock and large supplies, but Christmas comes but once a year and everybody wants flowers, so get your order in early and wire additions to it if you need extra supplies. Herewith we quote the advance list. It is our judgment of what the market will be, but we always give buyers the advantage of the market changes. Our motto is: "Everything in season at Chicago market price."

CHRISTMAS PRICE LIST Subject to Change Without Notice.

American Beauties

All lengths of stem at market prices. Supplies short. Prices, \$12 to \$15 per dozen on long; other lengths in proportion.

Brides.....	per 100,	\$10.00 to \$15.00
Bridesmaids.....	per 100,	10.00 to 18.00
Meteors.....	per 100,	12.00 to 18.00
Perles.....	per 100,	8.00 to 15.00
Golden Gates.....	per 100,	8.00 to 15.00
Liberty.....	per 100,	12.00 to 20.00
Liberty, Fancy.....	per doz.,	3.00 to 4.00
Roses, our selection.....	per 100,	7.00
Violets.....	per 100,	1.50 to 2.50
Valley.....	per 100,	3.00 to 6.00

Carnations, common.....	per 100,	\$ 2.00 to \$ 2.50
" select.....	per 100,	3.00 to 4.00
" fancy.....	per 100,	5.00 to 6.00
Paper Whites.....	per 100,	3.00 to 4.00
Romans.....	per 100,	3.00 to 4.00
Marguerites.....	per 100,	1.00 to 1.50
Mignonette.....	per 100,	4.00 to 6.00
Stevia.....	per 100,	2.00
Adiantum.....	per 100,	1.00 to 1.50
Smilax.....	per doz.,	1.50 to 2.00
Asparagus Plumosus.....	per string,	.60 to .75
Asparagus Plumosus.....	per 100,	2.00 to 3.00
Asparagus Sprengeri.....	per 100,	1.50 to 3.00
Galax.....	per 1000,	1.50
Ferns.....	per 1000,	2.00

POINSETTIAS, \$2.00 to \$6.00 per dozen.

KENNICOTT BROS CO.

Wholesale Florists,

40-42-44 Randolph St.

CHICAGO.

ALWAYS A WINNER!

Governor Wolcott

3,000 stock plants in perfect condition. Order now for January delivery: \$5 per 100; \$45 per 1000; \$200 per 5,000.

Henry A. Stevens Co., East St. Dedham, Mass.

All The Best CARNATIONS

The Leading Novelties of 1903.
The Best Varieties of 1902.
All the Standard Varieties.
Order your Rooted Cuttings NOW.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

HERRON...

Carnation Grower,

OLEAN, N. Y.

Please mention the American Florist when writing.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

At Philadelphia.

The match game in the City League bowling championship contest between the Florists' Club and the Alexis, December 4, resulted as follows:

FLORISTS	1st	2d	3d	T'l
Moss	140	158	154	452
Connor	149	138	156	441
Polites	142	157	153	452
Yates	142	168	151	461
Kift	158	153	168	479
Total	731	772	782	2285

Alexis Club.....2298

The Florists' team is now tied for first place with the Pan-Americans. The next match will be with the Eagles, December 16. Dunham broke the record on the home alleys December 6, with a score of 274, the best previous record for two alleys being 259. W.

At Chicago.

On the evening of December 8 the pride of the McKellar & Winterson team, hitherto undefeated, was humbled by the retailers, who beat them two out of three, but the vanquished team had the satisfaction of winning on total pins for the three games. Following is the complete score:

RETAILERS.	1st	2d	3d	T'l
Hauswirth	148	2 2	174	524
P. Kreitling	111	106	117	334
Lambros	1 8	193	164	465
W. Kreitling	98	107	168	373
Asmus	135	162	145	443
Total	600	770	769	2139

MCKELLAR & WINTERSON	1st	2d	3d	T'l
E. Winterson	128	143	117	388
Sterrett	167	161	155	483
Bentley	159	173	177	509
Pruder	130	154	122	406
Balluff	179	136	171	486
Total	763	767	742	2272

VAUGHAN'S.	1st	2d	3d	T'l
H. Bollnow	133	141	102	376
Goss	95	104	137	333
J. Roy	119	1 7	129	405
A. Bollnow	166	120	173	459
L. Winterson	103	114	137	354
Total	616	635	678	1929

WHOLESALEERS.	1st	2d	3d	T'l
Geo. Scott	152	155	166	473
Geo. Pieser	135	131	137	403
A. Zeck	147	142	136	425
A. Newell	110	206	129	445
J. Zeck	143	105	169	417
Total	687	739	737	2163

LADIES' GAME.

Player	1st	2d	3d	T'l
Mrs. Kreitling	103	109	84	297
Mrs. Winterson	63	65	65	193
Victor Kreitling	88	117	125	330
Mrs. Hauswirth	89	71	96	256
Elsa Hauswirth	41	78	28	147
Mrs. Brady	65	35	66	167

On Sunday morning, December 14, at 10 o'clock, there will be a meeting at McKellar & Winterson's, which all bowlers are urged to attend. It is for the purpose of making arrangements for the Milwaukee contest.

Shooting at Philadelphia.

The third shoot of the series for the Florists' Gun Club officers' trophy, December 9, was well contested and developed some good scores. Anderson, Dorp and Winchester were high men. The conditions were fifty targets, twenty-five

over the Sargent system and a like number over the Magautrap, handicap added to the score. The scores follow:

Name.	Sargt.	Mag.	Hde.	Total
Massey	17	18	12	47
Sanford	22	20	1	46
Bell	10	17	13	40
League	13	15	14	42
Clark	15	19	9	43
Baugh	3	5	8	8
Dorp	18	21	19	58
Arnt	18	18	36	36
Hutt	18	19	8	45
Lower	16	10	26	26
Till	15	21	13	48
Anderson	22	22	8	52
Westcott	17	20	10	47
McMaster	18	20	8	46
Winchester	22	24	4	50

Following the contest the Board of Governors held a special meeting, at which the officers were appointed to arrange details for the 1903 tourney of the Pennsylvania State Sportsmen's Association. The committees appointed were: Programme, George Anderson, A. H. Fox, Will. K. Park; trophies, V. V. Dorp, W. Tillinghast; grounds, J. K. Starr, A. L. Whittaker; corresponding secretary, W. L. Colville. The new flag pole at the club house at Wissinoming has been erected and a committee appointed to arrange for a complimentary dinner to the donor, C. J. Renear. W.

St. Louis.

MARKET ERRATIC.—STOCK GENERALLY VERY GOOD.—NOTES OF DOINGS HERE AND THERE.—VISITORS.

The market is somewhat quiet for this time of the year, although some very good stock is sent in. American Beauties are choice and as high as \$5 is paid occasionally, but the majority of the stock is sold at from \$2.50 to \$4 per dozen. Some very fine Golden Gates, Meteors, Brides and Bridesmaids are seen and the fancies are all found in these four varieties; \$3 to \$8 per hundred is received for them. In carnations there is quite a list of fancy stock; \$1 to \$3 is the range of prices. Violets still remain very scarce and are bringing from \$1 to \$1.50 per hundred. Narcissi and Romans are on the regular list now and bring from \$2 to \$3. Some fine smilax has been in evidence of late.

The Michel Plant and Bull Company has some very fine Gloire de Lorraine begonias and a fine lot of young rubbers. They have some very fine young holly trees in pots that make a fine show. They are doing a great deal of landscape work this year and have a nice lot of shrubs and trees on hand to do it with.

Holly is to be seen at some of the stores and it is very fine. It is selling at \$5 per case. A great deal of lycopodium can be had at low figures.

E. W. Guy and G. W. Grossart, of Belleville, report business as having been very good.

F. W. Weber, late with Geo. M. Kellogg, at Kansas City, is back in St. Louis.

Visitors: Geo. M. Kellogg, Pleasant Hill; John Schnabel, Columbia; L. R. Allen, Murphysboro, Ill. R. J. M.

Newport, R. I.

HORTICULTURAL SOCIETY CHOOSES NEW PRESIDENT.—COLD WAVE.

At a meeting of the Newport Horticultural Society the following officers were elected: President, Robert Laurie; vice-president, James Sullivan; second vice-president, Colin Robertson; secretary, David McIntosh; financial secretary, Joseph Gibson; treasurer, Andrew T. McMahon; executive committee, James McLeish, Sr., Arthur Griffen, James Boyd, James Robertson, Bruce Butterton, Alexander Fraser, James Sullivan and Alexander McLellan.

Some of our oldest residents do not recollect a cold spell within fifteen years equal to the present, the temperature having been 5° below zero. Coal is up again, to \$11 a ton. C. J. M.

TAUNTON, MASS.—Ed. Powell, who has for several years held the position of head gardener for W. J. Clemson, has resigned and gone to Redlands, Cal., on account of ill health.

LENOX, MASS.—The Lenox Horticultural Society at its last meeting elected the following officers: President, E. Lundberg; vice-president, S. Carlquist; secretary, Fred. Hermans; treasurer, A. J. Loveless.

Chinese SACRED LILIES FOR 1903.

We beg to announce to the trade, that notwithstanding rumors to the contrary, we shall continue to handle this article and unless the next crop is a failure, which was not the case this season, we shall guarantee **FULL and COMPLETE DELIVERY** of any and all orders our friends may favor us with, the same as we did this fall.

CORRESPONDENCE INVITED.

SUZUKI & IIDA, 31 BARCLAY STREET, NEW YORK.
21-31 Nakamura-machi, YOKOHAMA, JAPAN.

H. C. RIEDEL.

F. D. SPICER.

The New Wholesale Florists

STRICTLY straight wholesale commission business done. Growers can consign their product with the assurance that their goods will be sold on their merits; we have no favorites. Retail buyers can support us with the knowledge that we accept no retail trade under any conditions. We have no interests outside of legitimate consignors and retailers. We solicit regular consignments and can give satisfaction. Buyers for the Holidays will do well to give us a trial as we are already in control of the right kind of stock. **Correspondence invited.**

RIEDEL & CO. Late with Thos. Young, Jr.
 Telephone 3039
 Madison Square **34 West 29th Street, New York City.**

For Christmas Decorations

I HAVE A SPLENDID CROP OF

Asparagus Plumosus Nanus

GOOD HEAVY STRINGS, 50c EACH.

W. H. Elliott,

Brighton, Mass.

Grand Island, Neb.

BUSINESS GOOD AND PROSPECTS NEVER BETTER.—STOCK DOING WELL.—GOOD CUTS ARE ON.

From one house of carnations with 1,800 plants, Brewster & Williams have picked, from October 1 to December 8, 5,113 blooms. Joost is the leader in pink, with Genevieve Lord a good second. Crane leads for red, White Cloud for white and Gomez for dark.

Thanksgiving trade was the best on record, everything cleaned up. Brewster & Williams keep increasing their planting of single-stem chrysanthemums every year, but it was the same story this year, all sold, and it means a few hundred more next year.

We have had some pretty snappy weather for the last week, quite a snowfall with the temperature down to 8° below zero. It caught Ellsworth Brothers napping.

The outlook for Christmas trade is good, and by the looks of things there will be enough stock to go around.

Ed.

Orange, N. J.

The annual election of officers of the New Jersey Floricultural Society was held at the December meeting. Those chosen were the following, all being unanimously elected: President, George Smith; vice-president, Wm. Bennett; secretary, Joseph A. Manda; treasurer, Malcolm Macrorie. A larger attendance than usual was present, attracted in part by the entertainment provided, which consisted of a stereopticon exhibition of flowers and views in celebrated gardens of England, France and Germany, with explanatory remarks by J. B. Davis, chairman of the entertainment committee. The slides were largely the work of John McGowan, who is an expert in photography as well as floriculture. All were greatly pleased and expressed the conviction that no better feature can be provided than such as this for progressive society meetings.

Eric, Pa.

Real winter is here and it presents many difficulties to the greenhouse manager. Trade is very good and it looks as though the holiday season would be a record-breaker.

S. Alfred Baur has purchased twenty acres of land adjoining his place and will, in the spring, erect an additional 50,000 feet of glass. There will be eight houses 30x200 feet, which will give a total of 125,000 square feet available for growing.

SECAUCUS, N. J.—Otto Grundmann is adding another house 24x150, of best cypress, 16x24 glass and steam heated. Emil Dubelbuss, of West Hoboken, is doing the work.

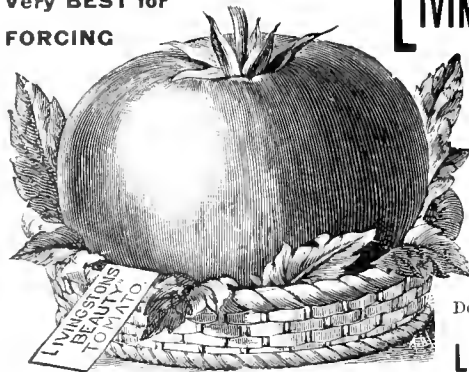
Paper White Narcissus,
\$2.00 per 100.

LILY OF THE VALLEY,
\$4.00 and \$5.00 per 100.

JOHN WOLF, Savannah, Ga.
Please mention the American Florist when writing.

EXTRA CHOICE FLOWER SEEDS.
List free on application.
FRED. ROEMER, Seed Grower,
Quedlinburg, Germany.

Very BEST for FORCING



Please mention the American Florist when writing.

LIVINGSTON'S BEAUTY TOMATO.

Prof. W. J. Green, of the Ohio Experiment Station says:

"I am fully satisfied that Livingston's Beauty Tomato is the most profitable variety of all for growing under glass."

Prof. W. B. Alwood, of the Virginia Experiment Station says:

"Your Beauty Tomato was superb, and as usual, gave us magnificent fruit. We are using it now exclusively for winter forcing."

OUR OWN CHOICE SELECTED SEED,
Pkt. 10c.; Ounce 25c.; 4 Ounces 75c.

Descriptive Catalogue, also Florists' and Market Gardeners' Wholesale List free on application.

Livingston Seed Co., Columbus, O.

GLADIOLI OUR MOTTO: QUALITY FIRST.

We have, however, a sufficient quantity to supply all demands. Send for Catalogue.

ARTHUR COWEE,

"Meadowvale Farm,"

Long Distance 'Phone 9x.

Berlin, N. Y.

United States Grower and Representative of GAOFF'S HYBRIDS.

FINE, COOL GROWN FERNS ONE CENT.

Pteris Tremula, P. Hastata, Onychium, Gymnogramma, Lygodium, Polypodium, Adiantum, P. Sulcata, Selaginella, Nephrolepis, etc. Transplanted singly in cool frames, good stock and liberal count. Mail orders our specialty. \$1.25 per 100, postpaid. Per 100, \$10.00.

CLARK & LEY, THUNDERBOLT FERNERIES, SAVANNAH, GA.

WANTED

To purchase the following plants:

- GERANIUMS** Jean Viaud, 300; S. A. Nutt, 300; 2-inch pots.
- Vinca Var., 3-inch pots, 100.
- English Ivy, 2-inch pots, 50.
- Asparagus Sprengeri, 2-inch pots, 50.
- Cyperus Alternifolius, 3-inch, 100.
- Alternanthera, red and yellow, 1000 of each, r. c.
- COLEUS** Golden Bedder and Verschaffeltii, 300 of each, rooted cuttings.
- Salvia Splendens and Bonfire, 2-inch pots, 50 of each.
- Boston Fern, 3-inch, 50.
- Cineraria Hybrida, 3-inch, 200.

Also state prices on the following Palms in 4-inch pots:

- Dracana Indivisa, 25.
- Kentia Belmoreana, 25.
- Kentia Forsteriana, 25.
- Pandanus Utilis, 10.
- Latania Borbonica, 15.
- Phœnix Canariensis, 25.
- Araucaria Excelsa, 15.

Must be good strong plants.

Anyone having all of these or a part of them for sale, address

C. H. STIMSON, KRAMER, IND.

Please mention the American Florist when writing.

Carnations ROOTED CUTTINGS.
Cannas ALL THE LEADING VARIETIES.

Write for prices, which are right.

W. W. COLES, Kokomo, Ind.

THE NEW FERN

Anna Foster

Unqualified success. Quick seller. Very prolific, at 2 1/4-in. \$10; 3-in. \$20; 4-in. \$35; 5-in. \$50 per 100. Larger plants, prices on application.
KENTIA PALMS, \$50, \$75 and \$100 per 100.
RUBBERS, 5-in. pots, 18 inches high, \$4 per doz.
L. H. FOSTER, 45 King Street, Dorchester, Mass.

Orchids!

Just arrived in perfect condition,

LAELIA ELEGANS

and **Cattleya Intermida.** Write for particulars.

Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

ESTABLISHED 1802

THORBURN'S SEEDS

Send for special low prices on

DUTCH HYACINTHS

for forcing or bedding, and

LILIUM LONGIFLORUM.

J. M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

Strictly New England GROWN SEEDS.

SPECIALTIES—Onion (Southport Globes), Turnip Seed and Sweet Corn, Beet, Parsnip, Carrot, Cabbage. We can answer all questions without flinching as to quality and where grown.

The E. B. CLARK CO., Milford, Conn.

RAFFIA NATURAL COLORED
VAUGHAN'S SEED STORE,
CHICAGO and NEW YORK.

TELEGRAPH CODE

OF THE

AM. SEED TRADE ASSOCIATION

\$2.00.

In either stiff or flexible cover. ADDRESS ORDERS TO
AMERICAN FLORIST CO., CHICAGO.

A Christmas Problem Quickly Solved

The most Popular Holiday Flowers in the Best Qualities obtainable in the New York Market.

Are Yours IF YOU PLACE YOUR ORDER IN SEASON....

Here are a few of them: American Beauty, Bride, Bridesmaid, Liberty, Golden Gate, Ivory and Meteor Roses in top grades; Lawson, Crane, Prosperity, Roosevelt, Gomez, Lord, Bradt, Norway, Lorna, Le Brun, Cressbrook, Manley, Viola Allen, Floriana and other choice Carnations; Violets, Poinsettias, Lily of the Valley, Roman Hyacinths, Paper White Narcissi, Lilies, Cypripediums, Smilax, Asparagus, Ferns.

If you want to gain new customers every day, good, fresh, carefully packed, promptly shipped stock of the above goods will help you. Ask for No. 1998 Madison Square, on the telephone, or write, or telegraph.

JOHN I. RAYNOR,

49 WEST 28TH STREET,

NEW YORK CITY.



PETER REINBERG

51 Wabash Ave.
CHICAGO, ILL.

The largest range of greenhouses in America and all

IN FULL CROP FOR CHRISTMAS.

We are Headquarters on Carnations and Roses of all kinds, including besides the staples
CHATENAY, LIBERTY, SUNRISE.

CHRISTMAS PRICE LIST. IN EFFECT DECEMBER 20th.

BEAUTIES		Per doz.			Per 100			Per 100
Long stem.....	\$12.00	Liberty, good.....	\$15.00 to	\$20.00	Carnations.....	4.00 to	5.00	
36-inch stems.....	10.00	Liberty, medium.....	8.00 to	12.00	Carnations, fancy.....	6.00 to	8.00	
30-inch stems.....	8.00	Brides and Maids, good.....	10.00 to	15.00	WE OFFER A LIMITED QUANTITY OF EXTRA FANCY STOCK AS FOLLOWS:			
24-inch stems.....	6.00	Brides and Maids, medium.....	6.00 to	8.00	Chatenay.....	\$20.00		
20-inch stems.....	5.00	Chatenay and Sunrise.....	10.00 to	15.00	Sunrise.....	20.00		
15-inch stems.....	4.00	Perle.....	6.00 to	10.00	Bridesmaid.....	20.00		
12-inch stems.....	3.00	Ivory.....	10.00 to	15.00	Bride.....	20.00		
Short stems.....	\$1.50 to 2.00	Golden Gate.....	10.00 to	15.00	Liberty, extra long stem..	\$35.00 to	50.00	
		Golden Gate, medium.....	6.00 to	8.00				

ROSES, Our Selection, - - - \$6.00 per Hundred.

Short to Medium Stems, all Fresh Stock.

No Charge for Packing.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Providence, R. I.

TRADE QUIET.—ZERO WEATHER SHUTS OFF TRANSIENT BUSINESS.—HOLLY TRADE IN HANDS OF PRODUCE DEALERS.

The week of December 1 found trade easing off, Friday and Saturday being particularly quiet days. The sudden severe cold since then has suspended the loose flower demand and increased the call for funeral designs. Stock continues scarce, especially carnations and violets. John Macrae was about the last to clean up on chrysanthemums, but they were moved with a rush when the trade needed them for designs. J. G. Jensen still holds over a good lot for Christmas sales.

Good holly is now on sale at various produce dealers' at fair rates. These people handle a good quantity of Christmas greens and have greatly diminished the shipment of holly from the New York and Boston wholesale florist houses. In a way they have also cheapened the call for it, and the retail profit is not satisfactory. M. M.

Minneapolis.

STOCK SCARCE AND PLENTIFUL ITEMS SELL WELL.—LOCAL NOTES OF VARYING INTEREST.

Stock has been limited the past week, except carnations, which are about in goodly numbers but find ready sale on account of other shortages. Tea roses are showing the effect of the dark weather, their color being very inferior, and Beauties and violets are hardly to be had. The call for greens has commenced.

A. S. Swanson had a very attractive display of maidenhair ferns and Roman hyacinths in his window last week.

H. Dunn, of Chicago, is here to take charge of the cut flower store of Northrup, King & Company.

H. E. Philpott, of Winnipeg, Manitoba, was in the city buying supplies for Christmas. C. F. R.

BELLEVUE, O.—I. Husbands has his stock in particularly fine shape this year, a house of carnations being especially noticeable.

CONNELLSVILLE, PA.—P. R. DeMuth & Sons have a nice stock and are building up a good trade, both locally and in surrounding towns.

SALT LAKE CITY, UTAH.—The city council has authorized the solicitation of plans and estimates for a new greenhouse at Liberty Park to cost not more than \$5,000.

NEW FANCY CARNATION "TIGER."

Color. orange, striped pink, effect of Sunrise rose.
Size. 2½-3½-inch, stem 2-3 feet, straight as a wire.
Habit every shoot going to flower at once, dark green foliage; no supports necessary.
Calyx, extra strong; seldom splits.
Flower, type of Mayol Pingree.

Notes. It is an early, continuous and free bloomer. Shown and won prizes at Kansas City, New York and Baltimore (this fall).

Be your own judge. Sample ½ doz. for 50c prepaid. The 50c you can deduct from your first order.
12 for \$1.50; \$10.00 per 100; \$75.00 per 1000. 25 at 100 rate, 250 at 1000 rate. 10, 0 ready Jan. 1st.

**J. D. THOMPSON CARNATION CO., Joliet, Ill.,
Western Agents.**

HENRY EICHHOLZ, Waynesboro, Pa.

MURPHY'S WHITE

CARNATION, ROOTED CUTTINGS, \$6 per 100; \$50 per 1000; \$40 per 1000 in 10,000 lots.

CUT BLOOMS of carnations in quantity.

WM. MURPHY,

Phone Main 4411. 130 E. 3rd St., Cincinnati, Ohio.

YELLOW EATON

GOOD JUDGES pronounce it the most valuable commercial Chrysanthemum to be introduced in the spring of 1903. Its color captivates everybody and it has all the other good qualities of Timothy Eaton, without the coarseness sometimes attributed to that variety. \$5.00 per doz.; \$30 per 100. Delivery of young stock, March 1, 1903.

ROBERT CRAIG & SON, Market and 49th Streets,
PHILADELPHIA, PA.

PRELIMINARY LIST OF

New Chrysanthemums

and other **NOVELTIES**

NOW READY.

Will be pleased to mail to these interested.

Nathan Smith & Son
ADRIAN, MICH.

CHRYSANTHEMUMS Large Strong Stock Plants from Bench.
Bentley, 35c each; \$3.00 per doz. C. Holst, 25c each; \$2.00 per doz. Honesty, 25c each; \$2.00 per doz. Prosperity, 25c each; \$2.00 per doz. Providence, 25c each; \$2.00 per doz.
T. Eaton, Appleton, Maud Dean, Childs, Mrs. Chamberlain, Liberty, Chadwick, Orizaba, Lady Roberts, Golden Wedding, Golden Beauty, Bruant, \$1.50 per doz.; \$8.00 per 100.
Mrs. E. D. Smith, White Bonaffon, R. H. Pearson, Bergmann, Willowbrook, Ivory, October Sunshine, Merry Monarch, The Queen, Mrs. J. Jones, Bonaffon, Lucie Faure, Niveus, Eclipse, \$1.00 per doz.; \$6.00 per 100. 6 plants of one variety at doz. rate; 25 at 100 rate.
H. WEBER & SONS, OAKLAND, MD.

Strong 'Mums

STOCK PLANTS FOR SALE.

175 Bonaffon,	150 Appleton,
200 Eaton,	125 Philadelphia,
175 Robinson,	100 Vivian-Morel,
50 Bergmann,	50 Glory of Pacific,
50 October Sunshine,	50 Chas. Davis,
	50 Geo. Childs.

JOSEPH LABO, JOLIET, ILL.

Please mention the American Florist when writing.

Mum Stock Plants

Robinson, Merry Xmas, Wanamaker, Monrovia, Bassett, Lincoln, Whilldin, Murock, Kulb, Bonaffon, Childs, Halliday, Appleton, Sunderbruch, Perrin, Pacific, \$4.00 per 100.

Eaton and Chadwick, \$6.00 per 100.

JOHN BROD, 349 W. North Ave., CHICAGO.

ENGLISH IVY, and **VINCA VARIEGATA,** Rooted Cuttings, 80c per 100. **IVY LEAVES,** 20c per 100; \$1.50 per 1000, delivered. **H'ORANGE OTAKSA,** field-grown for 6-inch or 8-inch pots, 10c; for ¼-barrel tubs, 15 or 20 branches, 50c. Cash.

J. H. DANN & SON, Westfield, N. Y.

'MUM

Stock Plants, Extra Fine.

TIMOTHY EATON,	GOLDEN WEDDING,
XENO,	OCTOBER SUNSHINE,
WHITE JONES,	YELLOW JONES,
SNOW QUEEN,	COL. APPLETON,

\$8.00 per 100; \$1.50 per doz.

BASSETT & WASHBURN,

76-78 Wabash Avenue, CHICAGO, ILL.

Please mention the American Florist when writing.

Stock 'Mums.

THREE BEST EARLIES:

MONROVIA, Yellow.

Glory of Pacific Pink.

White **POLLY ROSE**

Also all other commercial varieties at \$5.00 per 100. Cash please.

Carl Hagenburger, W. Mentor, Ohio.

SPECIAL SALE OF

PLUMOSUS

2,000, 2x2½-inch. 1,000, 2½x-3-inch.
500, 4x4-inch. State how many wanted.

Write **GEO. A. KUHL, PEKIN, ILL.**

REDUCED RATES FOR CHRISTMAS AND NEW YEAR HOLIDAYS.

The Nickel Plate Road will sell tickets December 24, 25 and 31, 1902, and January 1st, 1903, at rate of a fare and a third for the round trip, to any point located in Central Passenger Association territory, good returning to and including January 2nd, 1903. Pullman service on all trains. Individual Club Meals, ranging in price from 35c to \$1.00, served in dining cars. Address John Y. Calahan, General Agent, 113 Adams St., Chicago, for particulars. Chicago city ticket office, 111 Adams St.; Depot, Harrison St. and 5th Ave.

Poinsettias.

We will be in receipt of a large supply of these **Christmas Decorative Flowers**, and they are in fine shape and will please the most critical customers. We have graded them as follows:

MEDIUM, flowers and stem medium, - - per dozen, \$3.00; per 100, \$22.50.
 SELECT, flowers large, stem medium, - - per dozen, \$4.00; per 100, \$30.00.
 EXTRA SELECT, largest flowers, longest stems, per dozen, \$5.00; per 100, \$40.00.

Conditions look promising to a large stock of

AMERICAN BEAUTIES (long especially.)

BRIDES, MAIDS,

GATES, GOULDS,

LIBERTY, METEORS,

PERLES, VIOLETS,

FANCY CARNATIONS,

MEDIUM CARNATIONS,

HARRISII,

VALLEY,

ROMANS,

NARCISSUS,

ADIANTUM,

SMILAX,

ASPARAGUS,

WILD SMILAX,

GALAX,

WINTER BERRIES.

*You wont
make a mistake
if your order
is with the
"Old Reliable."*

We are out to please!! Let us have the order!!

E. H. HUNT,

**76-78 Wabash Avenue,
CHICAGO.**

ESTABLISHED 1878.

PHONE CENTRAL 1751.

Washington, D. C.

COAL FAMINE IS RELIEVED.—REGULAR BUT LIGHT SUPPLIES NOW ARRIVING.—PERSONAL AND TRADE NOTES.

Wm. F. Gude was instrumental to a great extent in breaking up the coal blockade, visiting Philadelphia twice in the last few days, but the retailers are still holding up the prices and only dealing out fuel in homeopathic doses. Anthracite is cheaper than bituminous. The former is now coming in at the rate of fifty to seventy-five carloads a day.

A new flower store, The Rosery, incorporated, has been opened at 1110 F street N. W., adjoining the Columbia Theater. It has been fitted up very neatly and from all appearances will make a good stand. C. W. Wolf is in charge.

December 5 the first snow storm of the season passed over Washington and the following few days were cloudy, followed by a cold wave.

Fred. W. Miller, with A. Gude & Bro., is at Garfield Hospital, suffering from typhoid fever.

Visitors: Geo. W. Park, Libonia, Pa.; B. Eschner, of M. Rice & Company, Philadelphia, Pa. P. G.

Lowell, Mass.

BUSINESS GOOD.—SUPPLIES SHORTENED BY COLD WEATHER.—FUEL STILL VERY SCARCE.—FAMOUS OLD PLACE TO CLOSE.

The most important event of the past week was the change in the weather, from about summer heat to zero, with plenty of snow. It has hampered business a great deal, especially those who had palms out on decorations. Some of the growers were caught napping and in some instances it was necessary for growers to help others to prevent them from freezing up. Some are still burning wood, being unable to buy coal.

The greenhouses established more than a quarter of a century ago by Edwin Sheppard will soon be a thing of the past. It was once the finest commercial place in all New England, but the houses are being dismantled and preparations being made to close them up.

The extremely cold weather has affected the price of stock, shortening up the supply considerably. Business has been good, owing to many funerals. The green goods men are very much in evidence. A. M.

SEDALIA, Mo.—The Archias Seed Store has made preparations for a much larger Christmas trade than usual.

BATAVIA, N. Y.—Ruestow Brothers, in the town of Greece, lost \$2,700 on November 30 by the explosion of a boiler.

NIAGARA FALLS, N. Y.—The King Construction Company has closed a contract for four new houses in Denver and is already shipping the material.



The Florist's Emblem.

AMINIATURE SPRINKLING POT

A beautiful Charm or Art Cabinet Ornament.

Gold or Silver Plate.

Prices by Mail, Postage Prepaid:

GOLD PLATED.		SILVER PLATED.	
One	20c.	One	10c.
Two	35c.	Two	20c.
Three	50c.	Three	25c.
Five	75c.	Five	35c.

Special Prices in Large Quantities.

FOR SALE ONLY BY

DOWST BROS. CO.,

Manufacturers Art Novelties.

30 S. Clinton St. CHICAGO, ILL.

Carnation Cuttings

NOW READY.

WE can ship at once well-rooted cuttings of the following varieties, free from disease and first-class in every respect. NONE BETTER and seldom equaled.

WRITE FOR QUOTATIONS AND CATALOGUE.

Mrs. Thos. W. Lawson
Gov. Volcott
E. A. Nelson
Estelle
White Cloud
Mrs. Potter Palmer
Gaiety
Viola Allen
Crane

Golden Beauty
Apollo
Morning Glory
Queen Louise
Stella
Lorna
J. H. Manley
Joost
Enquirer

Gov. Roosevelt
Harry Fenn
Dorothy Whitney
Prosperity
Guardian Angel
Mrs. Higinbotham
Dorothy
Marquis
Cressbrook

J. D. Thompson Carnation Co.
JOLIET, ILLINOIS.

ENCHANTRESS THE GOLD MEDAL WINNER, having defeated all comers at Madison Square Garden and at Kansas City, now reigns supreme.

Having ordered a large quantity, I am still in a position to book orders for February delivery. Don't delay if you want any.

MRS. E. A. NELSON Has proved all we claimed for it—being free and continuous and ahead of its rivals in pink.

Cuttings guaranteed to be absolutely strong and healthy. January and February delivery.

PRICE, \$6 PER 100; \$50 PER 1000.

S. S. SKIDELSKY, 708 N. 16th St., Philadelphia, Pa.

BURBANK'S
Shasta Daisy.

Mailing size plants, \$5.00 per 100; \$40.00 per 1000. 25 at 103 rates, 250 at 1000 rates. Prepaid at above figures. Trade list now ready for 1903.

CALIFORNIA CARNATION CO.
LOOMIS, CAL. U. S. A.

PANSIES

Finest strain of Giant Mixture from best European growers, strong stock for transplanting in cold frames or houses. Price per 100 by mail, 50c; per 1000 by express, \$2. ENGLISH DAISY in colors by mail, per 100, 35c; by express, per 1000, \$2.00. SWIFT WILM by mail, 50c per 100. J. P. FRYER, 10211 Union Ave., Chicago, Ill.

Pansies Worth Raising.

Strong plants, \$4.00 per 1000; \$2.50 per 500; \$1.00 per 100, f. o. b. express here. Cash with order.

CHR. SOLTAU,
199 GRANT AVENUE, JERSEY CITY, N. J.

PANSIFS The Jennings Strain.

Small plants, \$4.00 per 1000, by express. Large plants, ready to bloom, \$1.00 per 100; \$8.00 per 1000. Seed, \$1 pkt.; \$5 per oz. Cash with order. E. B. JENNINGS, Lock Box 254, Southport, Conn. Grower of the Finest Pansies.

PANSIES

Roemer's Superb Prize Pansies.

STRONG, FINE STOCKY PLANTS,
Mixed colors, by mail, 75 cents per 100; \$3.00 per 1000; per 10,000, \$25.00.
Large transplanted plants, in bud and bloom, \$1.25 per 100 \$10.00 per 1000.

CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

MOLLER'S

Deutsche Gartner Zeitung

The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

Moller's Deutsche Gartner Zeitung is published weekly and richly illustrated. Subscription \$3.00 per annum, including postage. Sample copies free.

LUDWIG MOLLER, ERFURT, Germany

Pansy Plants.

MME. PERRET, the finest strain on the market, large plants that will bloom soon at 50c per 100; \$3.50 per 1000; \$30.00 for \$10.00.

J. C. SCHMIDT, BRISTOL, PA.

Notice. Plantsmen wishing to catalogue the great **Shasta Daisy** please correspond with me. I have a large stock for spring delivery.

S. J. GALLOWAY, Eaton, Ohio.

TRAENDLY & SCHENCK,

38 West 28th Street, New York—Four Telephones.

Almost the Youngest **WHOLESALE**
Surely the Busiest **FLORIST HOUSE.**
Fully the Largest

Enterprise and Energy can be witnessed Daily at Our Up-to-Date Place.

FOUR TELEPHONES, so that you may lose no time in giving your orders.

We are a sure thing winner **FOR YOU**, if we handle your stock, or have your orders.

TWO WAGONS to deliver your orders.

A RING on 798 Madison Square connects **AT ONCE** with any one of our **Four Telephones.**

We Handle in Quantities

American Beauty, Bridesmaid, Bride, Golden Gate, Liberty Roses; Carnations, standard and fancy varieties; Violets. You will have to prove that you can beat us on quality.

BULBOUS STOCK, a full line in season.

GALAX, 75c per 1000; inducements by the case.

FANCY FERNS.

TRAENDLY & SCHENCK,
798 Madison Square—4 'Phones. 38 West 28th St., New York.

\$2.00

**POSTPAID TO
Any ADDRESS**



**SAVES MANY TIMES
ITS PRICE**



THE AMERICAN FLORIST COMPANY'S DIRECTORY saves many times its price to every one who catalogues or circularizes the trade. Fully revised to date of publication, it puts the mail only to live names, avoiding waste of postage and printed matter, time and labor.

Contains 418 pages, lists of Florists, Seedsmen and Nurserymen of the United States and Canada by states and towns, also alphabetically; firms that issue catalogues, private gardeners, horticultural societies and much other up-to-date information which makes it a reference book of daily utility wherever a wholesale trade is done.

Published annually by the

American Florist Co.
324 Dearborn St. CHICAGO.

Indianapolis.

SOCIETY MEETS AND PLANS DOUBLE SESSION.—EXHIBITS TO BE REWARDED.—A VISIT TO NEW CASTLE.—VARIOUS NOTES.

The December meeting of the State Florists' Association was very sparingly attended. Wm. Billingsly, John Heidenreich and John Hartje were appointed a committee to make preparations for the annual meeting of the association, which will take place in January. The meeting, as usual, will be held in two sessions. Between the sessions the members will be entertained at supper. Connected with the meeting an exhibition will be held, at which a silver and bronze medal of the Society of American Florists will be awarded for the two most meritorious novelties. Other worthy exhibits will be awarded the certificate of the S. F. A. I. At the last meeting Baur & Smith showed a fine vase of their new pink carnation, Indianapolis.

Nineteen Indianapolis florists visited New Castle December 2. As the weather was very unfavorable, the party visited only the South Park Floral Company. They are full of praise of their treatment there. Carl Sonnenschmidt visited Bentley & Company and says he feels well repaid for braving the rain.

Bertermann Brothers' poinsettias are very fine this year. They also issued a very artistic booklet telling their customers about house plants and cut flowers, how to keep them, when they are in season, and so forth.

The Indianapolis Flower and Plant Company finds that the roses make more blind wood than usual this season. The carnation houses are in very good shape.

Roses are coming on in good shape. Violets are rather scarce, but of very fine quality. Carnations of the best grade are not too plentiful.

H. W. Riemann is having fine success with cyclamens and cinerarias this year. He also has the best looking Cypripedium insigne in this city.

J. J. B. Hatfield is making exploring expeditions around this city in search of a ten-acre plot for a country home.

P. Conway, during an afternoon's hunting trip, bagged twenty-three rabbits and several squirrels.

A. Wiegand & Sons have several hundred Begonia Gloire de Lorraine that could not be better.

Visitors: J. A. E. Haugh, Anderson; Vernon D. Grave, Richmond. H. J.

PLEASANT HILL, Mo.—A. Larsen welcomed a big baby boy into his home last Sunday.

CYCLAMEN

PERSICUM SPLENDENS GIGANTEUM.

Finest strain in the world, ready for immediate shipment, a splendid stock of plants, well budded, from 3-inch pots, \$6.00 per 100; \$50.00 per 1000; from 3 1/2-inch pots, in bud and bloom, \$10.00 per 100; \$90.00 per 1000.

PAUL MADER, East Stroudsburg, Pa.

White CARNATION MARIAN

Just as good to ship as it is to keep at home. Rooted cuttings, \$5.50 per 100; \$45.00 per 1000. Delivery after Jan. 15.

Pips of DORA, any time, \$2.00 per 100. Cash with Order. ISAAC A. PASSMORE, West Chester, Pa. Please mention the American Florist when writing.

CARNATIONS.

100,000 Well Rooted Cuttings NOW READY.

Table listing various carnation varieties and their prices per dozen, 100, and 1000. Includes varieties like Gov. Wolcott, white, Alba, white, Golden Beauty, yellow, etc.

6 at 12 Rates: 25 at 100 Rates: 250 at 1,000 Rates. Unrooted Cuttings One-Half Price.

Asparagus Sprengeri From flats ready, \$1.00 per 100; \$7.50 per 1,000. Cash with order. Express Prepaid.

If cuttings not satisfactory on arrival, return immediately when money will be refunded.

WESTERN CARNATION CO., Loomis, California.

Carnation Gov. Lowndes.

Color, pure white. Size, 3 to 3 1/2 inches in diameter. Calyx, spreading at the top, making it practically non-bursting. Form, the lower or guard petals stand out straight, retaining the full size of bloom. Petals slightly serrated, and beautifully arranged, forming a full, rounded center. Odor, is very sweet and particularly pleasing. Stem, 19 inches to 2 1/2 feet during the season, and always strong enough to carry the large flower erect. Habit, strong and vigorous; thrives well and grows rapidly. Transplants readily, and comes into bloom early, and is not a cropper. It will stand closer planting than most varieties. Productiveness, extremely free flowering. More productive than any other large white. A profitable and high grade commercial variety. Price, \$2.50 per doz.; \$12 per 100; \$100 per 1000. 50 at 100 rate; 500 at 1000 rate.

H. WEBER & SONS, OAKLAND, MD.

Asparagus Plumosus Nanus....

From 5-inch pots, fine, \$3.50 per doz.; \$25.00 per 100.

ASPARAGUS SPRENGERI

good strong, from 5-inch pots, \$1.50 per doz.; \$10.00 per 100.

BEGONIA REX

12 vars., 2-in., 60c per doz.; \$4 per 100.

CENTRAL MICHIGAN NURSERY, Kalamazoo, Mich.

Chicago Carnation Co. Joliet, Illinois.

Carnation Cuttings

We are now booking orders for rooted cuttings. List of varieties and prices sent on application.

The Cottage Gardens, Queens, L. I. Please mention the American Florist when writing.

Order Early

Before You Come Too Late!

Flowering and Decorative Plants for Christmas and New Year.

Azaleas, in bloom, 75c, \$1.00, \$1.25, \$1.50, \$2.00, \$2.50, \$3.00 and \$4.00 each; also by the dozen, 50 Standards of Vervaneana at \$5.00 each; very fine.

Primula Obconica, in bloom, \$1.50 per dozen. Erica Vilmoreana, exceptionally fine, flowered this year, 50c, 75c, \$1.00, \$1.35, \$1.50, \$1.75, \$2.00, each; also by the dozen. Some ready now.

Erica Regerminans, new, very fine, white, tinted lavender, sweet scented, 25c, 50c, 75c and \$1.00 each; also by the dozen and 100. Some ready now.

Erica Fragrans, white with brown center, 75c, \$1.00, \$1.50, \$2.00 and \$2.50 each; also by the dozen and 100. We grow for Christmas this season two 100-foot houses of Ericas. We have a limited stock of Erica Regerminans in full bud which can easily be grown to bloom for Christmas. They are showing color already. For the Japanese little fancy pots, etc., miniature fellows, 3-inch pots, at \$10.00 per 100.

Jerusalem Cherries, well berried and colored, fine bushes, \$1.00 and \$5.00 per dozen. Selected stock, \$6.00 per dozen.

Araucaria Glauca, each \$1.00, \$1.25, \$1.50; also per dozen. Public calls them Christmas trees.

Araucaria Excelsa, each, 75c, \$1.00, \$1.25; also per dozen. Public calls them Christmas trees.

Large Daisy Plants, in bloom, each \$1.50 and \$2.00. Good for filling Conservatories. Also by the dozen.

Boston Ferns, 50c, 75c, \$1.00, \$1.25, each. Fruit-d Orange, only a few at 25c, 75c, \$1.00 and \$1.50 each. Not by the dozen.

SPECIAL NOTICE.

As we have to pack exceptionally carefully to prevent freezing, add one dollar to your order for case and packing up to \$25.00; over that add \$2.00.

Cash must accompany all orders.

Dormant plants of all the above flowering stock can be had also, for parties wishing to grow plants into bloom themselves for later sale. For these we make no charge for packing.

Write for illustrated catalogue, which we will send free of charge.

Palms in all sizes by the 100. Ericas a Specialty.

Anton Schultheis, College Point, Queens Borough, NEW YORK.

Please mention the American Florist when writing.

SPECIAL OFFER FOR SHORT TIME.

Only to make room, extra fine lot

MIXED FERNS

from 2-inch pots, strong and well grown, \$3.00 per 100; \$25 per 1000. All good varieties. Do you want a lot of Cyrtium Falcatum at \$3.50 per 100?

BEARD BROS., 1248 W. Fort St., Detroit, Mich.



THE FOLEY CUP.

This Cup was awarded to us at the late Chicago Exhibition for Best Vase of Roses on exhibition.

WE OFFER A SUPERIOR GRADE OF

CUT FLOWERS FOR THE HOLIDAYS,

Including the leading Staples as well as Novelties.

American Beauties	Per doz.
Long, specials	\$12.00
Long, A 1	10.00
30-inch	8.00
24-inch	6.00
18 to 20-inch	5.00
15-inch	4.00
12-inch	2.50
	Per 100
Brides, Mauds, specials	20.00
" A 1	15.00
" good average	\$8.00 to 10.00
" short	5.00 to 6.00
Gates, Meteors, A 1	15.00
" good quality	8.00 to 12.00
Liberty specials	20.00
" A 1	15.00
" short to medium	6.00 to 12.00

CHRISTMAS Price List.



GIVE US YOUR ORDER EARLY

Carnations, fancy	Per 100
" A 1	\$5.00 to \$6.00
" seconds	4.00
"	3.00
Valley	4.00 to 5.00
Violets, double	2.00 to 2.50
" single	1.50
Stevia	1.50 to 2.00
Poinsettias	25.00 to 40.00
Adiantum	1.00 to 1.50
Sprenger, per bunch, 25¢ to 50¢	
Romans	1.00
Paper Whites	1.00
Smilax	12.00 to 18.00
Asparagus	5.00 to 75.00
Wood Ferns, per 1000	\$2.00

BENTHEY & CO.

GREENHOUSES,
NEW CASTLE, IND.

Wholesale Growers of
and Dealers in
CUT FLOWERS.

Salesroom, 35 Randolph St., Chicago.

Rose Growing in Hawaii.

Donald MacIntyre, superintendent of the Moanalua Gardens, at Honolulu, Hawaii, writes that he has been cultivating roses under glass for four years with quite satisfactory results. Mr. MacIntyre says: "The flowers are finer in texture, larger in size and better colored than those growing out of doors. In a properly constructed glass house during the greater part of the day the temperature is lower than out of doors. The atmosphere can be controlled, the plants protected from wind and rain storms and are beyond the reach of the Japanese beetle.

"It is a well-known fact, however, that roses (teas, not hybrid perpetuals) could be well grown out of doors in the Hawaiian islands were it not for the ravages of what is known as the Japanese beetle, a species of chelolanthe, which will completely strip large rose bushes in two or three nights, and will stand by to take the young leaves as they appear." Mr. MacIntyre further says that his rose house is beetle proof, the roses are grown in pots and do well, LaFrance being one of the leading varieties grown.

GEORGE MORRISON.

Evolution of the Tuberous Begonia.

In the year 1864 Pearce sent home to Messrs. Veitch & Sons, Begonia Boliviensis, in 1866 Pearce followed, and Veitch in the same year, says the *Journal of Horticulture*. Shortly afterwards John Seden (of Veitch's) raised the first hybrid, a cross between B. Boliviensis and B. Veitchii, which was named after him—Sedeni. Chelsoni was another of the earliest hybrids. B. Gloire de Lorraine appeared in 1884 from crossing B. Socotrana with B. Dregei. B. Socotrana and the tuberous begonias have given rise to the winter-flowering race.

WINCHENDON, MASS.—Thomas White has rented the greenhouses of Sidney Fairbank, on Central street, and will conduct his business there this winter.

CARNATIONS

ROOTED CUTTINGS.

- ETHEL CROCKER\$10.00 per 1000
- DOROTHY, NELSON, CRESSBROOK, ENQUIRER, QUEEN LOUISE, ALBA, LORNA, HER MAJESTY, APOLLO, ESTELLE, ADONIS, MORNING GLORY, GAITY, MRS. HIGINBOTHAM, PROSPERITY, ROOSEVELT.

Let me estimate on your orders, and please state how many of each variety will be wanted and when they are to be delivered.

ALBERT M. HERR, LANCASTER, PA.

Miss Louise

Faber

The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink shade, similar to a well colored Bridesmaid rose and average 3 to 3½ INCHES. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for FEBRUARY delivery from now on.

FICK & FABER, SAN MATEO, CAL.

SEEDLING CARNATION, President MCKINLEY.

Winner of the \$100 prize at Kansas City Flower Show in 1901 and 1st on vase of 100 dark pink at Kansas City in 1902. This is what Edwin A. Kanst, one of the awarding judges, said of it: "President McKinley is a splendid flower, the petals are perfect and it is well built. The color is deeper and brighter than the Lawson, and the coloring is more distinct. The peculiar purplish tinge in the Lawson is absent from the President McKinley. It will become a favorite carnation."

This variety, like its parent, Dorothy, is wonderfully free, also very early and an excellent keeper and shipper. Rooted cuttings ready Jan. 1, 1903. Price, \$2 per doz; \$12.00 per 100; \$100 per 1000.

EARLY STRUCK CUTTINGS of all the leading varieties of Carnations; also Chrysanthemums and Roses. We guarantee our stock to be satisfactory. Write for price list.

E. T. GRAVE, Richmond, Ind.

Rooted Carnation Cuttings

NOW READY.

	Per 100	Per 1000		Per 100	Per 1000
Alba, white	\$4.00	\$35.00	Chicot, white	\$3.00	\$25.00
Golden Beauty, yellow	4.00	35.00	Gov. Roosevelt, maroon	2.50	20.00
Cressbrook, white	4.00	35.00	Prosperity, white—splashed pink	2.50	20.00
Mrs. Palmer, scarlet	4.00	35.00	Norway, white	2.00	15.00
Mrs. Higinbotham, light pink	4.00	35.00	Lawson, pink	2.00	15.00
J. H. Manley, scarlet	4.00	35.00	Morning Glory, shell pink	2.00	15.00
Viola Allen, variegated	4.00	35.00	Queen Louise, white	2.00	15.00
Gaiety, fine variegated	4.00	35.00	Crane, scarlet	1.00	10.00
Harry Fenn, crimson	4.00	35.00	Mermaid, salmon, fine	1.00	10.00
Apollo, scarlet	4.00	35.00	Armazindy, variegated	1.00	10.00
Dorothy Whitney, yellow	4.50	40.00	Eldorado, yellow	1.00	10.00
Mrs. Joost, pink	1.00	10.00			

UNROOTED CUTTINGS AT HALF ABOVE PRICES.

TERMS CASH. We prepay express charges. If plants are not satisfactory, on arrival, return at once and we will pay return charges and refund your money. Our cuttings are grown OUT DOORS and rooted WITHOUT HEAT and are therefore strong and hardy and free from disease. SEND US ONE DOLLAR and we will mail you SAMPLES at HUNDRED RATES. Orders booked for future delivery.

Giant Flowering Pansy Plants, mixed, \$3.00 per 1000.

Marie Louise Violets, \$3.00 per 100; \$25.00 per 1000.

ALL CHARGES PREPAID.

LOOMIS FLORAL CO., Loomis, Cal.

The Best White Carnation to Date The Queen

Reaches highest standard in size, form, calyx, stem, productiveness and keeping quality. A sure winner where ever shown. Price per 100, \$10.00; 250, \$22.50; 500, \$37.50; 1000, \$75.00.

Little South Floral Co., So. Natick, Mass. S. J. Goddard, Framingham, Mass.

LILLIAN POND

A Large and Fancy White.

Unlike most fancies it is free and continuous. Starts in to bloom early, sending out large flowers on long stems. It is a strictly fancy flower at all times and commands top notch prices. Order at once and you will not regret it. PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00. Orders booked now for FEBRUARY delivery.

S. J. REUTER, WESTERLY, R. I.

ROSES

We have in 2x2½-inch pots the following varieties of Roses: 3,000 Maids, 2,000 Kaiserins, 9,000 Perles, 400 Golden Gates, 2,500 La France, 350 Pres. Carnots, 250 C. Soupert, 4,000 Ivory, 1,000 Woottons. Get your order in early for shipment.

WRITE GEO. A. KUHL, PEKIN, ILL.

5,000 Rooted Cuttings of

FISHER

For summer bloom, now ready, \$10 per 1000.

JOY & SON CO., Nashville, Tenn.

McKellar & Winterson

XMAS FLOWERS

INDICATIONS are that there will be quite a scarcity in the leading articles. Send in your early orders and they will be properly handled. Our facilities for handling short time orders are unsurpassed.

Xmas Holly Xmas Greens

and all decorative stock. We are prepared to fill all orders, large and small.

- Select Delaware Holly, per case.....\$ 5.00
5 cases..... 22.50
- Select Southern Holly, per case..... 4.00
5 cases..... 18 00
- Fresh Picked Bouquet Green, case..... 5.00
5 cases..... 22.50
- Bouquet Green Wreathing, per 100 yds. 3.00
500 yds., \$13.50; 1,000 yds., 25.00
- Ilex, Red Berries, per case 2.00
5 cases..... 8.00
- Wild Smilax, No. 1 Case, \$2.50; 2 \$3.00; 3 \$3.75; 4 \$4.50; 5 \$5.00; 6 \$6.00.

Write or Wire for Prices on Larger Quantities.

HOLLY WREATHS, GREEN WREATHS, GALAX LEAVES, MAGNOLIA LEAVES, LEUCOTHOE SPRAYS, POINSETTIAS, SMILAX, ASPARAGUS, FERNS, CALIFORNIA PEPPER BERRIES.

For promptness, good stock and fair treatment, send your orders to the leading supply house of the west.

McKellar & Winterson,

45-47-49 Wabash Ave. Tel., Main 1129. CHICAGO.

ELECTROS...

For Catalogue Purposes.

WE have a large assortment of strictly high-class halftones of which we can supply electros suitable for catalogue illustration. If you need anything in this way, state your requirements and we will submit proofs of the illustrations in stock

Price for cash only 15 cents per square inch.

THE AMERICAN FLORIST CO.,
.....324 Dearborn St., CHICAGO.

XMAS

PRICE LIST ON

CUT FLOWERS

Xmas prices take effect on Saturday, Dec. 20, 1902.

EARLY ORDERS ADVISABLE.

	Per doz.
BEAUTIES, 36 to 40-inch stems	\$12.00
" 30 "	9.00 to 10.00
" 24 "	7.00 to 8.00
" 20 "	6.00 to 7.00
" 15 "	5.00 to 6.00
" 12 "	4.00 to 5.00
" Shorts	2.00 to 3.00
Per 100	
BRIDES AND MAIDS, Specials	\$18.00
" " Firsts	\$2.00 to 15.00
" " Seconds	6.00 to 10.00
PERLES, Firsts	8.00 to 12.00
" Seconds	6.00 to 8.00
LIBERTY, Specials	18.00
" Firsts	12.00 to 15.00
" Seconds	6.00 to 10.00
GOLDEN GATE, Firsts	12.00 to 15.00
" Seconds	6.00 to 10.00
METEOR, Firsts	12.00 to 15.00
" Seconds	8.00 to 10.00
CARNATIONS, Fancy	6.00 to 8.00
" Selects	4.00 to 5.00
" Our selection	4.00
VALLEY	1.00 to 6.00
ROMAN HYACINTHS	4.00
NARCISSUS	4.00
VIOLETS, Extra	2.00 to 3.00
" Common	1.00 to 2.00
HARRISH, CALLAS	12.00 to 16.00
BOUVARDIA	3.00 to 5.00
STEVIA	2.00
SMILAX	12.00 to 18.00
ADIANTUM Cuneatum .....	.75 to 1.25
ASPARGUS Plumosus, Sprays	50.00
" Sprays	1.00 to 2.50
ASPARGUS SPRENGERI, Sprays	1.50 to 3.00
COMMON FERNS, per 1,000, \$2.00 .....	.25
GALAX LEAVES, per 1,000, 1.50 .....	.15
MIGNONETTE	3.00 to 8.00
MARGUERITES	1.00 to 3.00
PAPER WHITES	3.00 to 1.00
MAGNOLIA LEAVES	1.00

POINSETTIAS FOR CHRISTMAS.

EXTRA SELECT, longest stems, largest flowers	per doz., \$5.00 to \$6.00
EXTRA SELECT, Fancy stock	1.00
GOOD GRADE	3.00

Order now and secure finest stock at right prices. You cannot afford to be without Poinsettias for Christmas trade.

Prices subject to change without notice.

Hardy Herbaceous Plants.

Japanese Iris, German Iris and Paeonias, Specialties.

Golden Glow, Eulalias, Day Lilies, Hardy Sunflowers, Dragon's Head, Cone Flowers, Boltonias, Sedums and a long list of other valuable kinds in large supply. Please write for lists of varieties and prices; they will probably surprise you.

J. T. Lovett, Little Silver, N.J.

Toronto.

BUSINESS GOOD AND STOCK IMPROVING ALL ALONG THE LINE.—COAL QUESTION STILL A DIFFICULT ONE.—DOINGS OF THE GROWERS AND OTHERS.

We are now in the midst of our usual winter business, enjoying good, steady trade and very cold weather. Stock has improved both in quality and quantity. Brides and Bridesmaids have attained their winter standard and from now on will be well worth the money asked for them. The new price list just issued classes these, with Meteor and Morgan, at \$12 per 100. Beauties have also been picked up and are quoted at \$30 per 100. Carnations continue in good supply. Lawson, with its fine color and rigid stem, is in greatest demand but Prosperity seems favored by the lady customers. This variety has been very productive this season and is no longer an enigma to the growers. Other varieties are all doing well and the plants in full bud much resemble fields of timothy before the mower has been through. Lily of the valley is doing well. Callas are becoming more plentiful and bulbous stock is helping out for funeral work.

Hard coal at \$10 per ton, and only procurable in half-ton lots, is not making things easy for the small grower, with the thermometer at 7° below zero. Most of them are using soft coal slack, which they claim melts away, besides keeping them up all night.

John Burton, of Philadelphia, and John N. May, of Summit, N. J., are visitors here and well pleased with the progress of Canadian establishments, pronouncing the stock in this vicinity the best seen in their travels, which have been extensive of late.

From the appearance of the roses grown by W. L. Lindsay, of Tilsonburgh, he is making rapid strides in this branch of the business. His Liberty, Brides and Bridesmaids are very well grown, having good stems and fine buds.

Carnations from London, from Fred. Dicks, are seen in the city. One of his own seedlings, Rosy Morn, a deep cerise in color, is well liked. His Marquis and Flora Hill are extremely fine.

Louis I. Vair is still shipping some good late varieties of chrysanthemums. Mrs. Jerome Jones, as he grows it, with a good healthy blush, is very desirable and sells on sight.

E. Grainger, of Deer Park, has opened a branch store in Yonge street arcade. It is rather an out of the way place but he expects his good reputation to bring him customers.

There will be a meeting of the Florists' Club in St. George's Hall on Tuesday evening next. This will be an important meeting, for officers will be elected for the coming year.

Harrisii are not yet coming in and there will be very few around for the holidays. Gloire de Lorraine begonias are also scarce and eagerly sought after.

The College Flower Shop is the new name at 445 Yonge street.

Visitors: R. H. Wright, Ottawa, Ont.; Wm. Breitmeyer, Detroit, Mich., and E. Walker, Hamilton, Ont. H. G. D.

Galax.

Wholesale only. Special inducements to retail dealers in 10,000 lots, new stock. Write for prices and terms.

Ferns, Sphagnum Moss, Rhododendron Leaves and Shrubs. Shipping point, Elkin, N. C.

G. W. Smith Florist Co., Laurelbranch, N. C.
Please mention the American Florist when writing.



Order Direct From Headquarters.

New Crop of Bronze and Green

GALAX

\$1.00 per 1000 in 5000 lots.

A No. 1 quality.

Dagger and Fancy Ferns,

\$1.00 per 1000. A 1 quality.

Laurel Festooning, good and full, 5 and 6c a yd. Princess Festooning, made round, 5 and 6c yd. Laurel Wreathes, made good and full at market prices.

Southern Smilax, \$4.00 and \$7.00 per case. Selected stock.

Sphagnum Moss, 50c per bag; \$1.00 a barrel.

All orders by mail, telephone or telegraph will receive our personal attention and prompt delivery. Telephone long distance 2618 Main.

HENRY M. ROBINSON & CO.
32-34-36 Court Sq., Boston, Mass.

Mistletoe

for Christmas and the Holidays.

Write me for prices on large lots for December shipment.

Clyde H. Walker

227 Main St., Oklahoma City, O. T.

GALAX

BRONZE OR GREEN, \$1.00 per 1000; 75c per 1000 in 5,000 lots.

LEUCOTHOE SPRAYS, BRONZE OR GREEN, \$1 per 100.

FANCY FERNS, \$1.50 per 1000.

SOUTHERN SMILAX, per 50 lb. case, \$6.00; per 35 lb. case, \$4.50; per 25 lb. case, \$3.50.

PALM LEAVES, \$1.50 and \$2.00 per 100.

NEEDLE PINES, \$1.50, \$2.00, \$2.50 per doz.

GREEN SHEET MOSS, fresh stock, per bbl. sack, \$2.50.

HOLLY, choice stock, \$4.50 per case 4x2x2.

BOUQUET GREEN, selected, \$6.50 per 100 lb. crate.

AMERICAN MISTLETOE, extra fine, \$6 per 25 lb. case.

LAUREL AND PRINCESS PINE ROPING at market price.

L. J. KRESHOVER, 110-112 W. 27th St., N. Y., Tel. Call 597 Madison Sq.

ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong, 2½-inch, \$3.50 per 100.

SPRENGERI, strong, 2½-inch, \$2.50 per 100.

BOSTON FERNS.

From bench fit for 3, 4, 5, 6, 7 and 8-in., 2½c, 5c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA

Extra fine, 4 to 7-inch pots, only 12c per leaf.

25 FINE RUBBER PLANTS, 3 feet, \$1 each, or the lot for \$20.00. CASH PLEASE.

A. J. BALDWIN, NEWARK, OHIO.

GALAX LEAVES AND

Leucothoe Sprays.

J. G. LOVEN, MONTEZUMA, N. C.

Galax AND Leucothoes.

Selected, Bright and Brilliant.

Wholesale Trade Solicited.....

J. L. BANNER & CO., Montezuma, N. C.

BUCKLEY'S December Special.

Smilax Do you need Smilax? If so, forward your order at once and we will furnish you extra fine 2¼ inch at 50c per 100; \$5 per 1000.

Geraniums The leading and best bedders, Jean Vaud (the pink novelty), \$2.00 per 100. S. A. Nutt (crimson), Alphonse Riccard (scarlet), E. G. Hill, Beaute Poitevine (salmon), Mme. Jaulin, \$1.50 per 100; \$14.00 per 1000.

Verbenas Our 20th Century Collection, 25 new mammoth varieties, all labeled, strong plants from 2¼-inch, \$1.50 per 100, \$12.50 per 1000.

Asp. Sprengeri Strong, 2½-inch, \$2.00 per 100; 2-inch, \$1.25 per 100; \$10.00 per 1000.

Petunias Ten novelties from Dreer's latest sets, strong R. C. \$1.25 per 100.

Feverfew LITTLE GEM, rooted cuttings, 75 cents per 100.
2-in. \$1.25 per 100; 2½-in., \$2.00 per 100.

Marguerites CHRYSANTHEMUM FRUTESCENS, both white and yellow, \$1.00 per 100.

Salvia Two best: St. Louis and Bonfire, 75 cents per 100.

Alyssum Double Giant, strong rooted cuttings, \$1.00 per 100.

The W. T. Buckley Plant Co., Springfield, Ill.

CARNATIONS

20,000 Mrs. Fisher, R. C. and 2-inch.

GERANIUMS

10,000 rooted cuttings and 2½-inch.

Boston Ferns

Any size, from 2½ to 10-inch.

Asparagus

PLUMOSUS, 2½, 3 and 4-inch.

SPRENGERI, 2½, 3 and 4-inch.

Write GEO. A. KUHL, PEKIN, ILL.

Primroses

Per 100
CHINESE, single, mixed, 2¼ in. pots.....\$1.50
ASP. PLUMOSUS, 2¼-inch pots..... 3.00
GERANIUMS, 10 varieties, 2-inch pots..... 2.50
PANSY PLANTS..... \$2.50 per 1000.

CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

CHOICE ASPARAGUS PLUMOSUS

for Xmas, 4-in. fine, \$15 per 100; 5-in., \$25 per 100.

STOCK Chrysanthemums, \$5 a 100; 75c a doz. Well furnished with cuttings.

WHITE: Fitzwygram, Bergmann, Queen, Robinson, Ivory, Jones. **YELLOW:** Whildin, Bonnafon, Wedding. **PINK:** Pacific, Morel, Perrin, Maud Dean. Special and scarce kinds—Chadwick, white; Childs, red; Appleton, yellow, \$6 per 100; 75c per doz. W. H. CULLETT & SONS, LINCOLN, ILL.

FERNS.

2¼-inch Mixed Ferns..... \$3.00 per 100 Cash
2½-inch Dracæna Indivisa..... 3.00 per 100 or
25 Mixed Ferns, prepaid..... 1.00 C.O.D.

WM. A. CLARK & SON 44 Boyd Street, Watertown, N. Y.

\$2.50 PER 1000. This offer good two weeks only to make room. Bargains.

GIANT PANSIES, fine stocky plants, in varieties equal to any.

REFX BEGONIAS, 15 varieties, fine, 2-inch, \$3.50 per 1000.

DOUBLE DAISIES Snowball, Giant, Longfellow. Satisfaction Guaranteed. Cash.

BYER BROS., Chambersburg, Pa.

GROWERS! RETAILERS!

I have the Facilities to take care of you both.

GROWERS!

Ship your Flowers to me. Have always room for more.

RETAILERS!

Place your orders with me and you need not worry about them not being filled properly.

Positively all Seasonable Flowers and Novelties can be had at

ALEX. J. GUTTMAN'S,

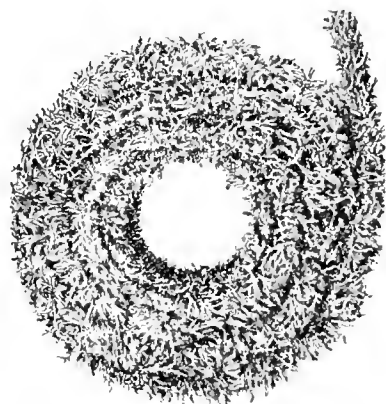
TELEPHONE 1738 MADISON.

52 WEST 29TH STREET, NEW YORK.

Please mention the American Florist when writing.



VAUGHAN'S XXX Holly MISTLETOE BOUQUET GREEN WREATHING



Best qualities and lowest market prices.

Write or wire. Special catalogue free.

VAUGHAN'S SEED STORE, Chicago AND New York

Please mention the American Florist when writing.

BOUQUET GREEN

Best quality at lowest rates. We gather our own GREENS and bring by our own boat direct. Also CHRISTMAS TREES.

Northern Michigan Evergreen Nursery,
SCHOONER TRUMAN MOSS, S. W. Cor. Clark St.
H. Schuenemann, Capt Bridge, CHICAGO.

M.L. Henderson OF LAURELBRANCH, N. C.

is located in the mountains of North Carolina, where as fine a galax leaf grows as grows in the world (green or bronze). Price given on application. Wholesale trade solicited.

Please mention the American Florist when writing.

Xmas Greens

FANCY FERNS, \$1.50 per 1000.
LAUREL WREATHING, good bright Laurel, hand made, wrapped with wire, \$3.00 per 100 yds. Cash with order. Satisfaction guaranteed.

L. POPE & SON, Florists, Barnsboro, N. J.

CHRYSANTHEMUMS, Stock Plants. White—Ivory. Mrs. Robinson, Mrs. J. Jones; Pink—Mrs. Perrin, Helen Bloodgood; Yellow—Modesto, Jones, Lincoln, \$1 per doz; \$8 per 100. Col. Appleton and Timothy Eaton, \$1.50 per doz.; \$12.00 per 100.
Seattle Floral Co., 4th and Denny Way, Seattle Wash.

SOUTHERN HOLLY,

Well-berried, per bbl. containing 25 lbs. \$1.25.

WILD SMILAX, case containing 50 lbs. \$2.00.

F. & S. LEE, MARION, ALA.

WILD SMILAX RUSHED!

When you are rushed, for \$2.00 per 50 pound case. Cash.
AI BERRIED HOLLY, \$2.00 per 75 pound case.
SABAL PALM LEAVES, \$2.50 per hundred.
SABAL PALM CROWNS, \$2.50 per dozen.
LONG NEEDLE PINES, \$5.00 per hundred.
MAGNOLIA SPRAYS, \$5.00 per cwt.

SOUTHERN WILDWOOD CO., Garland, Ala.

FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)
Write, Wire or Phone the Introducers,
Caldwell The Woodsman Co., Evergreen, Ala. or their agents: L. J. Kreshover, New York; J. B. Deamud, Chicago; H. Bayersdorfer & Co., Philadelphia; W. F. Kastling, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vall Seed Co., Indianapolis.

Cincinnati.

SYMPATHY FOR A CRAFTSMAN IN SORROW.—TRADE GOOD AND STOCK SHORT OF THE DEMAND.—A FINE DECORATION.—NOTES.

Mrs. John Lodder, of Hamilton, O., passed away on Monday, after a lingering illness. The funeral took place Wednesday and quite a number of the craft from this city attended. Mrs. Lodder was always interested in anything that pertained to gardening and nothing was too much for her, if it helped to elevate the business. Much of Mr. Lodder's success is due to her efforts, and her loss is a sad blow. The floral tributes at the funeral filled an entire room. The Cincinnati Florists' Society sent a fine crescent wreath and bunch.

Trade is very good and there is not enough stock for orders. The demand is for roses, carnations and violets, of which there are not near enough to go around. The stock received, however, is very good in quality. Bulbous stock is plentiful, such as Romans and Paper Whites. Lily of the valley was a little scarce, owing to the fact that George & Allan were rushed on orders for it. This firm has also been sending in some exceptionally good *Harrisii* lilies, which are always sold in advance.

A. Sunderbruch's Sons had a large dinner at the Queen City Club last Saturday, using 1,400 American Beauties, which of course had to come from Chicago. Good judges say that it was the finest decoration ever put up at this fashionable club.

J. A. Peterson left for Washington Tuesday. He intends to visit Baltimore, Philadelphia and New York before returning.

Martin Reukauf, of Philadelphia, was in town this week. D.

MOUNDSVILLE, W. VA.—The greenhouse and attached workroom at the penitentiary were destroyed by fire December 6.

SPRINGFIELD, MASS.—Hitchings & Company are building a fine iron frame conservatory here for Dr. Perrine.

Plants FOR THE Holidays

ARAUCARIA EXCELSA. We have the largest stock in the country, May importation, raised from top cuttings only. 5½ to 6-inch pot plants, from 20, 22, 23, 24 and up to 26 inches high, 3, 4 and 5 tiers, 70c, 75c, 80c, 90c and \$1 each. Our specimens are perfect beauties, as broad as they are high. 6-inch pots, 5 to 6 tiers, very large, prices very low, for we must move them to make room for Easter plants, \$1, \$1.25, \$1.50 to \$1.75 each.

A BIG MISTAKE you make if you try another firm, because we are specialists and are large importers and carry strictly the largest and cheapest stock of *Araucaria Excelsa*.

AZALEAS for Christmas, in bud and bloom, are showing color now and will be right for Christmas. Only large, healthy plants, which will force successfully, no small ones. *Vermiana*, Simon Mardner, double pink; *Deutsche Perle*, double white. 60c, 75c and \$1 each.

KENTIA BELMOREANA and **FORSTERIANA**, 6-inch pots, first-class stock only, 3 to 4 years old, from 25 to 36 inches high, only 75c to \$1 each.

FICUS ELASTICA, 6-inch pots, \$3, \$4 and \$5 per dozen; specimens 36 inches high, \$6 per dozen.

CHINESE PRIMROSES, very bushy, in bloom and bud, only \$1.80 per dozen; 4-inch, also large and bushy, at the rate of \$7 per 100.

CALLA LILIES, 6-inch pots, 25 inches high, 20c.

ORACAENA BRUANTI, 25 inches high, green and full of leaves from top to bottom, \$5 per dozen.

BEGONIAS in variety, 6-inch pots, \$3 per dozen; 4-inch pots, \$1.20 per dozen.

Cash with order please. To save express mention if pots to be taken off.

Godfrey Aschmann,

WHOLESALE GROWER AND IMPORTER OF POT PLANTS,

1012 Ontario Street, PHILADELPHIA, PA.



BOSTON FERNS 5-in. pots, \$3.00 per doz.
6-in. pots, 5.00 per doz.
6-in. strong 6.00 per doz.
7-in. pots, 7.20 per doz.

ASPARAGUS PLUMOSUS NANUS, 4-in. pots, fine plants, \$1.50 per doz.
4-in. pots, extra select, \$2.00 per doz.

FERN BALLS furnished with leaves, \$5.00 per doz.

FERNS FOR DISHES 2-in. pots, good varieties, assorted, \$3.00 per 100.

WRITE FOR LIST.

The GEO. WITTBOLD CO.

1657 Buckingham Place, Chicago.

B. & A. SPECIALTIES

AZALEAS We have 10,000 from which to select your stock. Place orders at once.

RHODODENDRONS for forcing. Finest stock ever imported. Write for prices.

BOBBINK & ATKINS, Rutherford, N. J.

500,000 VERBENAS THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 60c per 100; \$5 per 1000; \$45 per 10,000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, BLOOMSBURG, PA.

Mushroom Spawn



Frequent importations from England. Always fresh and lively.

CARNATIONS

Strong, healthy plants, grown on high land.

	100	1000		100	1000
Portia.....	\$4.00	\$35.00	Eldorado....	\$4.00	\$35.00
Scott.....	4.00	35.00	Daybreak...	4.00	

J. J. Styer, Concordville, Pa.

GERANIUMS Rooted Cuttings

HETERANTHE	Big	100	\$1.25	1000	\$10.00
BUCHNER	lot		1.25		10.00
VIAUD	now		2.00		15.00
CASTELLANE	ready		2.00		15.00
PERKINS			2.00		15.00
POITEVINE			2.00		15.00
LANDRY			2.00		15.00
RICCARD			2.00		15.00
S. A. NUTT			1.25		10.00

ACTEON, LA FAVORITE, LA PILOT, BONNOT AND CASTRIS, \$1.50 per 100.

ALBERT M. HERR, LANCASTER, PA.

PALMS.

HOME-GROWN, FINE, CLEAN STOCK; GROWN COOL.

Write for Price List. J. B. HEISS,

The Exotic Nurseries, DAYTON, OHIO.

JOSEPH HEACOCK,

WYNCOTE, PA.

GROWER ARECA LUTESCENS, KENTIA BELMOREANA, COCOS WEDDELIANA.

A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

KENTIA *Belmoreana* and *Forsteriana*, extra clean and well grown plants, 2½, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

REX BECONIA, 2 and 3-inch, \$4 and \$6 per 100.
BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.

ASPARAGUS Plumosus, 2-inch, \$5; 3-inch, \$8 Sprenger, 2 inch \$3; 3 inch, \$5, per 100.

DRACAENA INDIVISA, 4, 5-in., \$10, \$25 per 100

ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100

CAMPBELL VIOLETS, 3-inch, \$4.00 per 100.

VINCA VAR., 3-inch, \$4.00 per 100.
Chinese Primrose, 3-in., \$5; 4-inch, \$8 per 100.

Cut Rate on GERANIUM CUTTINGS.

Single Grant, 75c per 100.

S. A. Nutt, Double Grant, La Favorite, Bonnot, \$1.00 per 100.

Jaulin, Poitevine, Riccard, Mrs. E. G. Hill, Frances Perkins, \$1.25 per 100. Cash or C. O. D.

GEORGE EMMANS, NEWTON, N. J.

Geraniums ROOTED CUTTINGS.

S. A. Nutt and La Favorite, \$1.10 per 100; \$10.00 per 1000. Healthy and well rooted. Will prepay express in United States for 15c per 100; \$1.00 per 1000.

S. A. Nutt from 2 or 2½-inch pots, \$2.00 per 100; \$18.00 per 1000.

ALL THE ABOVE READY TO SHIP. CASH WITH ORDER.

Des Moines Plant Co.,

513 38th Street, Des Moines, Iowa.

.....If your.....

Business Methods

are right you can make a profit on an advertisement here.

Dreer's Special Offer of Decorative Plants for the Holidays

Our stock of Decorative Plants, especially our Palms have never been in finer condition, all are clean, vigorous, healthy plants of good dark color which will sell on sight and we are certain will please you.

Palms.

ARECA LUTESCENS.

3-in. pots, 12 to 15 inches high, 2 plants in a pot. \$1.25 per doz.; \$10.00 per 100
4-in. pots, 15 to 18 inches high, 3 plants in a pot. 2.50 per doz.; 21.00 per 100
5-in. pots, 18 to 24 inches high, 3 plants in a pot. 5.00 per doz.; 40.00 per 100
6-in. pots, 28 to 30 inches high, 3 plants in a pot. 1.00 each; 12.00 per doz.
10-in. pots, 42 to 48 inches high, 3 plants in a pot. 6.00 each; 70.00 per doz.

COCOS WEDDELIANA.

3-in. pots, fair plants, 10 to 12 inches high.....\$2.00 per doz; \$15.00 per 100

KENTIA BELMOREANA.

The two smaller sizes will be found useful as center plants for Fern dishes.
2 1/4-in. pots, 4 leaves, 8 to 10 inches high.....\$1.50 per doz.; \$12.00 per 100
3-in. pots, 5 leaves, 12 to 15 inches high..... 2.50 per doz.; 20.00 per 100
4-in. pots, 5 to 6 leaves, 15 to 18 inches high..... 4.50 per doz.; 35.00 per 100
6-in. pots, 5 to 6 leaves, 24 inches high..... 1.00 each; 12.00 per doz
6-in. pots, 6 leaves, 24 to 28 inches high..... 1.25 each; 15.00 per doz.
6-in. pots, 6 to 7 leaves, 28 to 30 inches high..... 1.50 each; 18.00 per doz.
7-in. pots, 6 to 7 leaves, 31 to 32 inches high..... 2.00 each; 24.00 per doz.
7-in. pots, 6 to 7 leaves, 32 to 36 inches high..... 2.50 each; 30.00 per doz.

KENTIA FORSTERIANA.

Our stock of Kentia Forsteriana is in an unusually fine condition; the smaller sizes being remarkably stocky and fine for retailing; this includes up to plants at \$2.50 each; the larger sizes are fine for decorating; the plants offered at \$7.50 and \$10.00 each especially being of great value.

2 1/4-in. pots, 4 leaves, 10 to 12 inches high.....\$1.50 per doz.; \$12.00 per 100
3-in. pots, 5 leaves, 12 to 15 inches high..... 2.50 per doz.; 20.00 per 100
4-in. pots, 5 to 6 leaves, 15 to 18 inches high..... 4.50 per doz.; 35.00 per 100
6-in. pots, 5 to 6 leaves, 30 inches high..... 1.25 each; 15.00 per doz.
6-in. pots, 5 to 6 leaves, 30 to 36 inches high..... 1.50 each; 18.00 per doz.
7-in. pots, 6 leaves, 30 to 36 inches high..... 2.00 each; 24.00 per doz.
8-in. pots, 6 leaves, 42 inches high..... 2.50 each; 30.00 per doz.
8-in. pots, 6 leaves, 48 to 52 inches high..... 4.00 each; 48.00 per doz.
8-in. pots, 6 to 7 leaves, 52 to 54 inches high..... 5.00 each; 60.00 per doz.
9-in. pots, 6 leaves, 52 to 54 inches high, heavy..... 6.00 each.
9-in. pots, 6 leaves, 54 to 58 inches high..... 7.50 each.
9-in. pots, 6 leaves, 60 inches high.....10.00 each.
10-in. pots, 6 leaves, 72 inches high..... 12.00 each.
12-in. tubs, 7 leaves, 7 to 8 feet high.....25.00 each.

LATANIA BORBONICA.

3-in. pots, 5 to 6 leaves, 12 to 15 inches high.\$1.00 per doz.; \$ 8.00 per 100
4-in. pots, 5 to 6 leaves, 15 inches high..... 2.50 per doz.; 20.00 per 100
6-in. pots, 5 to 6 leaves, 15 to 18 inches high..... 5.00 per doz.; 40.00 per 100
8-in. pots, 6 to 7 leaves, 30 inch s high..... 2.00 each; 24.00 per doz.
8-in. pots, 7 to 8 leaves, 36 inches high..... 2.50 each; 30.00 per doz.

PHOENIX CANARIENSIS.

A grand lot of specimen plants in excellent condition for decorative work or for retailing.
11-in. tubs, 3 1/2 to 4 feet high, very bushy and shapely.....\$5.00 each.
11-in. tubs, 4 to 1 1/2 feet high, very bushy and shapely..... 6.00 each.

PLANTS FOR FORCING.

AZALEAS FOR EASTER FORCING.

Orders for Azaleas received before December 21 will be executed at import prices, after this date spring prices will take effect. We can still include 10 per cent of Mme. Van der Cruyssen in assorted lots.

10 to 12-inch crowns, bushy, well budded.....\$ 4.50 per doz.; \$ 35.00 per 100
12 to 14-inch crowns, bushy, well budded..... 6.00 " 45.00 "
14 to 16-inch crowns, bushy, well budded..... 7.50 " 55.00 "
16 to 18-inch crowns, bushy, well budded..... 12.00 " 90.00 "
18 to 20-inch crowns, bushy, well budded..... 25.00 " 200.00 "
20 to 24-inch crowns, bushy, well budded..... 36.00 " 300.00 "

FORCING LILACS.

We offer a fine lot of pot-grown plants, well set with buds, and in prime condition for forcing, \$6.00 per dozen; \$45.00 per 100.

DREER'S PRIZE CINERARIAS.

A fine lot of strong 3-inch pot plants, 60 cents per doz.; \$4.00 per 100.

Miscellaneous Decorative Plants.

ARAUCARIA EXCELSA.

6-in. pots, 18 to 20 inches high, 4 to 5 tiers.....\$1.00 each.
6-in. pots, 20 to 24 inches high, 4 to 5 tiers..... 1.25 each.
7-in. pots, 24 to 26 inches high, 5 to 6 tiers..... 1.50 each.

ARAUCARIA EXCELSA GLAUCA.

6-in. pots, 12 inches high, 2 to 3 tiers.....\$1.00 each.

ARAUCARIA ROBUSTA COMPACTA.

5-in. pots, 10 inches high, 2 to 3 tiers.....\$1.25 each.

AUCUBA JAPONICA.

A fine lot of bushy plants of this useful hardy decorative.
Bushy plants, 12 inches high.....30 cents each; \$3.00 per doz.
Bushy plants, 18 to 20 inches high.....40 cents each; 4.50 per doz.
Bushy plants, 24 inches high.....60 cents each; 7.00 per doz.

PYRAMID SHAPED BOX TREES.

A fine lot of shapely specimens, 30 to 36 inches high, 15 to 18 inches in diameter at base, tapering to a point, \$1.00 each.

STANDARD OR TREE SHAPED BOX.

Nicely shaped little trees with stems 20 to 24 inches high and bushy crowns about 16 inches in diameter. \$1.25 each.

DRACAENA FRAGRANS.

Good plants, 4-inch pots.....\$2.00 per doz.; \$15.00 per 100
Good plants, 5-inch pots..... 3.00 per doz.; 20.00 per 100
Good plants, 6-inch pots..... 4.00 per doz.; 30.00 per 100

DRACAENA SANDERIANA.

Nice plants for centers of fern dishes, 3-inch pots, 5 to 6 inches high, \$2.50 per dozen; \$20.00 per 100.

FIG IS ELASTICA.

4-inch pots, 10 to 12 inches high.....\$3.00 per doz.; \$25.00 per 100
5-inch pots, 15 to 18 inches high..... 4.50 per doz.; 35.00 per 100
6-inch pots, 24 inches high..... 7.50 per doz.; 60.00 per 100

FERN CIBOTIUM SCHIEDEI.

The only Tree Fern worth growing, GRACEFUL, DECORATIVE and as HARDY as a palm, 7-inch pots, \$1.50 each; 9-inch pots, \$3.00 each.

FERN ADIANTUM FARLEYENSE.

A grand lot of plants, healthy and vigorous.
3-inch pots.....\$2.00 per doz.; \$15.00 per 100
4-inch pots..... 5.00 per doz.; 40.00 per 100

FERNS IN MIXTURE FOR FERN DISHES.

2-inch pot plants.....\$3.00 per 100; \$25.00 per 1000
3-inch pot plants..... 6.00 per 100; 50.00 per 1000

PANDANUS VEITCHI.

A fine lot of 6-inch pot plants, \$1.00 each.

PANDANUS UTILIS.

An excellent lot of 6-inch pot plants, 60 cents each; \$7.00 per doz.

HARDY AZALEA MOLLIS.

For early forcing the Mollis Azaleas are gaining favor very rapidly. We offer a nice lot of bushy plants, well set with buds, from 12 to 15 inches high, \$1.50 per dozen; \$35.00 per 100.

DEUZZIAS FOR FORCING.

GRACILIS ROSEA. Strong two-year-old field-grown plants suitable for 6-inch pots, \$1.00 per dozen; \$8.00 per 100.

LEMOINEI. Strong two-year old plants, excellent stock, suitable for 6-inch pots, \$1.00 per dozen; \$8.00 per 100.

JAPANESE FERN BALLS.

New dormant stock expected to arrive during the latter part of this month. Place your order now for prompt shipment as soon as importations arrive.

First-class balls, 7 to 9 inches in diameter.....\$3.25 per doz.; \$25.00 per 100
First-class balls, 5 inches in diameter..... 2.00 per doz.; 15.00 per 100

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA, PA.

Pittsburg.

TRADE ACTIVE AND STOCK IN GOOD SHAPE. —GREENS DELAYED BY FREIGHT CONGESTION.—A VARIETY OF PERSONAL AND TRADE DOINGS.

Cold weather and good business are what we have been wishing for and they are here. Debutant parties are daily affairs and each succeeding debutant receives more flowers than the one of the previous day. This custom brings a great deal of profit to the florists, for each individual investment ranges from \$5 to \$50. Liberty, Beauty, Maid and Morgan are especially fine at present. Harrisii lilies are very scarce. Cattleyas, cypridiums and gardenias continue in demand. Violets are the surest seller we have. Valley is having its run, also, and we have to draw on the east for our supplies of both.

The market stands are packed with holly, laurel and ground pine. Those who handle Christmas trees may have difficulty in securing their consignments, as the great freight congestion still exists at Pittsburg.

John Bader has a fine lot of Gloire de Lorraine begonias and will have a number of azaleas for the holidays.

Loew & Koehrig have secured two buildings for the display and sale of holiday greens.

W. R. Mambeimer, late of Chicago, has taken a position with Mrs. Williams.

Howard Carney is again with the Pittsburg Cut Flower Company.

William Diamond has taken charge of L. I. Neff's Homestead store.

Koerbel Brothers, of Jeannette, Pa., have completed their new house.

Charles Koenig will have a large cut of Harrisii for Christmas.

Sidney Gibbs has re-opened his store in Carnegie. E. L. M.

TROY, N. Y.—On December 9 fire did \$700 damage at the greenhouses of John V. Robbins.

Xmas Blooming Cyclamen

at from 25c to \$1.50 each.

CINERARIAS, 3-inch, \$5.00 per 100.
 ASPARAGUS SPRENGERI, at \$3, \$5, \$7 per 100.
 CAREX JAPONICA, 4-inch, large plants to divide, \$1.50 per doz.
 ASPARAGUS SPRENGERI SEED 50c per 100; \$4.00 per 1000. CHRIST. WINTERICH, *Deliance*, O.

SPECIALTIES

ROSES, from 3-inch pots. **In Best**
CARNATIONS, for all delivery, **Varieties**
CHRYSANTHEMUMS,
SMILAX, VIOLETS.

Prices Low. Send for List

WOOD BROTHERS, Fishkill, N. Y.

BEGONIA GLOIRE DE LORRAINE,
Begonia Light Pink Lorraine,

For July and Later Delivery,
 \$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near
Chestnut Hill, Pa.

There Are Buyers

For all kinds of good stock
 advertised in.....

THE AMERICAN FLORIST

**PALMS, FICUS
 AZALEAS, Etc.**

PALMS.

KENTIA BELMOREANA, 2½-in. pots, \$6.00 per 100; \$50.00 per 1000.

KENTIA BELMOREANA, 3-in. pots, \$12.00 per 100; \$100.00 per 1000.

KENTIA BELMOREANA, 24 to 28 inches, fine bushy plants, \$1.25 each; \$15.00 per doz.

KENTIA BELMOREANA, 30 to 32 inches, perfect condition, \$1.75 each; \$20 per doz.

AZALEAS, 10 to 12-in. crowns, \$35 per 100.

" 12 to 14-in. crowns, \$45 per 100.

" 14 to 15-in. crowns, \$55 per 100.

FICUS ELASTICA.

4-in. pots, heavy strong stock, \$20 per 100.
 5-inch pots, 18 to 20 inches, \$30.00 per 100.

DEUTZIA (Fine for Forcing)

LEMOINEI, 18 to 24 inches, \$8.00 per 100.
 GRACILIS, 18 to 24 inches, \$8.00 per 100.

SPIRAEA JAPONICA, \$3.00 per 100.

COMPACTA, \$3.50 per 100.

FLORIBUNDA, \$4.50 per 100.

CYCAS REVOLUTA, 60c, \$1.00, \$1.25 \$1.50 and \$2.00 each.

BOSTON FERNS, 2½-in. pot, \$3.00 per 100.

PRIMULA CHINENSIS, 2½-in. pots, \$2.50 per 100.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.

"Fumigation Methods"

BY PROF. JOHNSON.

Every Grower needs this book..... Price **\$1.00**

AMERICAN FLORIST COMPANY,
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A. HERRMANN,

✦ Cape Flowers, all colors,
 ✦ Cycas Leaves, Metal Designs,
 ✦ and All Florists' Supplies.

Send for Prices.

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"Chemicals"

for making **LIQUID COMPOST.**
 Dry powders all soluble in water. Composts cost less than ½¢ per gal. Correspondence invited.
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This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs....

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 Liberal terms to florists who take subscriptions.

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 Sample Free. For sale by dealers.



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 MANUFACTURERS OF
COLUMBIA PLANT TUBS
 (PATENTED)
 "The kind that never fall apart."
 If your seedlings don't handle them,
 order of us direct.
 FACTORY AND OFFICE:
 150-160 VEDDER ST., CHICAGO,
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KIFT'S Patent ADJUSTABLE VASE HOLDER

No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$2.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nicked, with three clasps for 5 to 6-inch pots, each \$1.75.

KIFT'S Patent Rubber Capped FLOWER TUBES, 1¼-inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.

Fumigating Kind Tobacco

Powder KILLS ALL APHIS IN ONE NIGHT in a house 10x25 ft., at a cost of 10c. A 5 lb. trial pkg. will cost nothing if you will pay the express charges on it. Our booklet tells of it. Write Dept. C. for it.
The H. A. STOOHOFF COMPANY
 116, 117, 118 West St., N. Y. City

BEST AND Cheapest ALL-ROUND INSECTICIDE on the Market.



For Sale by Seedsmen. For Free Pamphlet Write to The Kentucky Tobacco Product Co., Louisville, Ky.



AZALEAS.

All the best sorts, such as Bernard Andrea Alba, Deutsche Perle, Vervaeneana, Simon Mardner, Mme. Van der Cruyssen, Virginiana, Empress of India, and many others.

PRICE IN ASSORTED LOTS, FOR EARLY ORDERS:

10 to 12-inch crowns, bushy plants.....	\$40.00 per 100
12 to 14-inch crowns, bushy plants.....	50.00 per 100
14 to 16-inch crowns, bushy plants.....	60.00 per 100
16 to 18-inch crowns, bushy plants.....	\$12.00 per doz.
18 to 20-inch crowns, bushy plants.....	25.00 per doz.
20 to 22-inch crowns, bushy plants.....	30.00 per doz.
22 to 24-inch crowns, bushy plants.....	36.00 per doz.

We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

BOSTON FERNS.

Extra choice lot of compact, bushy, pot-grown plants.	
2 1/2-inch pots.....	\$5.00 per 100
3-inch pots.....	10.00 per 100
4-inch pots.....	25.00 per 100
5-inch pans.....	\$40.00 per 100
6-inch pans.....	9.00 per doz.
7-inch pans.....	12.00 per doz.

Chrysanthemums STOCK PLANTS FROM BENCH AND FROM 6-INCH POTS.

Per Dozen, \$3.00.

Gold Mine.
Marian Newell.
Omega.
Opah.
Polar Queen.
Yanariva.

Chito.
Geo. W. Childs.
Intensity.
Ivory.
John K. Shaw.
Mrs. Trenor L. Park.

Per Dozen, \$1.50; per 100, \$10.00.

Mrs. Jerome Jones.
Major Bonnaffon.
Mrs. H. Robinson.
May Forster.
Mrs. O. P. Bassett.
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Superba.
Vivian-Morel.
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White Bonnaffon.
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Yellow Mrs. J. Jones.
Timothy Eaton.
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Anemone & Pompon Vars.

Per Dozen, \$3.00.
Delicatum. Descartes.
Garza. Mary Stuart.
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DORMANT STOCK FOR EASTER FORCING NOW READY.

ROSES

Crimson Rambler. Can supply both own roots and budded—3-year-old, extra heavy.....	Per 100 \$18.00
2-year-old, extra heavy.....	15.00
Hermosa, 2-year, own roots.....	18.00
La France, 2-year, budded.....	18.00
American Beauty, 2-year, budded.....	20.00
Kaiserin, 2-year, budded.....	20.00
Mme. Chas. Wood, 2-year, budded.....	15.00
Paul Neyron, 2-year, budded or own roots.....	18.00
H. P. Roses, standard sorts budded.....	11.00

HYDRANGEAS

Pot Grown for Forcing.	
Thos. Hogg, 12-15 branches.....	\$35.00 per 100
Otaksa, 6-8 branches.....	35.00 per 100

LILACS, Pot Grown for Forcing.....	9.00 per doz.
RHODODENDRONS, Best Named kinds for Forcing.	
12-15 buds.....	12.00 per doz.
Larger sizes from \$2.00 to \$4.00 each.	
AZALEA MOLLIS, 15-25 buds.....	4.00 per doz.

VAUGHAN'S SEED STORE, 14 Barclay Street, New York. 84-86 Randolph St., Chicago. GREENHOUSES, WESTERN SPRINGS, ILL.

Miniature Baby Greenhouse



FOR CROWING SMALL PLANTS.

Two Sizes. { No. 1. 11 1/4 x 12 1/4 and 11 inches high.
No. 2. 15 x 16 1/2 and 15 1/2 inches high.
Are folded up in compact package of about one cubic foot; weight about 18 pounds.

SMALL OR NO. 1 SIZE.	LARGE OR NO. 2 SIZE.
1 house..... \$ 4.50	1 house..... \$ 6.50
2 houses..... 8.50	2 houses..... 12.50
4 houses..... 16.50	4 houses..... 24.00
6 houses..... 24.00	6 houses..... 34.50

SIEBRECHT & SON, NEW ROCHELLE, N. Y.

THE NICKEL PLATE ROAD

will afford its patrons an opportunity to take advantage of low rates for Christmas and New Year holidays, by selling tickets at a fare and a third for the round trip to all points on their line, December 24, 25, 31, 1902, and January 1, 1903. Return limit including January 2nd, 1903. Through service to New York City, Boston and other eastern points. Chicago passenger station, Harrison St. and 5th Ave. For further information, address John Y. Calahan, General Agent, 113 Adams St., Chicago. 66

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TO KILL ALL
Greenhouse Bugs
USE
"NICOTICIDE"
Clean and harmless
as Fumigant or Spray.
Ask your seedsman
for it or write to
**The Tobacco Warehousing
and Trading Co.,**
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THE Gardeners' Chronicle.

A Weekly Illustrated Journal.
ESTABLISHED 1841.

The GARDENERS' CHRONICLE has been for over SIXTY YEARS the LEADING JOURNAL of its class. It has achieved this position because, while specially devoting itself to supplying the daily requirements of gardeners of all classes, the information furnished is of such general and permanent value that the GARDENERS' CHRONICLE is looked up to as the STANDARD AUTHORITY on the subjects of which it treats.

Subscription to the United States, \$4.20 per year. Remittances to be made payable to H. G. COVE. OFFICE:— 41 Wellington St., Covent Garden, London, England.

NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn, N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

The Model Extension Carnation Support.



Flushing, Long Island, Dec. 11th, 1901.

MR. THERON N. PARKER, Brooklyo, N. Y.

Dear Sir— I have used your Wire Carnation Support the last two years, in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.

Very truly,
A. L. THORNE,
La Fayette, Ind.,
July 8th, 1902.

MR. THERON N. PARKER, Harrison, N. J.

Dear Sir:— After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season.

We were much pleased with the simplicity, strength and neat appearance of the support
Yours truly
F. DORNER & SONS Co.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.
Please mention the American Florist when writing.

Belleville, Ill.

SEASON A PROSPEROUS ONE.—STOCK IN VARYING SUPPLY.—GOOD PROSPECTS FOR CHRISTMAS.—VARIOUS NOTES.

All things considered, a glut at one time and a shortage of flowers at another, business has been up to the average, with good prospects for a brisk Christmas trade. Chrysanthemums sold well, the medium sized ones being principally in demand. E. W. Guy has his place in fine condition, his carnations, of which he makes a specialty, doing particularly well. Joost is still the favorite here, being ahead of its rivals in that class. Crane and America are likewise grown profitably, while Flora Hill, White Cloud and Queen Louise are the dependable whites. With the additional two houses built during the past summer, Mr. Guy is well equipped to grow carnations.

A. S. Halstead, of the St. Clair Floral Company, has purchased Wm. L. Hucke's range of houses, which, in addition to his own extensive place, will enable him to grow stock on a large scale. While growing a general stock for the retail trade, carnations receive special attention. Among the different varieties I noticed a white seedling which is a decidedly fine producer, the flowers being pure white and of fine form. Another thing that attracted my attention was the new pink geranium, a seedling of J. M. Garr, and Queen of the West, which from all appearances, bids fair to be a welcome acquisition.

Carnations at Henry Emmons' do not seem to show the effect of the hard times they passed through in the field, having picked up since being housed in a way to surpass all expectations. While the crop, under the circumstances, has not been as heavy as it might have been, they will yield well for Christmas. White Cloud is the favorite here among whites and certainly does remarkably well.

A. G. Fehr reports a good, steady trade. His general stock has never been finer and from all indications he will have a good crop of roses for Christmas. Mr. Fehr grows quite a quantity of Asparagus plumosus plants for the wholesale market.

NOTES.

PURCELLVILLE, VA.—A. B. Davis & Son have their range of 40,000 feet of glass in excellent shape. The carnations never looked better.

FRANZ BIRNSTIEL,

COBURG, GERMANY.

Baskets, Puerto Rico Mats, Cycas, Waterproof Crepe Paper, Glass, China.

LATEST NOVELTIES IN ALL FLORISTS' SUPPLIES.
FOR THE WHOLESALE TRADE ONLY.

WESTERN FLORISTS...
can save money in buying

SUPPLIES

from BARTELDES & CO.,
1521 15th Street, Denver, Colo.
We are now booking orders for Christmas Decorations. Get our prices at once.

Sigmund Geller

Importer and Manufacturer of
FLORISTS' SUPPLIES

Looking for Fall Novelties?
LOTS OF THEM ON EXHIBITION.
108 W. 28th Street, New York.

Please mention the American Florist when writing.

Factory of Metal Wreaths



No. 37. Round Daisy-Leaf Frame, 15 inches diameter, trimmed with purple, white or pink violets. Each, 75c.

No. 80. Round Chrysanthemum-Leaf Frame, leaves shaded, 15 inches diameter, trimmed with St. Joseph lilies and lily leaves. Each, 75c.

No. 1020. Sago Wreaths, trimmed with lilies and grasses, 35c each.

SAGO LEAVES, our own manufacture, the best preparation only and guaranteed a first-class leaf. From 18 to 36 inches long, in lots of 50, \$4.50; per 100, \$8.00.

METAL WREATHS

Sago Leaf. From 15c, up to the latest designs, as standing crosses, standing wreaths, and in fact any design that can be made up on natural flowers will be furnished in any color and style to suit your wishes.

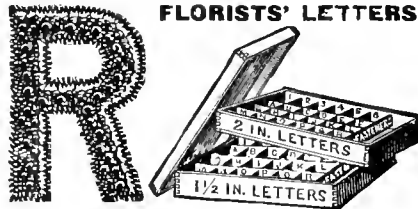
ASK FOR MY ILLUSTRATED CATALOGUE OF METAL GOODS OR FOR MY ILLUSTRATED CATALOGUE OF DECORATIVE PLANTS.

FRANK NETSCHERT

34 Barclay Street, NEW YORK.
187 S. Clark Street, CHICAGO.

Boston Florist Letter Co.

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FLORISTS' LETTERS.



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Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.
Script Letters \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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Importers and Manufacturers,
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Catalogue for the asking.

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HEADQUARTERS FOR HORTICULTURAL SUPPLIES

Of Every Description.

When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

DUNNE & CO., 54 W. 30th St., New York.
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REED & KELLER,

122 West 25th St., NEW YORK.
Importers and Manufacturers of
FLORISTS' SUPPLIES.

Galax Leaves and all Decorative Greens.
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The Best Florists

Buy
Headquarters for the Newest Baskets. Special Stock now being unpacked.

The Best Goods

At
Headquarters for the heaviest and best made Sheaves in the market.

The Best Prices

From
Headquarters for Holiday Specialties. Christmas Bells, Immortells, Inscriptions.

The Best House

In
Headquarters for Cycas Leaves, Cycas Wreaths and choice preserved foliage.

America, Which

Is
Headquarters for everything needed in a first-class florists' business.

H. Bayersdorfer & Co.,

50-56 North Fourth Street,

PHILADELPHIA, PA.

The Florists' Hail Asso'n Pays Losses Promptly.

Reserve fund \$10,000. For particulars address
JOHN G. ESLER, SADDLE RIVER, N. J.

FLORISTS' Refrigerators

Embodying all of the special patented features that have made our household models the Standard of Excellence in refrigerator construction. Exteriors of

Solid Oak, Porcelain, Plate Glass.

INTERIOR LININGS OF Cypress, or One-half-inch Plate Glass, or White Glazed Tile.

They combine beauty with utility and are guaranteed to be entirely worthy and satisfactory in every particular.

Special inducements on present orders for Spring delivery.

WRITE TO-DAY FOR CATALOGUE 10.

THE WILKE MFG. CO., ANDERSON, IND.

It Has Great STRENGTH.

Lucas Glass wears well. A prominent florist who has tried many makes says: "Lucas Glass is the best for strength and evenness of surface."

If you require Glass for Green or Hot Houses write Lucas. It will save you money.

Price lists and illustrated pamphlets gladly furnished on application.

We are also headquarters for Glaziers' Sundries. All grades of Putty, Glass Cutters, etc.

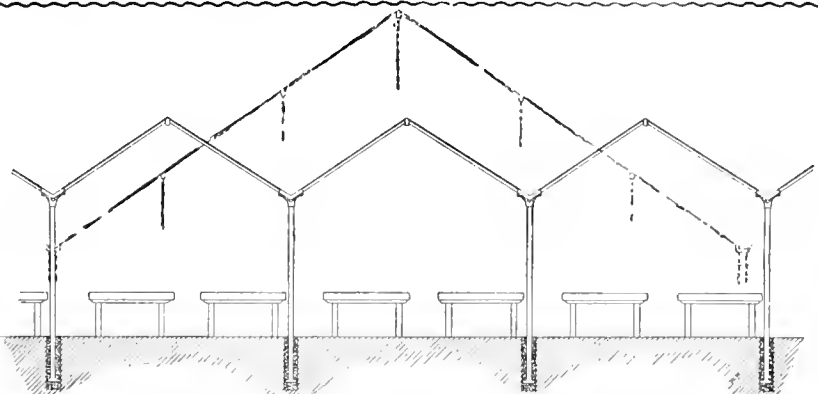
JOHN LUCAS & CO.

320 Race St., Philadelphia, Pa.

Tobacco Stems...

FRESH and STRONG.
Bale of 300 pounds, \$1.50
Cash with order.

W. C. BECKERT, Allegheny, Pa.
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View of a piece of ground 40 ft. respectively 41 ft. 6 in. in width, covered by one roof (old style), and also by three sections of our Patent "Short-Roof" Construction. Compare headroom over benches and number of supports.

SHORT-ROOF GREENHOUSES. (Patented.)

.....WRITE FOR CATALOGUE.....

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Manufacturers of California Red Cedar and Louisiana Cypress Greenhouse Material.

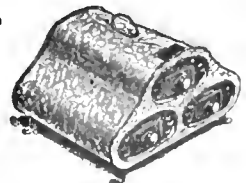
615-621 Sheffield Ave.,

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Florists! INSURE YOUR PLANTS IN WINTER at but a trifling cost.

GET A **LEHMAN WAGON HEATER.**

Over 175,000 in use by Florists, etc. The cost of heating is only **TWO CENTS** for **TWELVE HOURS CONTINUOUS HEAT.** Send for descriptive circular to



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Always mention the.....

American Florist

when you write to an advertiser.

THE KINNEY PUMP.

For applying liquid manure it has no equal. Sent prepaid for \$2.00.

THE HOSE CONNECTION CO., Kingston, R. I.

New Castle, Ind.

PARTY FROM THE METROPOLIS INSPECTS ROSE-GROWING PLANTS.—WELL PLEASED.

On December 2 a party of nineteen Indianapolis florists accepted the invitation of the Messrs. Heller and spent a day in New Castle. The weather was most unfavorable but the party was hospitably entertained, although the tour of inspection was cut short, only one or two of the visitors braving the storm to see the Reinberg & Weiland, Bentley and Dittman places, each of which would well repay a visit, particularly at this season.

The range of the South Park Floral Company was never in better shape. The usual methods of growing have been somewhat departed from this season, with the result that the big autumn cut has been retarded, to come in mid-winter it is hoped, and present indications are very favorable. Of course there was much interest in the new yellow rose, Franz Deegen, which looks a winner.

At noon the visitors were taken in carriages to the hotel, for dinner, followed by a session at pool, billiards and cards.

Buffalo.

BUSINESS BRISK AND STOCK NOT IN LARGE SUPPLY.—PERSONAL AND TRADE DOINGS OF LOCAL INTEREST.

After a hard tussle the B. F. C. had a meeting and outside of a little business the usual seven talked it over and wondered why the attendance was not larger. It could, or should, be answered. Why not make it a subject for a meeting?

Trade is very fair and stock is scarce, for the weather is unfavorable. Violets seem to show the effects of cold and darkness very much.

Miss R. M. Rebstock had a large wedding decoration last week and of course acquitted herself creditably.

L. H. Neubeck has a good lot of stock that will be very salable for Christmas.

J. H. Rebstock is making a fine display of Gloire de Lorraine begonias.

Funeral work has kept the down town stores busy this week.

Recent visitors: Messrs. Walker and McLean, Youngstown, Ohio. Bison.

SANDUSKY, O.—Henry Matern reports that the season finds a brisk demand for floral designs of all kinds.

Sprague Smith Co.
PLATE AND WINDOW GLASS

Greenhouse Glass a Specialty
205 Randolph Street, CHICAGO

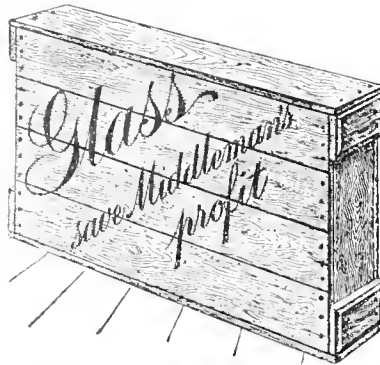
H. M. HOOKER CO.

Window Glass, Paints and Putty,
Greenhouse Glass a Specialty.
59 West Randolph St., CHICAGO.



EVANS' IMPROVED CHALLENGE VENTILATING APPARATUS
WRITE FOR ILLUSTRATED CATALOGUE
QUAKER CITY MACHINE WORKS
1000 N. 1ST ST. PHILADELPHIA, PA.

Please mention the American Florist when writing



"Most perfect results obtained under FRENCH GLASS."

Established 1847.

SEMON BACHE & CO.

7, 9, 11 Laight Street,
NEW YORK.

FRENCH GLASS

Direct shipment from abroad.

MYERS & CO.

Established 1849.

Greenhouse Boilers. Iron Bench Frames.

GREENHOUSE ARCHITECTS And BUILDERS HEATING ENGINEERS.

116 South 17th Street, Philadelphia, Pa.

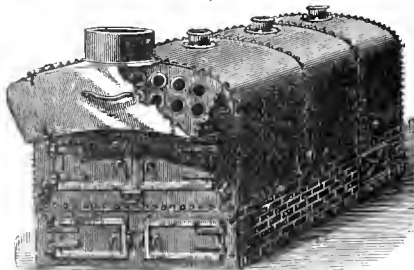
Send for Catalogue and Latest Prices.

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
F. O. PIERCE CO.
170 Fulton St., NEW YORK

GEO. M. GARLAND,
IRON GUTTERS AND POSTS.
Testimonials from leading growers.
Send for Catalogue.
GEO. M. GARLAND, Des Plaines, Ill.

JOHN C. MONINGER CO., CHICAGO, SELLING AGENTS.

KROESCHELL BROS. CO.
IMPROVED
Greenhouse Boiler,
45 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information.

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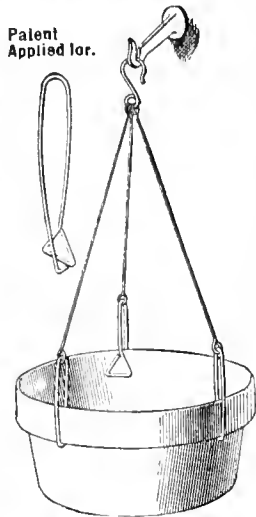
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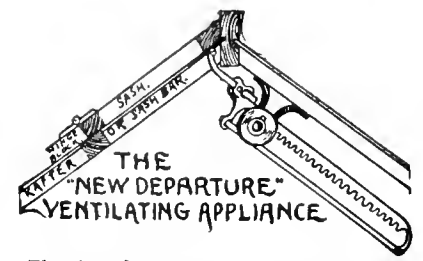
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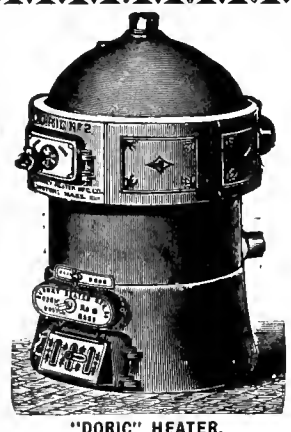


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Vol. XIX.

CHICAGO AND NEW YORK, DECEMBER 20, 1902.

No. 759.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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Annual convention subject to call of executive committee. EDWIN LONSDALE, Chestnut Hill, Pa., secretary.

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Chrysanthemum Sports.

Under heading of "Notes and Comments," signed "E. L.," I notice reference is made to a report of the National Chrysanthemum Society of England relative to chrysanthemum sports. The writer of that article and myself are the best of friends and agree upon most points, but have been at variance for some years on the question of chrysanthemums sporting in form.

From the illustrations given it would be foolish to doubt men so eminent in this branch of the profession. In looking over the catalogue of the National Chrysanthemum Society, I find but one of these varieties mentioned, namely Mrs. K. A. Mudie. I feel it my duty, however, to say a few words in defense of the position I have taken and to show how easy it is to be mistaken in these matters. Good and competent men make mistakes in this country, and it is presumed they do on the other side of the Atlantic.

In the spring of 1901 a new chrysanthemum was disseminated under the name of Golden Beauty, supposed to have been a reflexed sport from H. W. Rieman. It now appears that the gentleman with whom it originated admits it is the same as Mrs. E. Buettner. Emil Buettner, of Park Ridge, Ill., who disseminated the last mentioned variety in the spring of 1896, says these two varieties are identical. I do not call attention to this mistake with the thought of throwing reflection upon those interested, but simply to show how easily these mistakes can occur. It also shows how soon varieties are forgotten, provided they are not immediately accepted as commercial improvements. The gentleman with whom this variety originated is most conscientious and I am sure he was firm in the belief that the variety H. W. Rieman had really sported to a reflexed form, and the disseminators accepted his word the same as anyone would, without the least intent to do injustice. It was simply a mistake.

I do not think it would be wise for the Chrysanthemum Society of America to accept this theory of chrysanthemums sporting in form, or to permit the committees to pass upon such sports until the variety has been grown in various localities and under varied conditions. We all know that chrysanthemums vary greatly in form. I understand that William Duckham, of Madison, N. J., grew some very fine blooms of Miss Florence Molyneux, a variety of English origin, and some of those blooms were

so closely incurved that they could be classed as true incurved; and yet the variety is described as a Japanese, and, as far as I have seen it, it is a rather loose-formed flower. Many incurved varieties when propagated and planted late will produce reflexed flowers. It would be wise to have all sports thoroughly tested to determine that the new color or form is fixed so that others will secure like or similar results.

In speaking of sports, it may be well to take up the matter of color. There are very few sports which are constant; for example, Pink Ivory; there are few growers who can depend upon getting it pink year after year. Now let us consider the sports from Vivian-Morel. We have Mrs. Ritson, Lady Hanham, Chas. Davis and Lady Anglesey. Mrs. Ritson is the only one that I have found to be constant. Chas. Davis varies in shade from light to deep bronze, and the same may be said of Lady Hanham. Lady Anglesey, as known in this country, appears nearer related to Chas. Davis than it does to Vivian-Morel, as it possesses more of the bronze coloring.

This variety was disseminated by W. Wells & Company, of England, and was described as a yellow sport. Here is what this firm says of this variety in their supplementary descriptive catalogue for 1899 and 1900: "We are sorry to say this has all gone to Chas. Davis. We felt confident of its being fixed, for we bought stocks which were pure yellow on large sprays and many saw them at our nurseries. However, we are quite willing to make up the value in any other variety. We must be more careful in the future." From this we conclude that the variety being grown in this country is not Lady Anglesey, but simply a sub-variation from Lady Hanham or Chas. Davis.

I notice in your eastern contemporary an article referring to a pink sport from Wm. H. Chadwick. Those who visited the Chicago exhibition can vouch for my correctness in saying that the largest blooms of Wm. H. Chadwick shown in the collections were pink, and possessed so much pink that one would not show them in a class which called for white. This variety is prone to go pink under certain conditions. What these conditions are I am unable to say, but our entire crop this season was pink. We do not consider it a sport at all, for, when grown under other conditions, it will produce white flowers. This we know to be the case, for the stock from which we propagated produced white flowers

last year. The same conditions exist with Mrs. Jerome Jones. All who viewed the beautiful vase which won first prize at Chicago remember that the flowers had a decided pink cast. They were grown for H. W. Buckbee by Chas. Johnson, but I do not think that Mr. Johnson will ever exhibit this variety before the committees claiming that he has a pink sport.

Several of our southern patrons have complained about pink varieties not coming true to color, particularly those which they term early and which are in perfection by November 1, or All Saints' day. Why this is so I am unable to say, unless it is from extreme heat. All of us cultivating chrysanthemums under glass know that very bright weather has a decided effect to reduce the colors, particularly the pink ones.

I well remember my first experience in exhibiting seedlings, which occurred in the fall of 1890. They were exhibited at Indianapolis. The judge was John Lane. They did not receive certificates, but I saw a great many varieties new to me and possessing marvelous form and great beauty.

"In the race for best twenty-five varieties, six blooms of a kind, Fred. Dorner was first with splendid blooms of Emily Dorner, John T. Emlen, Mrs. Wm. Bowen, Mrs. W. Sargent, L. B. Bird, L. Canning, Violet Rose, Mrs. Burpee, Mary Wheeler, W. H. Lincoln, G. F. Moseman, Mrs. Fottler, Henry Cannell, Puritan, Excellent, Mrs. Carnegie, H. E. Widener, Mrs. Langtry, Geo. Pratt, Mrs. Morton, Sunnyside, Marvel and Mrs. T. C. Price. M. A. Hunt was second, Henry Riegan, third. Among others who received their share of honors in the chrysanthemum classes were E. G. Hill, Walter W. Coles, Bertermann Brothers, and John Hartje." —AMERICAN FLORIST, November 20, 1890, page 202.

Among the seedlings was a magnificent golden yellow, ranking with Lincoln and Widener, which was awarded a certificate of merit under the name of Mrs. A. Rogers. This seedling was acquired from its owners by a prominent western wholesaler and disseminated the following spring at \$1.50 each. At flowering time this newcomer proved identical with H. E. Widener, which had been sent out the previous spring. As I remember this supposed seedling, it showed some traces of bronzy coloring; but it matters little how it appeared. We must admit the judge and the competent gentlemen (above referred to) present, did not detect this error, or, at least as far as I know it was not detected until it had been sent out.

In an English catalogue mention is made of White Clinton Chalfant. From this we would think they have either forgotten that Clinton Chalfant was a yellow sport from Joseph H. White, or have not grown the latter variety.

It is possible to give many other illustrations showing how easy it is to be mistaken in the identity of varieties or how apt we are to appropriate new names to old varieties.

The judges and C. S. A. committees who inspect seedlings and sports should not be severely criticised for their work. It is a thankless task at best and it is impossible for anyone to be or keep in touch with all the varieties now in commerce. There is one way in which they can protect themselves to some extent, and that is by being careful how they express their opinion upon sports, even though the flowers may appear larger

and more perfect or possess greater depth than similar varieties.

Would it not be better to protect the members of these committees by a code of rules relative to sports, or, better yet, furnish each committee with a list of varieties which have produced sports, giving name and color of both the sport and parent, and then apply the code of rules to regulate their action when a variety is presented which has the appearance of being a duplicate?

In conclusion, I will say, it has evidently required the past hundred years for our English cousins to put on record the few cases referred to and, as we are unable to find that more than one of them has been cultivated, it may be this case is only another error. Had not Mr. Buetner purchased stock of Golden Beauty we would have reason to believe that the variety H. W. Riegan did really



JOHN B. NUGENT.

produce a reflexed sport. From the foregoing conclusions I see no reason why I should change my views on this subject. Seeing is believing, and, when this time arrives, I will be prompt to admit that my belief was false and gladly apologize to my worthy friend.

ELMER D. SMITH.

An Octogenarian Florist.

John B. Nugent, whose portrait appears herewith, is the oldest florist engaged in active business in New York city. He is 81 years of age and as nimble as many men of a much younger age, genial, companionable and highly respected. Mr. Nugent first worked as a florist at his native place near Dublin, Ireland, in 1837, when 16 years old, and went into business for himself ten years later. He came to New York in 1872, being at that time in very precarious health, and started a flower store within one block of his present location in Park avenue. Six years ago Mr. and Mrs. Nugent celebrated a happy golden wedding; three years later Mrs. Nugent died. Of five sons and six daughters born to them, but two sons and two daughters remain. One son is in business with the old gentleman and the other is of the wholesale firm of Young & Nugent.

Notes and Comments.

I am reliably informed that arrangements are being concluded for the publication of the entire proceedings of the Plant Breeding Conference in full, and that it is estimated it will make a book of 700 pages and that the cost will be about \$5.

In reference to charges of express companies, one of the bright lights among the retail florists in Philadelphia says: "What is needed is better service, not cheaper rates." This applies when the companies are handling cut flowers, and not plants. He would be willing to pay an advanced rate if more careful handling, prompt and safe delivery were insured. He said further that when the florists are in convention they are after mealy bugs and red spiders, which are trying to make an honest living, instead of making an effort to improve the service of those large corporations, the express companies.

Referring again to sports in plants, I am reminded that Warren R. Shelmire secured a sport from old Carnation Buttercup which he disseminated as H. M. Stanley. In color it was very distinct from its parent, being a tawny yellow splashed with red, but in addition to the sport being distinct in color it was also more fragrant than Buttercup, from which it sprang.

In this connection, when on the Briarcliff trip a few weeks ago, F. L. Moore, of Chatham, N. J., with whom the Bridesmaid rose originated, stated that he at one time secured a sport from Meteor which was fragrant, but did not undertake to work up a stock of it as he did not believe fragrance alone would make the newer sport popular enough over the older Meteor to make it profitable.

An interesting note is going the rounds of the agricultural press to the effect that Secretary Wilson, of the U. S. Department of Agriculture, is to supply the children of the public schools throughout the country with flower seeds. It looks as though the idea is a good one. It seems to be a step in the right direction and towards nature study, which is now receiving so much earnest attention by many of the bright minds of this and other civilized countries.

It would be interesting to know whether there is any difference between the yellow sports from Chrysanthemum Timothy Eaton that we learn are in existence. The ones which were exhibited by the E. G. Hill Company and Robert Craig & Son are believed to be identical, as they were exhibited before the New York and Boston committees of the Chrysanthemum Society of America and at the Philadelphia chrysanthemum show. The one which has been announced through the horticultural papers by W. R. Pierson was not exhibited before any of the committees of the C. S. A. This is to be regretted, as there may be some distinction between the two sports, and then again they may be practically identical.

If I remember rightly, there were some distinctions between the several yellow sports of Mrs. Jerome Jones, as President Graham, Henry Nanz, Mrs. Geo. F. Baer and others, the names of which I cannot recall. During the present season another sport from the same source has appeared and has been named Chautauqua Gold, but whether it will prove sufficiently distinct from the others to entitle it to that name remains to be seen.

Referring to Begonia Gloire de Lorraine



APPROACH TO CONSERVATORY IN J. F. SULLIVAN'S NEW DETROIT STORE.

as a house plant, we have kept them in our home for months in excellent condition, and Mrs. George Burton has had one in her home ever since a year ago last Thanksgiving day, and it is a beautiful plant to-day, full of bloom. Pennock Brothers speak well of Lorraine begonias for Christmas trade. They handle none but the light pink variety and last Christmas not a complaint was received by them.

As a grower, H. H. Battles is justly proud of his success as a producer of poinsettias. I forget the exact number he has planted, but they run up into the thousands. At a fashionable wedding last week, of the floral part of which Mr. Battles had charge, he sent the ladies in waiting down the aisle with the long stems crowned with brilliant scarlet, which, to use an expression by an onlooker, was "daringly original." We are assured that, with the white gowns of the ladies and their Gainsborough hats decked with white ostrich plumes, and the bright-colored poinsettias, it was a stunning sight and not soon to be forgotten.

Robert Kift is so busy these days he hardly has time to talk to people in the ordinary walks of life, that is to say, if they are not bent on buying something or giving an order for Christmas, or have not something good to sell. He still believes in the Parisian baskets of living plants for Christmas gifts, believing that they give more general satisfaction than cut flowers. E. L.

A Model Floral Establishment.

J. F. Sullivan, of Detroit, has demonstrated once again that whatever is worth doing at all is worth doing well. His most recent achievement is the re-fitting of his Woodward avenue store, making it a model of its kind. A brief description of the place will be of interest.

The store proper covers 20x100, three-fifths of which constitutes the show room, while the remaining forty feet, is used as a work room, the partition between being a fine curtain which enhances the general effect. The large, French plate show window, with its green-tiled platform, is in proportion to the rest of the establishment. Nothing seems to be out

of harmony. The fine refrigerator in no wise surpasses in beauty or attractiveness the show cases alongside and opposite it, while the marble-topped counters and tables correspond well with both. "Alba superba" is the color of the ceiling and walls and the numerous incandescent lights proclaim Mr. Sullivan as a believer in the value of abundant light in an up-to-date flower store.

Right over the workroom is the conservatory, which is reached by easy stages, via the grand stairway. By "easy stages" I simply mean the ease with which one ascends the flight of steps leading to the midway platform and thence to the offices on either side and to the conservatory. The equipment of the latter is decidedly ingenious. Concrete walks with grooves carrying all moisture into a pipe leading to the sewer, are used, just as one is accustomed to see in conservatories built upon the ground.

The structure rests upon heavy iron beams, supported on either side and in

the center by iron posts, strength and durability thereby being fully insured. The three tables, holding palms, ferns and all sorts of decorative plants, are equally interesting features. The center one represents a solid mass of concrete, lined all around with zinc, while those on either side are raised, the walls below, like the roof, being lined with heavy ribbed glass, thus affording a splendid light in the workroom underneath. Pea green is the color in this section and several arc lights make things bright as day for evening trade.

Not the least interesting feature is the cellar, running the entire length of the building. A part of it is partitioned off for flower boxes, while another part holds wire designs and so forth. There is a place for everything and everything is in its place. Hot water is the system of heating and the best apparatus has been installed. NOMIS.

CARNATIONS.

CARNATION SOUVENIR DE LA MALMAISON.

ED. AM. FLORIST:—Will you kindly inform me through the columns of the FLORIST if there was a yellow carnation grown twelve years ago by the florists in this country, named Souvenir de la Malmaison. The carnation in question was totally different and distinct from the Souvenir de la Malmaison grown in pots and was grown along the same as any variety of to-day, such as Lawson or Crane. P. B. R.

[We have no record of this variety, but perhaps some reader may remember it and will send us particulars.—ED.]

STORING, PACKING AND SHIPPING.

If properly grown and handled the cut blooms of carnations may be safely stored for three or four days before being consigned to the retailer. It is simply a question of having them in the right place and keeping the water fresh and the ends of the stems open.

The fully developed flowers should be cut every morning, before the sun is bright, and placed in water before the cells at the cut ends of the stems have a chance to shrivel and partly close up. Do not bunch the flowers in bunches of



CHRYSANTHEMUMS AT OPENING OF J. F. SULLIVAN'S NEW DETROIT STORE

twenty-five, as was the custom in former years, but put in pots or buckets, just as you would roses, being careful not to crowd, so that each flower can find its place naturally beside the others, and have a free circulation of air around it. The stems in the water should also be arranged loosely. The pots should be deep enough to bring the water two-thirds of the way up the stems. This will not only assist nature in keeping the blooms charged with water but will hold the flowers erect, keeping the stems perfectly straight, allowing the water to pass through them more freely than it would through a stem partly strained by being compelled to support a heavy flower. It will be well to have a certain number in each pot, twenty-five, fifty or 100, as the case may be, to avoid handling as much as possible. Change the water each day and cut a half-inch off the ends of the stems before putting back into the water.

The ideal place to store the flowers is a cool, dry cellar, where the temperature is about 45°. Carnations should never be put into an ice box, and no ice should ever be near them. The cellar should be well ventilated, but strong draughts should not be admitted. A cool room, where the same conditions can be maintained, will answer the purpose equally well.

For shipping, light wooden boxes a

foot wide, six inches deep and three feet long are the most convenient. These will hold two layers of carnations, laying the flowers at the two ends of the box and the stems overlapping in the center. The flowers should be neatly arranged in rows, about four rows deep, with a strip of wax paper for the heads to lie on, keeping the flowers from contact with the stems below. When the bottom layer is completed, cover with a sheet of wax paper and proceed with the second layer. It is not well to have them more than two layers deep. When the box has received its full quota of flowers fold up a wet newspaper so it will cover a foot square and place over the stems in the center of the box and fasten down securely by means of two light cleats held in position by small nails driven through the sides of the box. No ice should be used and no water, except that which naturally clings to the stems when taken out of the pots.

The box should be but thinly lined with paper on the inside, reserving all heavy lining for the outside of the box, which can, of course, be used as thick as necessary, according to the severity of the weather. Have your employes handle the boxes as carefully as possible. The expressman will shake them up thoroughly enough by the time they get to their journey's end.

I might add that when the flowers reach the end of their journey they should

have a half-inch cut off the ends of the stems before being placed in water. J.

Two Good Wichuraiana Hybrids.

Herewith are presented two views in the rose gardens of the noted specialist, M. H. Walsh, at Wood's Holl, Mass. In one of them appears also a characteristic picture of Mr. Walsh. Sweetheart is a hardy climbing rose, the product of Wichuraiana crossed with Bridesmaid. The clustered white and pink-tinted flowers are full double, the individual blooms about two and one-half inches in diameter and fragrant. Debutante had for its parents Wichuraiana and Baroness Rothschild. This is also a hardy climber, flowers pink, double and fragrant and, as shown in the illustration, comes in generous clusters.

Florists' Plant Notes.

CINERARIAS.

Your cinerarias for Easter should now be ready for a last shift into their flowering pots, a 5-inch or 6-inch. A good, sandy soil, with one-quarter well rotted cow manure and some leaf mould added, with plenty of drainage, will do. They must always be given plenty of room to allow their large, handsome leaves to develop properly. No plant responds more readily to proper treatment and care than does the cineraria. An occasional sprinkling over the foliage on bright days will be beneficial. The greatest enemy of this plant is the aphid, or common greenfly, but fumigating is a dangerous expedient, for it is apt to burn the foliage. A light smoking may not hurt the cineraria; neither will it hurt the fly. A far better and safer method is to scatter stems between the pots, which must be renewed at least once every month.

STEVIA.

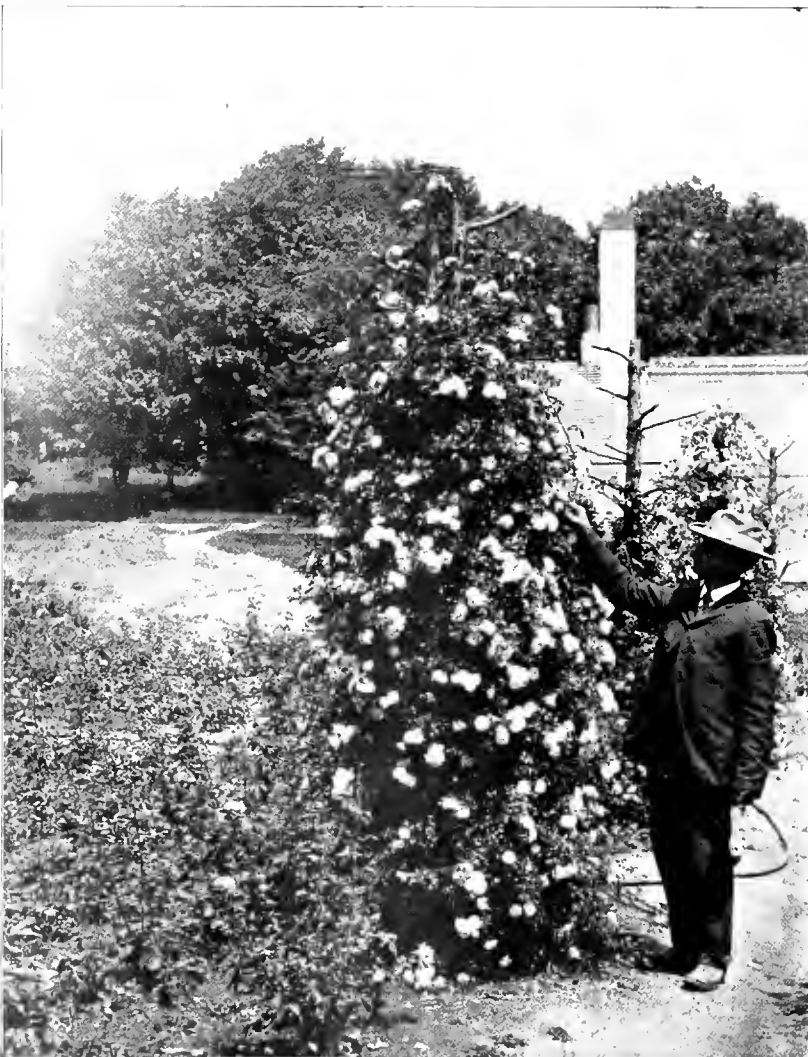
Do not fail to save a few stock plants of stevia, which is now nearly past its flowering season. A dozen plants will give you all the cuttings you want, which should be struck in March for the following season.

SWEET PEAS.

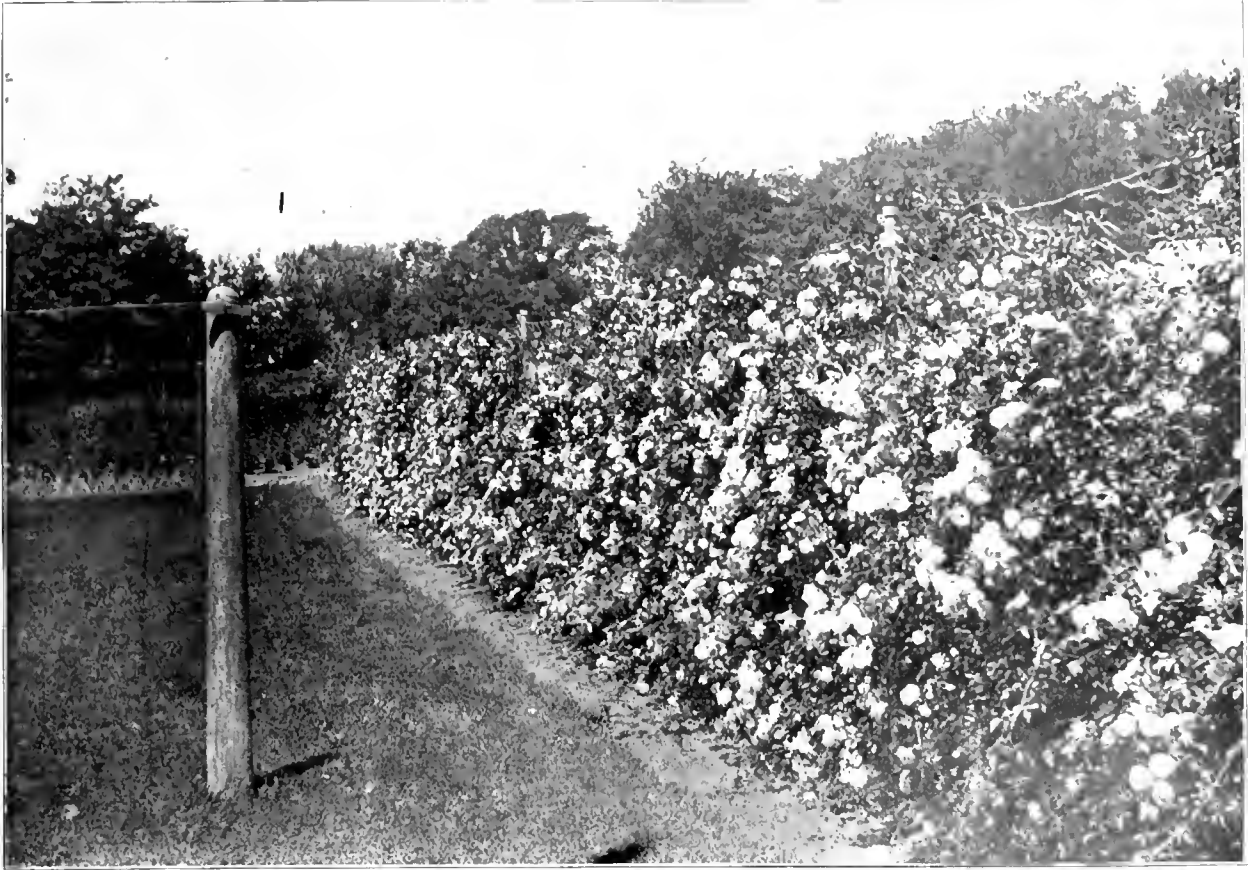
If you neglected to sow sweet peas for early flowers last September, it is well to sow some now. We prefer to sow in 4-inch pots, seven or eight seeds to a pot, and when two or three inches high plant along the north edge of a carnation bench, a potful next to each iron post supporting the purlin. This method of planting along the carnation bench is not at all beneficial to the carnations near the peas, for the latter always manage to absorb all the nutrition in the surrounding soil, resulting in starvation to the carnations. Therefore, unless an entire bench or a part of a bench can be devoted to their culture, which is, to be sure, by far the better way, it simply resolves itself into a question as to which is the more profitable, the sweet peas or the few carnation plants destroyed. A top dressing of rich, two-year-old cow manure after the peas have made some growth will partly make up for the loss of nourishment sustained by the carnations next to them. Blanche Ferry for pink, Emily Henderson for white and Countess of Radnor for lavender, are the best forcing varieties.

HYDRANGEAS.

Easter falls on April 12 this coming year, and if you are forcing *Hydrangea Otaksa* for this occasion, it is time to give



M. H. WALSH AND HIS HARDY CLIMBING ROSE, SWEETHEART.



ROSE DEBUTANTE GROWING ON WIRE TRELLIS AT M. H. WALSH'S, WOODS HOLL, MASS.

them your attention now. Since they last so well when in flower, it is better to have them a little early rather than too late. We set them up into a temperature of 60° the first of the year, which, as Easter falls on a comparatively late date, will be sufficient heat to force them into flower nicely. The pots will soon be filled with roots and they must never be permitted to wilt for want of water. After the buds are set it is well to water once a week with liquid manure, to give size and color to the flower. The temperature may be raised to 65° or 70° at night, if thought necessary to force them into bloom on time, or it may be lowered a few degrees if they are too forward. The more forward ones should be placed in a cooler house for a week or two before they are offered for sale, to harden them off. They must never suffer for want of light and room, else the plants will grow long and weak, and lose their lower leaves. Those plants held back for Memorial day should be placed in a temperature of 45° or 50°, where just enough water is required for the first month or two to encourage a firm and sturdy growth, after which, copious watering is necessary. No forcing will be necessary to have them in bloom at this late date. The cuttings for the next season may be struck any time during January and February.

EASTER LILIES.

Your *Lilium Harrisii* for Easter should now be about six inches high. A temperature of 60° at night will bring them along fast enough. Unless you are growing them in quantity, and can devote a whole house to them, where the temperature may be raised or lowered at will,

you will likely find it necessary to move them several times into different temperatures before the flowers open, but great care must be exercised to avoid extremes of heat and cold. They should never be kept cooler than 50° at night while the plants are growing and the buds developing, nor more than 70°, unless, perhaps, during the last few weeks before the buds are open, when extreme forcing may be found necessary to have them on time. There is always a greater or less proportion of diseased bulbs among the *Harrisii*, and it will be time and money saved to dump them at once, for they never will outgrow the disease.

The longiflorums are less susceptible to the disease, and for this reason many growers prefer them to the *Harrisii*. They require more heat to force them into flower for Easter than the latter, but otherwise the same treatment will do for both varieties. Keep a sharp lookout for green fly, which gets down into the crown of the plant, among the young and tender leaves, from which it is difficult to dislodge them with tobacco smoke. Use about a thumb-potful of rose leaf extract of tobacco to a gallon of water and apply with a syringe once every two weeks to ferret out the green fly in its snug retreat, or water in which tobacco stems have been soaking over night, applied in the same manner, will also serve the purpose. Many a batch of lilies is ruined at this stage of growth by permitting the fly to bring in its work, puncturing the undeveloped buds deep down in the crown of the plant; for this reason, regular fumigation and syringing with tobacco water must not be neglected. B.

Pompon Chrysanthemums.

BY JOHN N. MAY, SUMMIT, N. J.

[Presented to the Chrysanthemum Society of America at the Chicago convention, November 12-13, 1902.]

That these little gems are steadily becoming more popular is quite apparent. One only need look at the gardens, of every class, during the late fall, when nearly every other blooming plant has been killed or the flowers, at least, destroyed by early frost and heavy rains, to see the pompon chrysanthemum flourishing in all its glory. A few degrees of frost does not mar its beauty, hence it is the one flower that everyone can enjoy when all others are past.

The three or four old varieties of artemisia which our ancestors planted in their gardens, in many sections, can still be seen growing luxuriantly after half a century or more in the same position. From these have sprung the greatly improved forms and almost every shade of color known in the chrysanthemum to-day.

One of the reasons that this flower is coming to the front so fast is that it is of the easiest possible culture. In fact it might be justly said that it needs no special culture whatever. All that is necessary is to take a young, healthy plant from a 2-inch pot in May. Plant it out in any position in the garden, not directly under the shade of trees. If the weather is dry give it one or two good waterings. Keep the weeds clear of it till it gets a fair start.

After that it will outgrow almost every kind of weed. Then about all the attention it will require will be in September, after the buds are set and the top becomes heavy, when a little support,

by putting three or four short stakes in around the plant and tying a piece of stout string all around it, will prevent its being broken by strong winds, heavy rains and so forth. With the above treatment a great show of flowers can be had at a very little cost.

But if you want to see the pompon in its best form it will well repay the additional care necessary to obtain it. To do this select an open spot in your garden, away from the shade of any trees or vines, but protected somewhat from strong winds. Plant out young, healthy plants from small pots as early in May as is safe. When they have started to grow fairly well take a sharp knife and stop the main leading shoot back to within seven or eight inches of the ground. In a short time it will throw out quite a number of shoots. These should be allowed to become six or eight inches long. Then reduce these to seven or eight, leaving, of course, the strongest, and in thinning them out leave them so that the plants have about an even amount on all sides. These shoots that are left, and which are to form the main basis of the plant, should in turn be shortened back to five or six inches.

After this the plant will make very rapid growth and the weak lateral shoots should be carefully cut away and the stronger ones allowed to grow on till the buds are all set. If these details are watched carefully, a large bush, two feet or more through, will be nicely formed. At this stage staking and tying sufficiently to prevent storms breaking the branches will be necessary. After the buds are set, thin by carefully pinching out all except five or six from each shoot of the larger flowered varieties, but for the small button-flowered kinds eight to ten buds can be left on each shoot. This will allow the individual flowers to develop to perfection and be much larger and of better color than when all the buds are left on the plants.

A shoot with a stem from twelve to eighteen inches long, having from five to ten nicely developed flowers, makes an exceedingly attractive spray. For this purpose the earlier blooming varieties are especially desirable, as the above treatment will generally bring them into full flower before there are many of the larger chrysanthemums in bloom, though all the varieties are equally benefited by the little additional care.

The above method of culture is applicable to all who do not possess a glass structure of any kind. For those who are fortunate enough to have cold frames or cool greenhouses in which to protect their plants from storm and frost, their season can be extended till the end of November or later, by making a selection of both early and late-blooming varieties. For growers so situated the best method will be to grow only the very earliest varieties planted out in the open ground and for the later varieties grow them in pots or boxes.

For this method of culture take plants of the same class as for the open ground, pot them into a larger size, using a good loamy soil, with only a small amount of fertilizer added for this shift. Cut the leading shoot back to four or five inches above the soil. When it has started side shoots one or two inches long, shift into another pot two sizes larger than the one it occupies. As soon as the roots get a fair start into the new soil they can be stood outside on a bed of coal ashes and grown on steadily, attending to the thinning out of shoots, and so forth, as advised above.

By the first week in July they will be ready for their last shift. For this last potting a somewhat richer compost will be necessary than for the earlier stage. The smaller or weaker-growing varieties should not have more than a two-inch larger pot than before, while the stronger and more robust growers can be put into pots three or four inches larger than the size they were occupying. But in each case the pots should be well drained with broken potsherds or similar material.

After this potting considerable care must be exercised not to overwater them till the roots have taken possession of all the new soil. In fact they should never be allowed to get too much water during the entire season, or they will lose most of their larger leaves and get a severe check. As soon as bad storms are due in



SPRAY OF GYPSOPHILA PANICULATA FLORE PLENO. Flowers Full Size.

the fall they should all be removed from their open air position, either to a cool greenhouse or cold frame, where they can be protected. In all other respects they should be treated as described for the better class of plants in the open ground. Plants grown this way will make nice ornaments for any decorative work.

The varieties of pompons are now so many and so varied in their general size, color and form that to enumerate varieties would only be superfluous. Take the earliest for the open-air culture and whatever colors strike your fancy for the pot culture. They are all exceedingly attractive and beautiful and will well repay anyone for the little time and attention required to produce them in abundance. For selling as cut flowers grown in the open ground, the following I have found very desirable:

Oneita, yellow; Vera, white, La Purite, small white; Little Pet, small yellow; Delicatissima, white and bluish pink; Caritas, shaded pink; Julia, deep shaded red; Mr. Astic, soft yellow; Angelique, pure white, and one of the oldest varie-

ties known to cultivators. Bob should still find a place in every collection.

This list could be extended almost indefinitely and the enthusiast cannot make a mistake by adding any or all the varieties to his collection, as the taste is undoubtedly greatly on the increase for these little gems for late autumn decoration of the garden, the conservatory, and the homes, generally, of the rich and poor alike. This is one of the few flowers that can be enjoyed by everyone having a plot of ground a few feet square.

New and Rare Plants.

GYPSOPHILA PANICULATA FLORE PLENO.

D. S. Thompson & Sons, of Wimbledon, Surrey, England, exhibited *Gypsophila paniculata flore pleno* before the Royal Horticultural Society on July 30, 1901, and received an award of merit. It is perfectly double-flowered, pure white and serviceable for conservatory decoration or cutting. The plants attain a height of about three feet and it is perfectly hardy. One of the accompanying illustrations shows a specimen plant, the other a spray with the flowers full size.

ASTILBE DAVIDII.

Astilbe (Spiraea) Chinensis var. Davidii is a strong-growing perennial with foliage similar to that of the well-known *Spiraea Japonica*, but larger, and has tall spikes of deep rosy purple flowers densely borne on stems six feet in height. The flowering rachis is more than two feet in length and covered with a thick brown tomentum while the stem below is glabrous. It is perfectly hardy in England and when established in the garden forms one of the most striking of recent introductions. The plant is a native of central China and was sent to Veitch & Sons, London, by E. H. Wilson, one of their collectors. Seedling plants of it flowered for the first time in their Coombe Wood nursery in July, 1901. The Royal Horticultural Society gave it a first-class certificate August 5, 1902.

Lonsdale on Greenhouse Management.

John Hamilton, Secretary of Agriculture of the State of Pennsylvania, in giving a list of the publications which his department has been instrumental in giving to the interests of agriculture, horticulture and floriculture, names one which florists should all be glad to get a copy of, namely that on "Greenhouse Management," by Edwin Lonsdale. It was originally an address before the State Board of Agriculture and has now made its appearance in the form of a pamphlet of forty-two pages and will no doubt be greatly appreciated by those interested in greenhouses, not only in Pennsylvania, but in other parts of the country. Mr. Hamilton says in his preface to the work:

Mr. Lonsdale has had large experience in this work and was chosen for the preparation of a bulletin because of his success in this direction and his eminent fitness for the discussion of the difficult questions which confront the growers of flowers and ornamental plants, whether for home adornment or general market. Few men in the midst of active business, as is Mr. Lonsdale, are willing to take the time to write out their experience, in readable form for public use, and all who are interested in floriculture, or in the cultivation of decorative plants, can, therefore, well be thankful that the author has sacrificed, for their benefit, his hours needed for rest and recuperation.

Those who know Mr. Lonsdale as do the readers of the AMERICAN FLORIST will heartily endorse the words of Mr. Hamilton. I am informed that the complete pamphlet can be procured from the Department of Agriculture at Harrisburg.

Astilbe (*Spiraea*) *Chinensis* Var. *Davidii*.*Gypsophila paniculata* *Flore Pleno*.

TWO OF THE INTERESTING NEW EUROPEAN PLANT NOVELTIES.

free of charge, by any one who writes for same.

Among other interesting things which we learn from Mr. Lonsdale's pamphlet is the fact that along about 1880, twenty-two years ago, he was interested with Mr. Burton in growing smilax and making \$1 per square foot out of that crop, and shipping it, not only to Philadelphia, but to New York and Washington. What a change since those happy days!

The first chapter is devoted to a general review of the greenhouse business, the various glass structures and the varieties of plants that are grown therein. Roses naturally take up a large amount of attention in that connection and the ever interesting story of the American Beauty's origin is given, in the author's most popular style. Considerable space is given to the discussion of the merits of the other roses, among them being the Jacqueminot, Perle, Golden Gate, Mme. Cusin, Mrs. Oliver Ames and others. Mr. Lonsdale explains the reason for treating roses so fully in his pamphlet as follows:

It has been deemed advisable to thus treat upon roses at length, because if roses can be grown in his greenhouses, the operator thereof need not hesitate to undertake to grow any other plant, as roses are among the most difficult plants to grow and bloom successfully.

The question of temperature is treated so concisely and clearly that the paragraph is worth repeating here.

The question of temperature in the growing of roses is one of the most important, and nearly all

the sections mentioned need a few degrees difference at night if we would achieve the greatest success. For instance, we have found that the Meteor must have 5° higher at night, namely 65° to 68°, than American Beauty, Queen of Edgely and American Belle require, which to do their very best must have from 60° to 62°; kept as nearly the first named number of degrees as possible is the better. Bride and Bridesmaid 56° and 58°, and Bon Silene, Safrano, Isabella Sprunt and Papa Gontier, 54° and 56°, and Golden Gate 58° to 62°. Perle, Sunset and Sunrise from 6° to 62°.

And a similar state of affairs exists with carnations though not quite to the same extent. Twenty-five years ago, from 40° to 45° was considered about right for these popular flowers, but it is found now that for best results with the greatly improved varieties now grown, a temperature about the same as that recommended and in use for roses at the same period is now in use for carnations, namely, about 55°.

A short chapter is given to ventilation and another to the water supply. Drainage receives quite a large amount of attention and the AMERICAN FLORIST is complimented by being liberally quoted from. On the mooted subject of sub-irrigation the author sums up as follows:

Sub-irrigation is being experimented with to some extent, but so far a cheap method of constructing a bed where sub-irrigation could be practiced to advantage has not been adopted to any extent. It promises well, I am inclined to think, but just the right plan of operation has not so far been hit upon.

A short chapter is devoted to aspect and another to heating. This latter subject is gone into in a clear and convincing style that anybody can understand. The merits of steam and hot water are debated and the conclusion stated in very few words. The author's ideal heating system is summed up as follows:

The very best because offering the least trouble

and expense after the first cost, that I have heard of, is an establishment located in Helena, Montana, which is incorporated under the name of the State Nursery Company, the greenhouse department of which is heated by natural hot water. The hot water is conducted through the greenhouses in pipes, as is done when a boiler is used, excepting that no provisions are made for the water to return, flowing on after it has done its duty, apparently going so waste. The springs from which the water is taken are about half a mile away from the greenhouses, and the water is conducted through a wooden pipe under the ground and has a fall of 10 feet, which registers about thirty pounds pressure. The temperature of the water is 130° when it reaches the greenhouses, so that it takes more lineal feet of pipe to insure the atmosphere in the greenhouses being raised to the desired temperature than it does when the heating is done by the ordinary methods of steam or hot water as practiced in Pennsylvania. This item of information is introduced incidentally to indicate the advantage that some florists have over others, especially out in far away Montana, when the question of heating is under consideration.

A long chapter is devoted to diseases which the greenhouseman has to fight, including mildew, black spot, stem rot and carnation rust, the most accepted remedies for these conditions being mentioned. The chapter on insects is not long, but it fully covers the ground and conveys a great deal of information in very small space. A chapter is given to soil and propagating respectively and the pamphlet winds up with a list of annuals for winter blooming. In this list are included mignonette, sweet peas, nasturtiums, salpiglossis, brachycome and schizanthus.

Scattered through the publication are many hints which will be useful, not only to the younger members of the craft, but

also to those who are old in the business. Mr. Lonsdale is not only a keen observer but has an inventive mind and has introduced several wrinkles to the trade which are worth being largely adopted. The present publication, being a state document and published free of charge, should be freely availed of by all who are interested. When a florist of experience decides to put his knowledge into book form he generally charges from \$1 to \$5 a copy to his brother florists. It will therefore be seen that Mr. Lonsdale's case is a unique exception, and no doubt many will be glad to get this publication while the supply lasts. I understand there are only some 5,000 copies available for outside distribution. Those who desire a copy should address the Hon. John Hamilton, Sec'y of Agriculture, Harrisburg, Penna.

GEORGE C. WATSON.

Forcing Branches of Hardy Shrubs.

A writer in *Moller's Gartner-Zeitung* gives some very interesting notes on the forcing of the branches of flowering shrubs and trees, some of which force easily and quickly and develop their flowers either in a cold or warm house, and in that way furnish very beautiful material for cut flower work and decorations.

Among others, *Prunus Amygdalus* (*Amygdalus communis* fl. pl.), the double-flowering almond, takes a prominent place. The branches may easily be brought into bloom for Christmas. For that purpose they should be cut towards the end of November; any size of branch, no matter how big or little, will answer.

The severed branches are put into a barrel of water in a warm house and an occasional sprinkling with lukewarm water should then be given, perhaps once a day. As soon as the flowers open this sprinkling must cease, otherwise the

Christmas, while the ribes will develop its flowers within five weeks if treated like the almond. If *Ribes sanguineum* is used, the clusters of flowers are of the same shape and size as if the flowers had developed out of doors, only the color is somewhat paler.

Particular attention is drawn to the hardy magnolias, the culture of which is extremely easy and the results very pleasing. In order to get magnolias into bloom for Christmas, the branches are cut about four weeks before and they are treated like those of the almond at a temperature of 58° to 66° F. The white flowering kinds produce flowers of a much finer and more satin-like texture than those produced out of doors.

One of the principal qualities of these magnolia flowers is their durability. If placed in water they will remain in perfect condition for eight to ten days after the development of the flowers, even in the dry atmosphere of the dwelling room. The writer advises the planting of numerous hardy magnolias and other blooming shrubs for the very purpose of cutting branches, as described above, for forcing in the house in winter.

A Prosperous Establishment.

Adam Laub and his sons, Robert and Alexander, began business in a modest way, at Hughsonville, N. Y., in 1892 and have a record of ten years of uninterrupted prosperity and development. They started with one house 16x75 and in 1894 had made progress to warrant another structure, 15x55. Then in 1896 two more houses were built, one 10x100, the other 16x100. Since then the development has been faster and the houses better built, the latest improvements being incorporated. There is now 20,000 square feet of glass. Most of the place is devoted to carnations and violets. Last season 80,000 carnations were shipped

the stock believing that, as one of the firm says, "When the people once find you out you never have any difficulty getting rid of the stock." The plant is heated by four boilers in three different locations. A reservoir on a hillside holds 20,000 gallons of water, pumped from a well eighty-six feet deep by a Rider engine. There is a fall of forty-one feet from the reservoir to the greenhouses.

Chicago.

WEEK UNSATISFACTORY TO GROWERS AND WHOLESALERS.—AVERAGES MUCH BELOW THE SEASONABLE FIGURES.—QUALITIES ON THE DOWN GRADE.—PROSPECTS FOR CHRISTMAS.—ADEQUATE SUPPLIES PREDICTED.—ADVANCE ORDERS COME HESITATINGLY.—NOTES OF DOINGS BY GROWERS AND OTHERS.—DEMISE OF MRS. WASHBURN.—OTHER MATTERS.

The market has been slow this week and many have been the complaints. It is the season of high values, but only the very small percentage of strictly fancy stock brings anything like a reasonable price. Receipts are not heavy, for the weather has been unpropitious, but demand seems light all through the wide territory served by this market. The same causes which have produced light cuts have also served to take the quality out of the roses. There is a most discouragingly small part of the receipts which is up to the requirements of the shipping trade and, as there is comparatively little doing locally, clean-up sales are on record at figures probably never duplicated at the season and which afford little consolation to the growers who are shoveling high priced coal. Bridesmaid naturally shows the deterioration in quality more than any other rose. Beauties have suffered, but there has been enough good stock for the orders. Carnations are holding the quality very well and, too, are bringing better prices, relatively, than roses; good carnations are worth \$3 and fancies \$4. Violets are in short supply and are well sold, with the usual relation between quality and price. Much of the business being funeral work, white flowers frequently have the call and this makes an outlet for bulbous stock. Green goods are moving slowly just now, for the young people are too busy buying Christmas presents to have time for marriage, and it is wedding work that makes the market for much of the smilax and asparagus. The general report among the wholesale growers is that they have a fair proportion of orders and inquiries which promise to take up all the available stock for Christmas. The commission houses have not booked so large an amount of business, perhaps because they can not be so certain as to the extent of their supplies. At the present time it looks as though there would be enough stock for all, except medium length Beauties, red roses and perhaps red carnations. There probably will not be enough first-class roses, which may lead to some complaint as to either grades or prices.

C. L. Washburn and O. P. Bassett have the deepest sympathy of each one in their wide circle of friends and trade acquaintances in the demise of Mrs. Washburn, who passed away at Alma, Mich., on the evening of December 12. She was the only child of Mr. Bassett. Mrs. Washburn had been in poor health for several years and for the past few months it was feared that the end was near. Both father and husband were constantly at her side during the last ten days. Interment was at Hinsdale



PANSY FIELD OF WILLIAM TOOLE, BARABOO, WIS.

(From photograph taken October 23, 1902.)

bloom will suffer. The flowers are fully developed after about five weeks and such a branch will attract more attention either in the florist's window or on the Christmas table than almost anything else, since the flowers appear in such vast numbers.

The same method of treatment can be applied to forsythia and ribes. The former requires a little more time for forcing than the almond, if they are wanted for

to the New York market and 425,000 violets, besides what were disposed of at home. Of carnations the principal varieties are White Clond, G. H. Crane, Mrs. Bradt, Frances Joost, Cressbrook, Prosperity and Mrs. Potter Palmer. The firm has been steadily working up a business in rooted cuttings, last season shipping some 75,000 violet plants and good quantities of carnation cuttings. They have given especial care to the quality of

on Sunday and many in the trade were in attendance.

Fritz Bahr's home at Highland Park was destroyed by fire early Monday morning, December 15, and the members of the family had a narrow escape. It was due to Mr. Bahr's exertions that the children were saved, but to do this it was necessary to drop them from the second-story windows to the ground, where they were safely caught by a party of rescuers. The residence was totally destroyed. The insurance of \$2,000 will not nearly cover the loss.

The Garfield Park Floral Company has holiday plants in large quantity and unusually fine quality this season, including *Primula Sinensis*, *P. obconica* in variety, *P. Forbesi*, *Asparagus plumosus nanus*, *A. Sprengeri*, *Begonia Gloire de Lorraine*, cyclamens, peppers, ficuses, Boston ferns, azaleas and so forth. The dwarf poinsettias in pans at this place are the best seen this season. Lilies promise well for later bloom.

There were about ninety in attendance at the meeting of the Gardeners' and Florists' Union, Wednesday evening, December 17. The proposed by-laws and constitution were read the first time, there being two more readings to follow at later meetings. The next meeting will be held at 49 LaSalle street Saturday evening, December 27, when all competent gardeners and florists are invited to join as charter members.

The Flower Growers' Company is perfecting its incorporation and intends to establish a flower growers' market in the large quarters on the second floor of the Fairbanks building, on the northwest corner of Wabash avenue and Randolph street. F. R. Hills is treasurer pro tem. About fifteen stands have been engaged to date.

As William Kalous, of Kalous Bros., was driving down Milwaukee avenue last Saturday night his wagon was set on fire by the charcoal heater which he uses to keep the stock from freezing. The fire department near by came to his rescue and saved the vehicle from total destruction.

McKellar & Winterson have an additional source of supply on poinsettias this year, a new grower who has 3,500 for Christmas week. They also have a big lot of ilex berries in fine shape. Wienhoeber is using twenty-five cases of them for Christmas.

Weber Brothers are repeating their previous seasons' success with their carried over Brides and Bridesmaids. The buds are large and of splendid substance and the growth strong. Amling is handling the cut this year.

Of course white carnations held back cannot lose color, but they can lose value. White carnations have been worth more in this market the past week than pickled stock is ever worth, and white is not the Christmas color.

At Kennicott's they are now counting on enough Christmas stock in all lines except violets, which are already in short supply, but this is not a shipping item, practically the entire receipts being sold locally.

H. N. Bruns has a large quantity of lily of the valley in prime condition for the holidays. Some Proserpine tulips which he has forced along sell well, although they are still very short in stem.

Emil Buettner has a house of White Cloud carnations which recently have been a revelation as to the flowering quality of this variety, the plants being almost a solid mass of bloom.



A CARNATION HOUSE OF A. LAUB & SONS, HUGHSONVILLE, N. Y.

(From photograph taken November 1, 1902.)

P. J. Hauswirth moved into his new Michigan avenue store December 15. He has not yet received his new fixtures but has ample room to handle the Christmas trade.

There will be no meeting of the Florists' Club next week, the usual night falling on Christmas eve. The next meeting will be January 14.

The bowlers will take a respite until after New Years, when they will begin in earnest in the preparations for the Milwaukee contest.

At the Schafer place on Balmoral avenue they are again in good shape, after their narrow escape from freezing when a boiler gave out.

The J. D. Thompson Carnation Company reports having already delivered 50,000 rooted cuttings of *Echthra* carnation.

Sam. Pearce has been marketing tulips for the past ten days.

Visitor: Henry Baer, of Peoria, Ill.

New York.

BUSINESS OF THE WEEK PRINCIPALLY PROSPECTIVE.—GOOD SUPPLIES FOR HOLIDAY ARE ASSURED.—LOW GRADE MATERIAL NOT LIKELY TO REALIZE LARGE RETURNS.—TOO MANY VIOLETS.—PLANT NOVELTIES.—PERSONAL AND TRADE NOTES.

The cut flower people are busy preparing for the approaching holidays and speculating on the problem of the nature and extent of the demand that will have to be met and this constitutes a good proportion of the present week's work, for otherwise very little is being done. To the fact that the weather has been most unpropitious may be ascribed largely the escape of this market from a serious overstock and embarrassing depression of values, a condition that has characterized mid-December business in most years for a long time. It would seem that an average good crop of roses is safely in sight for Christmas, thus precluding any danger of a holiday famine and, while gilt-edged, selected stock can undoubtedly be floated at customary Christmas prices, it does not seem likely

that the main product will command values that are in any degree sensational. Carnations at present are holding their own well, considering everything, and as in the case of the roses, may be expected to show some good-sized figures for preferred fancy varieties and grades, while the main crop will do very well if it maintains present prices. Violets are of very fine quality generally and so heavily in overstock as the extensive increase in the number of producing establishments would lead us to expect. Bulbous stock increases daily and we have now, besides the usual Paper Whites and Roman hyacinths, a sprinkling of yellow narcissi and tulips, the latter being both ill-timed and of miserable quality. Poinsettias are in evidence in large quantities on all sides and are usually large and handsome.

Poinsettias in pans, low-grown, are among the most showy goods offered by the plant growers. In flowering plants the Lorraine begonias take the lead, those in wire baskets to be suspended in the window being the most popular. The local supply of this popular plant is likely to be augmented by shipments all the way from Cincinnati, for J. A. Peterson, of that city, is here this week to take orders therefor, and as the samples he shows are very fine there would be no difficulty in placing them all were it not for the doubt as to the possibility of transporting them safely. Among the choicest things in flowering plants are neat little specimen camellias well set with buds and bloom. Imported English holly in handsomely trained pot plants and loaded with berries are among the most effective decorative material seen in the pretentious Fifth avenue stores.

"Phil.", Daillouze Brothers' well-known driver, met with a severe accident in a collision with a trolley car while driving to market last Saturday morning, sustaining a broken nose and other painful injuries.

A. S. Burns, Jr., is sending to John I. Raynor, from his new greenhouses at Spring Valley, some Flora Hill carnations of remarkable perfection.

Louis Roessel, the well-known manu-

facturer of artificial flowers, died at his home in Brooklyn, December 10, aged 72 years.

John Hennessy, 74 years of age, father of J. S. Hennessy, of Roslyn, L. I., died December 11.

Alfred Dimmock sailed for England on Wednesday, December 17.

Visitors: J. A. Peterson, Cincinnati, O.; Geo. E. Fancourt, Wilkesbarre, Pa.; S. H. Moore, New Haven, Conn.; Ed. Seecy, Paterson, N. J.

Philadelphia.

TRADE FAIR FOR JUST BEFORE THE HOLIDAYS.—STOCK SCARCE AND INDICATES PICKLING.—ALL ABOUT THE PRICES.—WEATHER MODERATES.—STORES FIXING UP.—A NEW PRODUCING ESTABLISHMENT.

Business is good for the season, the stock in almost all lines keeping scarce. As usual at this time of year the pale, washed out stock is beginning to appear. The weather is blamed, but, while it has been cold and cloudy and may have affected the color somewhat, there is a salty look that is undeniable. Prices are still mounting. Teas range from \$6 to \$15 per hundred. Liberties sell as high as \$20. Beauties sell for from \$1.50 to \$6 per dozen. The quality is all that can be desired. Carnations are in good demand at prices ranging from \$2 to \$3, with \$4 to \$8 asked for the fancies. Mignonette sells for \$3 to \$4, bonvardia \$2.50 to \$3. Violets are so scarce that it is scarcely worth quoting them; \$1.50 is the price for good doubles, but many now coming in should have been picked two weeks ago and urgent appeals for more fail to move them. It is to be the same old story, none now to supply the demand but quantities of salted stock that will not be sold for Christmas.

The weather has moderated considerably and cleared off and the outlook for the next week promises well. A week of good sunshine would work wonders and put life and color into the flowers, a quality much to be desired. There promises to be a great business done on the street by the countrymen, who are to be found in every corner in the shopping district. Good holly wreaths are scarce; as much as \$25 per hundred is asked for good medium-sized stock.

The Philadelphia Carnation Company is to be the name of a new concern which will soon erect houses for carnations at Secane, Delaware county. The extent of the initial plant will be 20,000 feet. Horace Dumont, the well-known commission merchant, and Harry R. Crawford, son of Robt. Crawford, Jr., are principal owners of stock.

The stores are being decorated attractively with quantities of red immortelle work, wreaths and bells galore, with their wealth of scarlet bows, giving the interiors a very brilliant appearance. Holly, so far, is pretty good, notwithstanding the predictions that prime stock would be scarce; \$3 to \$5 per case is the price.

Albert Kelsey delivered an illustrated lecture before the Fairmount Park Art Association last Thursday evening, his subject being "Parkways and Monumental Thoroughfares." It was listened to by a large and thoroughly appreciative audience.

President Burton, of the S. A. F., has reached home again after an extended trip through Canada and the west with John N. May and expresses himself as greatly pleased with what he saw of the trade in his travels. K.

Toronto.

CLUB ELECTS OFFICERS.—LIST OF THE NEW BOARD.—CONVENTION PREPARATIONS.—A CARNATION SHOW.—GOOD STOCK AND HEAVY CROP AT DUNLOP PLACE.—COLD WEATHER RETARDS BUYING.—A VARIETY OF LOCAL NOTES.

Election night did not bring out the number expected at the regular meeting of the Florists' Club, December 16. The following officers were elected: President, Wallace W. Wood; vice-president, D. Robertson; second vice-president, William Ford; secretary, E. Collins; assistant secretary, Arthur Twiner; treasurer, George Mills; executive committee, J. H. Dunlop, Thomas Manton, William Jay, A. Watkins, George Douglas, D. J. Sinclair and H. G. Dillemath. Mr. Dunlop and Mr. Manton both spoke of the C. H. A. convention to be held in Toronto, in 1903, and all members were urged to attend regularly, so as to keep in touch with what was going on. The usual annual carnation show will be held in March and from the attendance and exhibits already assured from outside points, this meeting will prove valuable to any interested in carnation growing.

At John H. Dunlop's establishment the stock is in better shape this Christmas than it has been for some seasons past, and this is saying a good deal. Roses are clean and vigorous and in Brides and Bridesmaids there is an excellent crop showing, on some benches plants averaging five and six buds, which will all be ready in good time. Beauties are very well colored, though a little shy of bloom. Morgan, Perle and Sunrise all look well. The carnation houses have the same appearance of health and vigor. Many of the newer varieties look exceedingly well and have no doubt come to stay. His violets are also good. On the Princess of Wales the flowers are almost as large as pansies, with stems fourteen inches long. He will also have a few longiflorums, azaleas and Gloire de Lorraine which will be just right.

The past week has been rather erratic as far as business is concerned. Severe weather did not improve business for the retailers. Stock of all kinds is good and a few days of sunshine would make the color all that is desired. Carnations are fairly plentiful and of a very good quality. There are a few freesias and jonquils already on the market. Violets are the scarce article and are likely to be until after the holidays.

At Grobba & Wandrey's, in Mimico, they have thousands of cyclamens in excellent shape. This city is usually dependent on this firm for this plant. They also have a nice lot of azaleas in full bloom, a nice bench of violets, a fine lot of jonquils and other bulbous stock.

A freeze-out in the store of J. Simmons did considerable damage to his palms and ferns. Many of the boilers had to be remodeled for burning soft coal slack. The old style usually choke up very easily, and with the thermometer at 12° below zero this is not very desirable.

Several of our wholesalers report being sold out of red immortelles. An unusual demand has been experienced this season.

W. J. Gammage, of London, is sending in some very nice plants of Lorraine begonia, besides some nice assorted ferns.

James Goodier, formerly orchid grower at Exhibition Park, has accepted a position in the vicinity of New York.

Mrs. Harriet Townsend, relict of the late E. J. Townsend, of Hamilton, passed away on December 16.

H. G. D.

St. Louis.

CLUB MEETS AND ACCEPTS AN INVITATION TO BELLEVILLE.—GROWER NOW MAYOR OF ILLINOIS CITY.—TRADE AND OTHER NOTES OF LOCAL DOINGS.

The December meeting of the St. Louis Florists' Club was held with only fourteen members present. A committee of three, consisting of J. J. Beneke, F. M. Ellis and F. J. Fillmore was appointed to get up an entertainment some time in February. H. G. Berning brought up the matter of the raise of fifty per cent in express charges and after some discussion it was decided to appoint a committee of three wholesalers to co-operate with Mr. Smith or any of the other workers in this affair. J. W. Dunford, Jr., read a very interesting paper on greenhouse construction. Dr. A. S. Halstead, mayor of Belleville, was to have read an essay on chrysanthemums, but has been very busy and was excused until next meeting. He acquired this new title at a very recent date. The regularly elected mayor was elected county judge and the Doctor was elected by the council to fill the vacancy. He has asked the club to hold its January meeting in Belleville, where he will make it pleasant for all who can attend. The meeting will be held in the Commercial Club rooms and will be called at 2 p. m.; it will be necessary to leave East St. Louis at 1 o'clock to get there on time. The best way is to take the car at the Missouri side of the bridge and ask for a transfer at Collinsville avenue to the Belleville car. At the recent session Mayor Halstead had a vase of his seedling carnations, a cross between McGowan and Alaska, a cross between Alaska and Flora Hill, and a cross between McGowan and Daybreak. All are good.

A few clear days will bring stock in nicely for Christmas and New Years. Violets continue to be scarce in this section, due to their blooming so heavily in October and November. The prices are not expected to run above those of last year.

F. J. Foster has again removed his store to 507 Olive street from 1000 Olive street. He should do a good business here, as it is in the busiest section of the city.

Theodore Miller has his windows fixed up in grand style for the holidays, principally with a red effect, although some very fine Lorraine begonias are used.

Mrs. Ellison, of Ellison & Tesson, has a very beautiful window, made up principally with plants set in Indian baskets. This firm is setting up a series of table decorations at the Simmons Hardware Company store. Mr. Ellison is down from Chicago for the holiday season.

Julius Schray has been laid up for some time with a lame foot, upon which he dropped an iron bar.

Charles Cannon has sold his fixtures and trade to L. R. Townsend. R. J. M.

ATLANTIC CITY, N. J.—D. B. Edwards has sold his business to the Edwards Floral Hall Company, incorporated, of which he will be manager.

BENTON HARBOR, MICH.—Samuel Gentle has sold his interest in the Colby-Hinkley Company to give his entire attention to the Twin City Floral Company.

CHATTANOOGA, TENN.—Wm. Karsten, brother of John Karsten, the well-known florist, was stricken with apoplexy while on the street, December 10. He is recovering.

Syracuse, N. Y.

GROWER DECIDES TO WITHHOLD LONG-CHERISHED SEEDLING.—MUCH MONEY SACRIFICED.—GOOD STOCK SHOWN.—TRADE BRISK AND ALL WELL PLEASED.

L. E. Marquisee has decided that his Empire State carnation is unworthy and not a cutting will be sent out, nor will it be grown in his own place. It is remarkable that a carnation which looked so vigorous and promising, one which attracted such favorable attention at the Indianapolis carnation meeting, merits such a fate. The ordeal through which it passed during the summer in the field evidently impaired its vitality. Its behavior since being housed proved anything but encouraging. The decision not to send it out cost Mr. Marquisee nearly \$3,000, for he had booked orders amounting to upward of 25,000 cuttings. His three new seedlings, a white, a red and a variegated, which will be shown in Brooklyn in February and which will likely be put on the market in the spring of 1904, all look well. The white is free, of good form and size, with a stem and calyx that are all right. The scarlet is a free producer and a fancy. The variegated seems certainly ahead of Bradt in every way. Barring the Empire State, Mr. Marquisee's carnations are in splendid condition, his own Marquis sustaining all the claims he ever made for it. Nelson and Cressbrook vie with each other for supremacy. The former, considering its sickly condition at the time it was disseminated, has certainly made remarkable progress and is doing splendidly.

P. R. Quinlan & Company are cutting some fine Brides, Bridesmaids, Golden Gates and Ivories. The latter, in the opinion of Mr. Bard, is a most valuable acquisition, one that has come to stay. Their American Beauties are fully up to their standard and will yield a fine crop for Christmas. Perles do exceptionally well here and Meteors are coming along, of good quality and in paying quantity. Their carnations are strong, a heavy crop in sight.

L. A. Guillaume is well pleased with his new location on the outskirts of the city. With a well equipped range of houses, plenty of ground and no factories or dwelling houses to obstruct the light, his Lawsons average three and one-quarter inches in diameter. Marquis is decidedly fine in every way; Crane and Estelle behave splendidly and Queen Louise "blooms all the time." NOMIS.

Detroit.

CLUB HOLDS WELL ATTENDED AND INTERESTING MEETING.—SHOW MATTER POSTPONED.—CARNATION SOCIETY TO BE INVITED.—GOOD BUSINESS IN SIGHT.—VARIOUS NOTES.

The club meeting Wednesday evening was one of great interest to the large number of members present. It had been previously announced that the matter of a fall flower show would be considered, but after much animated discussion of the subject, showing a wide diversity of opinion bearing on the proposition, it was finally laid on the table until the next meeting. But on another matter of importance there was a complete unanimity of favorable opinion, that of inviting the American Carnation Society to hold its meeting of 1904 in our city. A vote taken showed everyone in favor of extending the invitation and in the event of its acceptance preparations will commence immediately after the Brooklyn

meeting in February, where a big delegation will be present from this city. A vase of Lillian Pond carnation was on exhibition, sent by S. J. Reuter, Westerly, R. I. The variety elicited much favorable comment, the stiffness of stems being particularly noticeable.

Active preparations for the holiday trade are being made in all directions and everyone is looking forward to an immense business. Already many flowering plants, palms and Boston ferns are being sold for Christmas delivery. At present, indications point to a decided scarcity of carnations and violets for the holidays, while the supply of roses will be much short of the demand. Christmas greens are on the market in great quantities, but each recurring season sees a decrease in the amount of this class of stock handled by retail florists and the greens business is now chiefly in the hands of the grocers and street vendors.

Frank Holzagle is the proud possessor of a house of 1,200 poinsettias in prime condition for Christmas. Two of his rose houses will be in with a heavy crop at the right time.

Louis Rush is suffering with a severe attack of rheumatism.

Visitors: John Burton, Philadelphia; John X. May, Summit, N. J.; Thos. J. Wade, New York; A. L. Vaughan, Chicago; E. J. Fancourt, Philadelphia.

J. F. S.

Boston.

GREENHOUSEMEN OF NEW ENGLAND SUFFER FROM COLD.—SEVERAL FREEZE-UPS REPORTED.—CONDITIONS FAVORABLE FOR OUTDOOR MATERIAL.

Greenhouses in this section have been subjected to an unprecedented test for the past two weeks. The wintry weather, which started in with a furious snow storm on December 5, has continued with little abatement ever since, breaking all December records in many respects. Through all this the coal famine has grown more and more desperate, soft coal even being unobtainable in some localities. Wood, much of it freshly cut and green, or sometimes a combination of soft coal and wood, is the only fuel available for many growers and all have had their hands full, day and night, struggling against the fierce elements and adverse conditions. Many places have suffered more or less damage from freezing. Among the establishments thus reported is that of C. J. Dane, at Winchester, which was frozen up on Sunday night, December 7, because of a bursted boiler. Quite a number of the smaller florists in rural communities throughout New England, despairing of securing fuel at living prices, have shut down and abandoned their houses for the balance of the season and some of them will probably not resume.

Conditions so far seem to have been favorable to outdoor plants and shrubs of doubtful hardiness. There was nothing more than a mere skim of frost in the ground when the snow came and buried everything deep and if this blanket should only lie through the winter at its present depth it would be an inestimable benefit, but this is almost too much to expect in this section.

ST. PAUL, MINN.—Mrs. H. H. Bunde's daughter Clara, aged 18 years, died very suddenly December 17.

LOOMIS, CAL.—The California Carnation Company, A. Mitting, manager, has bought out the Western Carnation Company, E. N. Faucher, manager.

Meetings of Florists' Clubs.

The accompanying list gives the cities in which there are active florists' clubs.

BALTIMORE, MD.—Gardeners' Club of Baltimore Royal Arcanum building, 18 W. Saratoga street. Second and fourth Monday of each month, at 8 p. m. John J. Perry, Sec'y, Gay and Eager streets.

BOSTON, MASS.—Gardeners' and Florists' Club of Boston, Horticultural Hall. Meets second Tuesday of each month. W. E. Fischer, Sec'y, 18 Union Terrace, Jamaica Plain, Mass.

BROCKTON, MASS.—Brockton Gardeners' and Florists' Club, store of W. W. Hathaway, Times Building. First and third Tuesday of each month, at 8 p. m. W. W. Hathaway, Sec'y, Brockton, Mass.

BUFFALO, N. Y.—Buffalo Florists' Club, 481 Washington street. Second Wednesday of each month, at 8 p. m. Wm. Legg, Sec'y, 1440 Delaware avenue, Buffalo.

CHICAGO, ILL.—Chicago Florists' Club, Handel Hall, 40 Randolph street. Second and fourth Wednesday of each month, at 8 p. m. George Wienhoeber, Sec'y, 413 Elm street, Chicago.

CINCINNATI, O.—Cincinnati Florists' Society, Jabez Elliott Flower Market. Second Saturday of each month, at 8 p. m. George Murphy, Sec'y, West Price Hill.

CLEVELAND, O.—Cleveland Florists' Club, Progress Hall, 241 Detroit street. Second and fourth Monday of each month, at 8 p. m. Isaac Kennedy, Sec'y, Woodcliffe, Lake avenue, Cleveland.

DENVER, COLO.—Denver Floral Club, 323 Charles Block. Second and fourth Friday of each month at 8 p. m. Adam Halmer, Sec'y.

DETROIT, MICH.—Detroit Florists' Club, Cowie Building, Farran and Gratiot avenue. First and third Wednesday of each month at 8 p. m. J. F. Sullivan, Sec'y, 214 Woodward avenue.

HAMILTON, ONT.—Hamilton Gardeners' and Florists' Club, 126½ James street, North. First and third Tuesday of each month at 8 p. m. Chas. M. Webster, Sec'y.

HARTFORD, CONN.—Hartford Florists' Club. Second and fourth Tuesday of each month at 8 p. m. J. F. Coombs, Sec'y, 688 Main street.

INDIANAPOLIS, IND.—State Florists' Association of Indiana, Commercial Club rooms, Indianapolis. First Tuesday of each month, at 8 p. m. H. Junge, Sec'y, 456 E. Washington street, Indianapolis.

MONTREAL, QUE.—Montreal Gardeners' and Florists' Club, Alexandria rooms, 2204 St. Catherine street. First and third Monday of each month W. H. Horobin, Sec'y, 23 Closse street.

NEW YORK, N. Y.—New York Florists' Club Civic Hall, 128 East Twenty-eighth street. Second Monday of each month, at 7:30 p. m. John Young, Sec'y, 51 West Twenty-eighth street, New York.

OMAHA, NEB.—Nebraska Florists' Society, City Hall. Second Thursday in each month at 8 p. m. Louis Henderson, Sec'y, 1519 Farnam street, Omaha.

PHILADELPHIA, PA.—Florists' Club of Philadelphia, Horticultural Hall, Broad street above Sorce. First Tuesday of each month, at 8 p. m. Edwin Lonsdale, Sec'y, Wyndmoor, Philadelphia Pa.

PITTSBURG, PA.—Pittsburg and Allegheny Florists' and Gardeners' Club, at rooms of Pittsburg Cut Flower Co., 504 Liberty street. Second Thursday of each month, at 8 p. m. T. P. Langhans, Sec'y, 504 Liberty street, Pittsburg.

PROVIDENCE, R. I.—Florists' and Gardeners' Club of Rhode Island, 95 Westminster street, Providence. Second Thursday of each month, at 8 p. m. Alexander Rennie, Sec'y, 41 Washington street, Providence.

RICHMOND, IND.—Richmond Florists' Club, Commercial Club rooms. First and third Friday of each month. H. C. Chessman, Sec'y.

SALT LAKE CITY, UTAH.—Salt Lake Florists Society, office of Huddart Floral Company, 214 E. Second South street. Second and fourth Friday of each month. P. T. Huddart, Sec'y.

SAN FRANCISCO, CAL.—Pacific Coast Horticultural Society. First Saturday and third Monday of each month. Thos. H. Munroe, Sec'y.

SEATTLE, WASH.—Seattle Commercial Horticultural Club, First and Cherry streets. First Wednesday of each month. Wm. Hopkins, Sec'y, 622 First avenue.

ST. LOUIS, MO.—St. Louis Florists' Club, Odd Fellows Hall No. 2, Ninth and Olive streets. Second Thursday of each month, at 3 p. m. Emil Schray, Sec'y, 4101 Pennsylvania avenue, St. Louis.

TORONTO, ONT.—Toronto Gardeners' and Florists' Association, St. George's Hall, Elm street. Third Tuesday of each month, at 8 p. m. W. C. Jay, Sec'y, 438 Spadina avenue.

UTICA, N. Y.—Utica Florists' Club, 183 Genesee street. First Thursday of each month at 8 p. m. J. C. Spencer, Sec'y.

WEST HOBOKEN, N. J.—North Hudson Florists' Club, store of H. C. Steinhoff, Hudson boulevard, West Hoboken. First Tuesday of each month, at 8 p. m. Geo. F. Kogge, Sec'y, 616 Washington street, Hoboken.

THE AMERICAN FLORIST

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Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to secure insertion in the issue for the following Saturday. Address

AMERICAN FLORIST CO., Chicago.

Now is the time to take extra precautions against fire.

WHOLESALE hands are again well cleaned up on Begonia Gloire de Lorraine.

THE blizzard in the east caught many growers napping or with insufficient supplies of fuel.

GROWERS will do well to remember that next Easter will be two weeks later than last, the date being April 12.

THE next annual meeting and exhibition of the American Carnation Society will be held at Brooklyn, N. Y., February 19-20.

THERE is a profusely illustrated account of the Detroit parks, by Alfred Rehder, in *Mollers' Deutsche Gartner-Zeitung* of December 6.

EARLY "copy" will be in order the next two weeks. Because of Christmas and New Year holidays, contributions and changes of advertising "copy," usually in season on Thursday, should be mailed to reach us Wednesday.

JAPANESE fern balls do vastly better the second year than during the first after importation, according to the Garfield Park Floral Company, Chicago, and the truth of this statement is shown in the condition of this firm's specimens at the present time.

It is announced that L. E. Marquisee, of Syracuse, has decided not to send out his white seedling carnation, Empire State, after booking orders for 25,000 cuttings of it. Dailedouze Bros., of Flatbush, will not disseminate the scarlet seedling exhibited at Philadelphia in November, 1901, labeled G. D. I. and winner of the Craig cup. And Isaac Passmore, of West Chester, Pa., has withdrawn his seedling Dora for lack of keeping qualities. Surely the millennium is close at hand.

The S. A. F. Proceedings.

We are in receipt of a copy of the report of the proceedings of the eighteenth annual convention of the Society of American Florists, held at Asheville, N. C., August 18-22, 1902. The pamphlet of some 212 pages contains a full account of the meeting, with papers, etc., read thereat, and much miscellaneous information of value to the members, including lists of new plants introduced and registered during the previous year. We note that in compliance with the suggestion of President Burton and motion of ex-President O'Mara a paeonia committee has been appointed, with Edwin

Lonsdale, of Chestnut Hill, Pa., as president, and Geo. C. Watson, of Juniper and Walnut streets, Philadelphia, Pa., as secretary. Among the corresponding members of this committee we note the following illustrious names: Kelway & Sons, Langport, Somerset; Thos. S. Ware, Feltham, Surrey; J. Backhouse & Son, York; Alfred Dimmock (Sander & Co.), St. Albans; R. H. Vertigans & Co., Chad Valley, Birmingham; Barr & Sons, Covent Garden, London; A. & C. Pearson, Lowdham, Notts; J. Veitch & Son, Chelsea, London, England; C. Paillet, Orleans, France; Louis Van Houtte, Ghent, Belgium; E. Krelage & Son, Haarlem, Holland; Jno. Forbes, Hawick, Scotland. All communications with reference to this committee and its work should be addressed to Mr. Watson.

Forcing Etherized Plants.

In our issue of December 13 Frederic Harris, of Hanburg, Germany, was given credit for some good work under the above head, when the name should have been Frederic Harms, the well-known grower of lilacs, lily of the valley, etc.

Greenhouse Building.

Seattle, Wash.—Woodland Park Floral and Seed Co., range of 35,000 feet.

Secane, Pa.—Philadelphia Carnation Co., range of 20,000 feet.

Oakland, Cal.—Domoto Bros., range of ten rose houses.

Shelburne Falls, Mass.—L. R. Fuller, one house.

St. Louis World's Fair.

F. W. Taylor, acting chief of the department, states that four acres is the amount of space in the Horticulture building to be devoted to the fruit exhibit. The building will contain altogether eight acres of space, four of which are in one large room to be devoted entirely to the fruit exhibit. The conservatory for the flowers contains two acres and there are available about fifty acres of outside space upon which to plant exhibits of flowers and nurserymen's stock.

The Price of Glass.

As to French glass for import in car-load lots, f. o. b. Atlantic seaboard port of entry, Semon Bache & Company supply the following as the current discounts, figured on the American list:

Second quality, 50-foot boxes, on sizes up to thirty-four united inches, discounts of 9-20 2½ per cent; on sizes up to forty united inches, discounts of 9-20-10 2½ per cent.

Third quality, single, 50-foot boxes, on sizes up to thirty-four united inches, discounts of 9-10 7½ per cent; 100-foot boxes, 9-10-10 10 per cent. On sizes up to forty united inches, 50-foot boxes, discounts of 9-10 10-10 per cent; 100-foot boxes, 9-10-10 2½ per cent.

Third quality, double, 57-foot boxes, on sizes up to thirty-four united inches, discounts of 9-10 7½ per cent; on sizes up to forty united inches discounts of 9-10 10-10 2½ per cent.

Fourth quality, single, 50-foot boxes, on sizes up to thirty-four united inches, discounts of 9-10 5 per cent; 100-foot boxes, discounts of 9-10 7½ per cent. On sizes up to forty united inches, 50-foot boxes, discounts of 9-10 7½ per cent; 100-foot boxes, discounts of 9-10 10 per cent.

The second quality French is figured from the AA column of the American list, the third quality from the A column and the fourth quality from the B column. On thirty-four united inches the American list is: Single, AA, \$33.50; A, \$28; B, \$26.75. Double, AA, \$46.75; A, \$41.50; B, \$38.75. On forty united inches (this includes 16x24) the American list is:

Single, AA, \$36; A, \$30; B, \$28. Double, AA, \$52; A, \$45.50; B, \$41.50.

As to American window glass, Sprague Smith Company report the prices somewhat unsettled at present, but, in their opinion, the price of greenhouse glass will not be advanced.

To Attract Purchasers.

A florist who has a shop at Cologne has had the happy idea of attracting the attention of the passers-by to his show of flowers and plants by the aid of a proceeding as ingenious in itself as it is good for the plants and flowers. This idea, says the *Garden*, he has realized by making a thin stream of water flow from the top and down the inside of his shop window. The water spreads and descends over the whole surface of the glass like an extremely fine sheet. The undulations, ceaselessly changing and constantly renewed, which the sheet of water produces, considerably dim the clearness of the view of the flowers on show inside, but do not prevent one from recognizing them and admiring their freshness. These undulations produce a new and charming effect, which attracts and fixes the attention of flower-lovers, whilst the evaporation, which naturally is considerable on account of the large surface of the glass, keeps the air moist, to the very great benefit of the plants and cut flowers. The installation of this curious process is very simple. A perfectly horizontal gutter placed at the top of the glass receives a stream of water, which it pours out along its whole length upon the face of the glass. A similar gutter placed at the bottom receives the water, and in its turn empties it into a waste-pipe. The fixing of the apparatus costs but little, and the loss of water is very small. There may perhaps be an idea in this which may be useful to some florist—at any rate we have thought it interesting to point out its ingenuity.

OBITUARY.

WM. HOFFMEISTER.

Venerable Wm. Hoffmeister, of Cincinnati, died Tuesday, December 16. He was one of the pioneers of the craft, having resided in Cincinnati for over fifty years, and was actively engaged in business up to the time of his demise. His sons and daughters, who conduct the business of the Hoffmeister Floral Company, have the sympathy of hosts of friends in their bereavement.

ALLAN BARR.

Allan Barr, for the past eighteen years head gardener for Wistar Brown, Villa Nova, Pa., died on Monday, December 15, after a short illness, aged 67 years. He leaves a widow and their three sons are all engaged in gardening. Born at Beith, Ayrshire, Scotland, he came to America when a young man, spending a number of years as gardener and for some time in the florist business. The many fine specimen trees on Mr. Brown's property are mute evidence of Mr. Barr's skill and judicious planting. The evergreens, especially, show the result of careful management and are well known locally. A thorough gardener, of cheerful disposition, his absence from the ranks of the old-time gardeners will be greatly felt. All who knew him extend sympathy to the bereaved family. F. C.

The Traveling Man.

CONSIDER now the Traveling Man.

That gay and festive blade
Who goeth up and down the land.
In sporty garb arrayed
Who playeth harrow with the hearts
Of many country belles
And stoppeth like the prince he is
At all the best hotels

Now mark him as he sits him down
Outside the tavern door.
And lighteth up his good cigar
Which cost ten cents or more.
And with his comrades gathered round
He swappeth sundry lies,
Or at the village maidens fair
Doth make the goo-zoo eyes.

And presently he to the bar
With others doth repair,
And many highballs will he take
To drive away dull care.
Now would not such a life of ease
Appeal to any one?
And would we all were traveling men
Nay, wait a bit, my son.

For in the morn ere dawn hath come
From bed ariseth he,
And drosseth in a chilly room
To catch the five-ought-three.
As breakfast is not ready yet
He getteth on the train
And rideth down to Green's Cross Roads,
Perhaps an hour or twain.

And there before the tavern stove
He warmeth up his legs.
And presently he sits him down
To hash or ham and eggs,
And when to work he goeth forth
He finds to his amazement
His customer hath gone to town.
To be there several days.

He rusheth back unto the inn
To make his get-away.
And there with sinking heart he hears
The landlord calmly say:
"Was you a-going east, my friend?
Well, you are left all right.
There ain't no other train that way
Till 9:18 to-night."

So when at last the weary day
Hath dragged its leaden round,
Again the happy traveling man
Is at the station found.
And to him comes the ticket man
And cheerfully doth state:
"Jest make yourself to home, old man
Your train's three hours late."

When on the morrow he awakes
Again at work to start,
He gets a letter from his house
Which cheereth up his heart:
"We note that your expense account
Is running far too high.
We must have this curtailed at once
Or know the reason why."

Now if his overcoats at home
The mercury doth drop,
But if he's clad in winter clothes
It hovers near the top.
And all the nicest days come when
He's traveling on trains,
But it he has ten miles to drive
It either snows or rains.

At length the weary trip is done
And he is home once more.
He sees his wife an hour or so
Then drops down to "the store."
And pleasant words like these he hears:
"What, Jimmie, home so soon?
Well, get your samples up in shape
To start to-morrow noon."

Ah, envy not the Traveling Man,
For though his job seems gay,
Despite his efforts, now and then
Some work will come his way.
And when to you it seems his lot
Is one of joy alone,
Remember that the Drummer has
Some troubles of his own.

—R. L. S. in the New York Sun.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant advs. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED. By experienced seedsmen—any department, stockkeeper or mail order preferred. SEEDSMAN, care Am. Florist.

SITUATION WANTED. By a good all-around grower of plants and cut flowers, single, 21 yrs. experience. Address C. F., care Am. Florist.

SITUATION WANTED. As a traveling salesman for a reliable house in the florist line, the east preferred. Address SALESMAN, care American Florist.

SITUATION WANTED. By experienced salesman, to represent a grower in the Philadelphia cut flower market. Address PHILA. SALESMAN, care American Florist.

SITUATION WANTED. By young man, good grower of general stock, as helper in first-class establishment or could take charge of small retail place. Good wages expected. Address BOB, care American Florist.

SITUATION WANTED. By all-around florist and gardener, good on landscape and design work; private or commercial place. Good references. Address A. C. LUDWIG, 221 Second St., Marietta, O.

SITUATION WANTED. As head gardener or foreman, German, 30 years of age, unmarried, A No. 1 references. Neighborhood of New York preferred. Address J. KRAMER, care J. Blair, Ogden Mills, Staatsburg, N. Y.

SITUATION WANTED. As rose grower and propagator of A1 stock; 22 years' American experience. At liberty February 1st. Only first-class place wanted; English, married. State wages. Address DAISY, care American Florist.

SITUATION WANTED. As working foreman, who can manage help and is a good grower of all kinds of flowers; also a good designer; would like to take my head man with me. Good pay required and also a permanent place. Address MASS, care American Florist.

SITUATION WANTED. To take charge of a retail place. Good grower of roses and general cut flowers. 12 years' experience; single; age 33. A thoroughly reliable man. Ind., Ill. or Kentucky preferred. Address FOREMAN, care American Florist.

SITUATION WANTED. In retail store, after January 1, 1903. First-class designer, decorator and retail salesman; with present firm nine years. First-class references; 33 years old, and married. If you have an opening for A1 man, write or wire. A. B. WILLIAMS, care The Dahl Co., 83 and 85 Peachtree St., Atlanta, Ga.

SITUATION WANTED. By a first-class florist and gardener, all-around man in cut flowers, decorative plants and bedding stock. Carnations a specialty. Age 29, single, German; 15 years' experience. First-class references as a sober, honest and hard working man. Private or commercial place. Eastern or middle states preferred. State wages. EAST, care American Florist.

WANTED. Competent florist assistant. State wages with board. Address U. L. BRUNSON & Co., Paducah, Ky.

WANTED TO RENT. 8,000 to 15,000 square feet of glass, near Philadelphia, suitable for rose growing; partly stocked preferred. Address ROSE GROWER, care American Florist.

WANTED AT ONCE. Good steady man, experienced in growing cut flowers and bedding plants, as helper in M. C. R. R. greenhouses at Niles, Mich. Wages \$1.25 per day. Steady work. JOHN GIBNER, Chief Gardener, Niles, Mich.

WANTED. A good experienced man to work in retail department of a Western Seed House. Must be intelligent and have a thorough knowledge of garden and flower seeds, bulbs, etc. State salary expected. Address SEEDS, care American Florist.

WANTED. A married man without children, German-American preferred, to take charge of nursery where the growing of small stock for transplanting is made a specialty. Must understand the propagation of hardy shrubs and evergreens from cuttings, be sober, industrious and well recommended; \$50 per month and a house. A permanent position to the right party. Address JOS. W. VENTURA SON, Little Rock, Ark.

WANTED. Good all-around cut flower grower, single, for a place near Kansas City. Good pay to the right party. Address GROWER, care American Florist.

WANTED. A married man of small family, of general experience, capable of taking charge of 12,000 feet of glass, general line grower. House furnished. State wages wanted and give references. None who get drunk wanted. Address JAMES FROST, Greenville, Darke Co., Ohio.

FOR SALE. Greenhouses, 6,500 feet of glass, stocked with carnations, peas, palms, etc., town of 6,000. I want to go south. Address J. FRANKLIN HUNTER, Mount Holly, N. J.

FOR SALE. Horizontal tubular boiler 48x15 with plug hat dome and with 39 3/4-in. flues, very suitable for heating hot houses. Apply to WISCONSIN BOX CO., WAUSAU, WIS.

FOR SALE OR RENT. About 25,000 square feet of glass without stock. City of 80,000 population. Will sell greenhouses and business or will sell business and rent greenhouses, or will rent greenhouses without business. Rare opportunity for a first-class grower. Address BROOKSIDE GREENHOUSES, Reading, Pa.

WANTED NURSERY CATALOGUES.

Address NEGAUNEE NURSERY AND GREENHOUSES, NECAUNEE, MICH.

For Sale or Exchange.

Fully stocked greenhouses, 20 miles from Chicago, 25,000 feet of glass; steam heat; paying well; part cash, balance good real estate or time to right party. Address V J 95, care American Florist.

For Sale Three Greenhouses with 2 acres land.

or more if wanted. Everything in running order and convenient to Cleveland market. A few minutes' walk to electric car, school, church, stores, etc. Address BOX 74, ROCKY RIVER, OHIO.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B., Grand Rapids, Mich. Will sell all or any part. Address

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

Wanted

Landscape Architect and Superintendent for the Milwaukee Public Parks System. Must be a man of good character, possess executive ability and be first-class in every respect. Give references and state salary expected. Address


The Board of Park Commissioners MILWAUKEE, WIS.

CHICAGO GARDENERS' AND FLORISTS' UNION.

The next meeting of the Gardeners' and Florists' Union will be held at 49 La Salle St. on Saturday, Dec. 27, 8 p. m. All who want to join may do so as charter members, fee \$1. After that meeting the fee will be \$5.00.

P. S.—None but good men need apply. No tailors and shoemakers wanted.

CHRISTMAS PRICE LIST.

 <p> No. 1. \$2.50 No. 2. \$3.25 No. 3. \$3.75 No. 4. \$4.50 No. 5. \$5.00 No. 6. \$6.00 </p> <p> Caldwell's Kwality Kounts Brand Wild Smilax now on hand. We can supply WHITE VIOLETS on one day's notice. </p>	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Orchids.</td> <td style="width: 50%; text-align: right;">Per Doz.</td> </tr> <tr> <td>Cattleyas.....</td> <td style="text-align: right;">\$ 7.50</td> </tr> <tr> <td>Cypripediums.....</td> <td style="text-align: right;">3.00</td> </tr> <tr> <td>Beauties. 36-inch stems.....</td> <td style="text-align: right;">12.00</td> </tr> <tr> <td>30-in. stems, \$10 00</td> <td style="text-align: right;">24-in. stems 8 00</td> </tr> <tr> <td>20-in. stems, 6 00</td> <td style="text-align: right;">15-in. stems 4.00</td> </tr> <tr> <td>12-in. stems, 2.50</td> <td style="text-align: right;">6-8 in. stems 1 50</td> </tr> <tr> <td></td> <td style="text-align: right;">Per 100</td> </tr> <tr> <td>Brides and Maids.....</td> <td style="text-align: right;">\$15.00 to \$18 00</td> </tr> <tr> <td>Meteors and Gales.....</td> <td style="text-align: right;">15.00 to 18.00</td> </tr> <tr> <td>Carnations, select.....</td> <td style="text-align: right;">4.00 to 6.00</td> </tr> <tr> <td>" " fancies.....</td> <td style="text-align: right;">7.00 to 8.00</td> </tr> <tr> <td>Stevia.....</td> <td style="text-align: right;">2 00</td> </tr> <tr> <td>Violets, double.....</td> <td style="text-align: right;">2 50</td> </tr> <tr> <td>" " single.....</td> <td style="text-align: right;">1.50</td> </tr> <tr> <td>Callas.....per dozen</td> <td style="text-align: right;">\$2.50</td> </tr> <tr> <td>Valley, extra long.....</td> <td style="text-align: right;">5.00</td> </tr> <tr> <td>" " select.....</td> <td style="text-align: right;">4 00</td> </tr> <tr> <td>Asparagus Plumosus, string, .50 to .75</td> <td style="text-align: right;">3.00</td> </tr> <tr> <td>" " Sprenger.....</td> <td style="text-align: right;">.25</td> </tr> <tr> <td>Ferns.....per 1000,</td> <td style="text-align: right;">\$2 00</td> </tr> <tr> <td>Galax.....per 1000,</td> <td style="text-align: right;">1.00</td> </tr> <tr> <td>Bronze Galax, ".....</td> <td style="text-align: right;">.15</td> </tr> <tr> <td>Adiantum, Leucothoe.....</td> <td style="text-align: right;">1.00</td> </tr> <tr> <td>Smilax.....per dozen, \$1.50</td> <td style="text-align: right;">12.50 to 15.00</td> </tr> </table>	Orchids.	Per Doz.	Cattleyas.....	\$ 7.50	Cypripediums.....	3.00	Beauties. 36-inch stems.....	12.00	30-in. stems, \$10 00	24-in. stems 8 00	20-in. stems, 6 00	15-in. stems 4.00	12-in. stems, 2.50	6-8 in. stems 1 50		Per 100	Brides and Maids.....	\$15.00 to \$18 00	Meteors and Gales.....	15.00 to 18.00	Carnations, select.....	4.00 to 6.00	" " fancies.....	7.00 to 8.00	Stevia.....	2 00	Violets, double.....	2 50	" " single.....	1.50	Callas.....per dozen	\$2.50	Valley, extra long.....	5.00	" " select.....	4 00	Asparagus Plumosus, string, .50 to .75	3.00	" " Sprenger.....	.25	Ferns.....per 1000,	\$2 00	Galax.....per 1000,	1.00	Bronze Galax, ".....	.15	Adiantum, Leucothoe.....	1.00	Smilax.....per dozen, \$1.50	12.50 to 15.00
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J. B. DEAMUD,
LONG DISTANCE PHONE 3155 Central. 51 & 53 Wabash Ave., CHICAGO.

E. H. Hunt,

WHOLESALE..... Cut Flowers

THE "OLD RELIABLE,"

76 Wabash Ave., CHICAGO.

Poehlmann Bros. Co.

Wholesale Growers of

and Dealers in Cut Flowers

All telegraph and telephone orders given prompt attention. 35-37
 GREENHOUSES: Morton Grove, Ill. Randolph Street CHICAGO, ILL.

Bassett & Washburn

76 & 78 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of Cut Flowers

GREENHOUSES: HINSDALE, ILL.

The Cincinnati Cut Flower Co.,

437-439 Main St. WHOLESALE FLORISTS.
CINCINNATI, O.

Consignments Solicited.
Special Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.

Michigan Cut Flower Exchange.

Fancy fresh cut Ferns, \$1.00 per 1000.
Discount on large orders. Give us a trial for Ferns the year around.
BRONZE GALAX, \$1.00 per thousand.

28 Miami Ave., DETROIT, MICH.

H.G. BERNING Wholesale Florist

1322 Pine St., ST. LOUIS, MO.

Frank M. Ellis, WHOLESALE FLORIST,

1316 Pine Street, ST. LOUIS, MO.

CONSIGNMENTS SOLICITED.

C. A. KUEHN, Wholesale Florist, 1122 PINE STREET, ST. LOUIS, MO.

A complete line of Wire Designs.

Pittsburg Cut Flower Co. Ltd WHOLESALE FLORISTS.

Pittsburg, Pa.

Please mention the American Florist when writing.

W. A. HAMMOND,

Richmond, Va.

Wholesale Florist.

Roses, Carnations,
Chrysanthemums, Etc.

...GEO. M. KELLOGG...

Largest Grower of...
in the West. **Cut Flowers**

Give us an order and we will please you.
Our Greenhouses at PLEASANT HILL, MO.
Our Store, 906 Grand Ave., KANSAS CITY, MO

LONG DISTANCE PHONE AT EITHER PLACE.

Holton & Hunkel Co.

Wholesale Florists.

467 Milwaukee St., MILWAUKEE, WIS.

SHIPPING LABELS FOR ...Cut Flowers

Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples....

REPRO OF THIS LEAF, POSTPAID, \$1.25.
American Florist Co.,
CHICAGO.

Wholesale Flower Markets

MILWAUKEE, Dec. 18.

Roses, Beauty, long, per doz.	2.50@3.00
" " med.	1.00@1.50
" " short	.50@ .75
" Liberty.....	8.00@12.00
" Bride, Bridesmaid.....	6.00@ 8.00
" Meteor.....	8.00@ 8.00
" Golden Gate.....	8.00@ 8.00
" Perle.....	8.00@ 8.00
Carnations.....	2.00@ 4.00
Violets.....	2.00@ 1.50
Romans, Paper Whites.....	2.00@ 3.00
Callas.....	10.00@12.00
Stevia.....	1.50@ 2.00
Adiantum.....	.75@ 1.00
Smilax.....	15.00
Asparagus.....	65.00

PITTSBURG, Dec. 18.

Roses, Beauty, specials, per doz.	6.00@8.00
" " extras	4.00@5.00
" " No. 1	2.00@3.00
" " No. 2	1.00@1.50
" Bride, Bridesmaid.....	4.00@15.00
" Meteor.....	4.00@15.00
" Liberty.....	4.00@20.00
Carnations.....	1.25@ 4.00
Paper Whites, Romans.....	2.00@ 3.00
Tulips.....	2.00@ 4.00
Lily of the valley.....	4.00@ 5.00
Violets.....	.50@ 2.00
Smilax.....	10.00@12.50
Adiantum.....	1.00@ 1.25
Asparagus, strings.....	50.00@75.00
" Sprenger.....	2.00@ 4.00

CINCINNATI, Dec. 18.

Roses, Beauty.....	15.00@75.00
" " Bride.....	4.00@ 8.00
" " Bridesmaid.....	4.00@ 8.00
" " Meteor.....	4.00@ 8.00
Carnations.....	2.00@ 6.00
Lily of the valley.....	4.00
Harrisii lilies..... per doz., \$2 00	3.00
Romans.....	3.00
Paper Whites.....	3.00
Asparagus.....	50.00
Smilax.....	12.50@15.00
Adiantum.....	1.25

ST. LOUIS, Dec. 18.

Roses, Beauty, long stem.....	.35.00@50.00
" " Beauty, medium stem.....	15.00@25.00
" " Beauty, short stem.....	4.00@10.00
" " Bride, Bridesmaid.....	3.00@ 8.00
" " Golden Gate, Carnot.....	3.00@ 8.00
" " Meteor, Perle.....	3.00@ 8.00
Carnations.....	1.50@ 3.00
Paper Whites.....	2.00@ 2.00
Romans.....	2.00@ 4.00
Tuberose.....	4.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	12.50@15.00
Asparagus Sprenger.....	1.50
" " Plumosus.....	.75@ 1.00

Shipping....

Christmas Supplies is now the order of the day. Demand is heavy, but don't hesitate to send a late order, by telegraph or telephone, if you are running short. We have large supplies of good stock, enough for all, we think, except red roses and medium length Beauties, and our force is ample to handle every order promptly. Let us hear from you.

E. C. AMLING,

The Largest, Best Equipped and most Centrally Located Wholesale Cut Flower House in Chicago.

32-36 Randolph St. L. Dis. Phones 1999 and 1977 Central. Chicago, Ill.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

CUT FLOWERS

59 WABASH AVE. CHICAGO

WHOLESALE Cut Flowers

Florists' Supplies, Seeds, Etc.
Galax and Leucothoe, Wild Smilax.
Special attention given to shipping orders.
Long distance 'Phones, Main 584 and 748.

J. M. McCullough's Sons
316-318 Walnut St., Cincinnati, O.

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.
600,000 FEET OF GLASS.
Headquarters for American Beauties.
51 WABASH AVE., CHICAGO, ILL.

FRANK GARLAND,

Wholesale Grower of Cut Flowers
SPECIAL ATTENTION GIVEN TO HARDY CUT FERNS
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JOHN MUNO, Wholesale Grower and Shipper of Cut Flowers

Room 221, 51 Wabash Ave., CHICAGO.
TELEPHONE CENTRAL 3598. All telegraph and telephone orders given prompt attention.

It is good business policy to mention the

American Florist

.....when writing to an advertiser.

BENTHEY & CO.

35 Randolph Street, CHICAGO.

F. F. BENTHEY, Manager. Wholesale and Commission FLORISTS
Consignments Solicited.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty..... WHOLESALE GROWER of CUT FLOWERS

Wholesale Flower Markets

CHICAGO, Dec. 20.

Roses, Beauty, 36-inch stems	12.00
" " 30 " "	10.00
" " 24 " "	9.00
" " 20 " "	8.00
" " 15 " "	6.00
" " 12 " "	4.00
" " 6 to 8 " "	1.50@2.00
" Liberty	10.00@35.00
" LaFrance, Chateaufort	10.00@20.00
" Bride, Bridesmaid	6.00@18.00
" Meteor, Golden Gate	6.00@18.00
" Perle	6.00@15.00
Cattleyas	\$7.50 per doz.
Violets	1.50@3.00
Carnations	3.00@8.00
Lily of the valley	4.00@5.00
Asparagus, per string, .80@.75	
Adiantum	1.00@1.50
Common ferns, per 1000	2.00 .25
Smilax, per dozen	1.50@2.00

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO
Send for weekly price list and special quotations on 1000 lots.

GEO. REINBERG,

Wholesale Grower of Cut Flowers
CHOICE AMERICAN BEAUTIES.
We will take care of your orders at reasonable prices. Prompt attention.
51 Wabash Ave., CHICAGO, ILL.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

The F. R. WILLIAMS CO. WHOLESALE FLORISTS.

Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.

Telephone Connections.

CLEVELAND, OHIO.

LIBERTIES. Samuel S. Pennock VALLEY. PHILADELPHIA.

GEO. A. SUTHERLAND
34 HAWLEY STREET, BOSTON.

Best Boston Flowers
ALL SUPPLIES.
An entire floor Devoted to Stock and Manufacturing.
Write now for quotations on Chrysanthemums and all seasonable stock.
Telephone 1270 Main.

SPECIALTIES THIS WEEK:

Christmas Evergreens.

SEND FOR PRICES.

CITY HALL CUT FLOWER MARKET

WELCH BROS., PROPS.

9 CHAPMAN PLACE, **Boston, Mass.**
15 PROVINCE STREET.

H. C. RIEDEL.

F. D. SPICER.

RIEDEL & CO.
WHOLESALE
Commission Florists.

34 West 29th Street,
NEW YORK.

Strictly Wholesale. Correspondence Invited.

THE NEW YORK CUT FLOWER CO.
55 and 57 West 26th St.,
WHOLESALE FLORISTS,
Daily Reports. Weekly Payments.
TELEPHONES: 2239 Madison Sq. J. A. MILLANG,
2034 Madison Sq. **MANAGER.**

GEORGE SALT FORD,
Wholesale Commission Florist,

46 West 29th Street, **NEW YORK.**
Fair dealing and prompt returns guaranteed.
Correspondence solicited.

Author of "How to Make Money Growing Violets."

N. F. McCARTHY & CO.
Best Quality
CUT FLOWERS
and Supplies,
Tel. 734 and 64 Main. 84 Hawley St., **BOSTON.**

Wholesale Flower Markets

BOSTON, Dec. 17.

Roses, Beauty, Edgely, extra.....	35.00@60.00
" " medium.....	15.00@25.00
" " culls.....	6.00@ 8.00
" Bride, Bridesmaid, Meteor.....	4.00@ 8.00
" extra.....	10.00@16.00
" Liberty.....	10.00@25.00
Carnations.....	1.50@ 3.00
Lily of the valley.....	2.00@ 4.00
Violets.....	.50@ 1.00
Paper White narcissi.....	2.00@ 3.00
Asparagus.....	.75@ 1.00
Smilax.....	50.00
Smilax.....	12.50@18.00

PHILADELPHIA, Dec. 17.

Roses, Tea.....	2.00@ 4.00
" extra.....	5.00@10.00
" Beauty, extra.....	40.00@ 60.00
" " firsts.....	20.00@25.00
" Queen of Edgely, extra.....	40.00@60.00
" " firsts.....	10.00@25.00
Carnations.....	1.50@ 5.00
Violets.....	1.00@ 1.50
Lily of the valley.....	3.00@ 5.00
Asparagus.....	25.00@50.00
Smilax.....	12.50@15.00
Adiantum Farleyense.....	8.00@10.00

BUFFALO, Dec. 18.

Roses, Beauty.....	25.00@75.00
" Bride, Bridesmaid, Meteor.....	10.00@12.00
Carnations.....	3.00@ 4.00
Violets.....	1.50@ 2.00
Paper Whites, Romans.....	2.00@ 4.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@30.00
Adiantum.....	1.00@ 1.50

The Philadelphia Wholesale Flower Market.
Phones, Keystone and Bell.

1224 CHERRY STREET, PHILADELPHIA.

Is now open and ready for business. Consignments of good stock solicited, especially Valley, Violets and Carnations. Commission, 10 per cent and \$50 annual stall rent, payable monthly in advance. Flowers, choice of this market, carefully packed and shipped at short notice.
Please mention the American Florist when writing.

Give Us a Trial. We Can Please You.



Roses, Carnations and all kinds of Seasonable Flowers in stock.

WM. F. KASTING, Wholesale Commission Florist,
481 Washington St., Buffalo, N. Y.
Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

Fancy or Dagger Ferns \$1 Per 1,000.

BRONZE OR GREEN GALAX \$1.00 per 1000.
PRINCESS PINE, \$6.00 per 100 lbs. **LAUREL FESTOONING,** 4c, 5c and 6c per yard. **Princess Pine Festooning,** all grades. **Pine Wreaths and Laurel Wreaths,** all grades for Xmas. Be sure and send your orders in early and you will get the best to be had.



Millington, Mass.
Tel. office, New Salem.

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg, 6th Ave. and W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock Every Morning.....

DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

THE KERVAN COMPANY

Southern Smilax; Palmetto and Cycas Palm Leaves, fresh and painted; Roping and Wreaths; Fern, Galax, Ivy and Magnolia Leaves, Leucothoe Sprays; Holly; Mistletoe; Mosses—each in its season, and its the season now for each. The best that grows. We have no other sort. Write for our list of stock with prices.

Telephone, 1519 Madison Sq.

20 WEST 27th STREET, NEW YORK.

Beauties and Valley Leo. Niessen,

IN QUANTITIES.

On and after Sept. 18th will be open from 7 a. m. till 8 p. m. until further notice.

WHOLESALE FLORIST,

N. W. Cor. 13th and Filbert Sts., Phila.

FLOWERS SHIPPED BY

JOHN I. RAYNOR

ARE THE BEST PRODUCT OF THE BEST GROWERS FOR THE NEW YORK MARKET.

Adiantum Croweanum 49 W. 28th Street, NEW YORK.
Sold here Exclusively. Tel. 1998 Madison Square.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.

Are supplying the most superb stock of FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.
SEND FOR QUOTATIONS.

Walter F. Sheridan, Wholesale Florist,

Telephone 902 Madison Square.

39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square,



MOORE, HENTZ & NASH Wholesale Commission Florists.

55 and 57 West 26th St. NEW YORK CITY.

Advice of sale note daily. Statement and check weekly. All consignments, large or small, receive the same attention. CORRESPONDENCE INVITED.

VIOLETS.

WILLIAM GHORMLEY

VIOLETS.

Wholesale

Commission

Daily Receiver and Shipper of Fresh Cut Flowers.

Orchids, Roses, Carnations, Valley, Chrysanthemums.

Telephones 2100 and 2200 Madison Square.

57 West 28th Street, NEW YORK CITY.

JOHN YOUNG

Special American Beauties,
Surpassing Carnations,
Lily of the Valley, Orchids,
and all Seasonable Flowers.
51 West 28th St., NEW YORK.
Tel. 1906 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN
NEW YORK CITY FOR

Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

WM. H. GUNTHER,
30 West 29th St., New York.
Telephone 551 Madison Square.

Frank Millang

Open from 6 a. m. to 5. p. m.

Cut Flower Exchange, 55-57 W. 26th St.
Phone 299 Madison Square. NEW YORK.

ESTABLISHED 1872.

JOHN J. PERKINS, COMMISSION FLORIST,

Solicits Consignments or Shipping
Orders. Satisfaction given in both.

Tel. 858; Madison Sq. 116 West 30th St., New York.

Bonnot Bros.

WHOLESALE FLORISTS.

55 and 57 W. 26th St. New York.
Cut Flower Exchange.

OPEN 6:00 A. M.

An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.

Traendly & Schenck

NEW YORK CITY,

38 W. 28th Street, Cut Flower Exchange.
New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

NEW YORK, Dec. 17.

Roses, Beauty, Edgely, best.....	35.00@60.00
" " medium.....	20.00@30.00
" " inferior.....	5.00@10.00
" Bride, Bridesmaid.....	3.00@15.00
" Meteor, Golden Gate.....	3.00@ 8.00
" Liberty.....	4.00@20.00
Carnations.....	1.00@ 3.00
" Fancy and novelties..	3.00@ 8.15
Violets.....	.50@ 2.50
Lily of the valley.....	3.00@ 5.00
Cattleyas.....	35.00@60.00
Dendrobium formosum.....	20.00
Romans, Paper Whites.....	2.00
Smilax.....	10.00@15.00
Adiantum.....	.75@ 1.00
Asparagus.....	35.00@50.00
" Sprengerii, doz. bun.	2.00@3.00

J. K. ALLEN

Wholesale Commission Dealer

— IN —

Cut Flowers

106 W. 28th St., NEW YORK.

Telephone 167 Madison Square.

FORD BROS.

Receivers and Shippers of

FRESH FLOWERS,

111 West 30th St., NEW YORK.
Telephone 157 Madison Square.

REPRESENTING EMINENT GROWERS.

Julius Lang

53 West 30th Street, NEW YORK.

COMMISSION DEALER in FLOWERS
TELEPHONE 280 MADISON SQUARE.

ALEX. J. GUTTMAN,

Wholesale Commission Florist,

A full supply daily of the choicest
New York and New Jersey
FLOWERS.

62 W. 29th Street, NEW YORK CITY.
Telephone 1738 Madison Square.

A. H. LANGJAHR,

Wholesale Commission Florist,

BEST FLOWERS SHIPPED AT LOWEST
NEW YORK PRICES.

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TELEPHONE 939 MAIN.

Hicks & Crawbuck, WHOLESALE FLORISTS

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Tel. 2798 Madison Sq.

BROOKLYN, N. Y.:
108 Livingston Street.
Tel. 3660-3661 Main.

EDW. C. HORAN,

55 WEST 28TH STREET,

Telephone 421
Madison Square.

.....NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, PRÉS.; C. N. PAGE, First Vice-Prés.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

IMPORTED cucumber seed is being offered in a small way.

CHARLES P. BRASLAN, of San Jose, Cal., has regained his health and is now in Chicago.

VISITED CHICAGO: Marshall H. Duryea, representing Henry Nungesser & Company, New York.

THERE was a carload of Japanese fern balls received at Vaughan's Seed Store, Chicago, December 15.

ALFRED EMMERICH, of Vilmorin-Andrieux & Company, Paris, sailed from New York on La Lorraine, December 11.

MRS. E. V. HALLOCK and daughters, and Miss Smith, of Queens, N. Y., passed through Chicago, December 19, enroute to California.

MEYER & SCHWAKE will open up at 19 Barclay street, New York, January 1; Wm. Hagemann & Company remain at 55 Dey street.

HARTFORD, CONN.—Hart, Wells & Co. have begun their winter's work of packing and unpacking seeds. The full force will be working in a few weeks.

EVERETT B. Clark and Mrs. Clark, of Milford, Conn., passed through Chicago December 18, on their way to Omaha, where they will spend two months with their daughter.

W. B. CLEVES, for the past three years with the Whitney-Eckstein Company, of Buffalo, will open a general seed business on his own account at Binghamton, N. Y., about January 1.

CONTINUED rains and warm weather are preventing the curing of the tuberose bulbs in the growing district, and both home and export deliveries will be considerably later than usual this season.

W. J. STEWART writes from New York, December 15: "Japan shipments of auratum lilies, fern balls, etc., are all late this season. High grade lily of the valley is in exceptionally short supply this year."

CHICAGO.—The holly market is not as brisk at this writing, December 19, as expected, prices for fancy stock just about holding their own with the early rates, while off quality is being cut 50 cents to \$1 per case.

ACCORDING to the *Gardeners' Chronicle* (English) there is an opening for trade in seeds, bulbs and tubers at Coruna, provided lists in Spanish are distributed. Senor Ingeniero, Director de la Granja Experimental, de la Coruna, is mentioned as one of the interested parties.

WM. HAGEMANN, who has purchased the interest of Mr. Meyer in the firm of Hagemann & Meyer, New York, has taken Ralph M. Ward into partnership under the firm name of Wm. Hagemann & Company. Mr. Ward has been in the employ of the old firm since it began business.

To say that this is the most extraordinary year the seed trade has experienced in a long time is putting it very mildly. There is not a mail that does not bring surprises as to crop shortages which developed at a time when the seeds should be in the hands of the dealers, as

they are in ordinary years. Beans, peas, sweet corn and vine seeds continue to lead the list in shrinkages from former estimates; tomatoes are equally as bad.

BOUQUET green prices have declined steadily since our last note in these columns and in line as there predicted. Ruling rates the past week have been for small lots \$3 to \$4 per crate, according to quality, and ton lots at 75 cents per 100 pounds less. The apparent surplus has been worked off pretty well at these low prices.

GERMAN growers will deliver perhaps one-half the ordered quantities of nasturtiums. The plants did not come into full bloom until the middle of September and frosts from the 18th to 20th of that month destroyed nearly the entire crop.

The invoices which are now being received contain in most cases the first intimation of these shortages.

ANDERSON, IND.—The Wilke Mfg. Company, of this city, is placing on the market attractive refrigerators for florists.

PLEASANT, ILL., MO.—Geo. M. Kellogg reports that Christmas prospects are excellent, but that for ten days prior to that time there had been no sunshine.

AURORA, ILL.—J. M. Smely is building two show houses and in the spring will put up five more structures, also an office and shipping room. Iron posts and gutters will be used. A new heating apparatus will also be installed. Shipping trade is very good and a nursery department is to be added.

OVER 2,000 ACRES IN CULTIVATION.

Braslan Seed Growers Co.

Growers for the Wholesale Trade Only.

Correspondence solicited.

SAN JOSE, CAL.



Field of Southport Red Globe Onion going to Seed, Crop 1902.

To the American Wholesale Seed Trade

We shall have pleasure in quoting special low Contract prices for seed of the under-noted varieties, which we have grown very extensively in Surrey, Essex and Lincolnshire, our principal effort being to produce the very best strains and supply them direct to the Trade at the most moderate prices. Visitors to England are cordially invited to call and inspect our trial grounds and growing crops.

PEAS.

The following are carefully saved from English grown varieties and may be relied upon for "Stock seed" or other purposes:

Alaska,	Notts' Excelsior,
Alderman,	Sutton's A. I.
Autocrat,	Sutton's Excelsior,
American Wonder,	Sharpe's Queen,
Bountiful,	Stratagem,
Daisy,	Sangster's No. 1,
Duke of Albany,	The Stanley,
Duke of York,	Veitch's Perfection,
English Wonder,	William Hurst,
Gradus,	William the First,
Lightning or Earliest of All,	Yorkshire Hero, etc.

Mangel Wurzel.

Colossal Long Red,	Yellow Intermediate,
Colossal Long Yellow,	Champion Yellow Globe,
Orange Globe,	Golden Tankard.

BEET.

Egyptian Turnip,	Globe Varieties,
Exhibition Long Red,	Improved, etc., etc.

CABBAGE.

First and Best Early,	Selected Nonpareil,
London Market,	Drumhead Varieties,
Etc.,	Etc.

CARROT.

Early Market,	Long Surrey,
New Intermediate,	Selected Altrincham,
Etc.,	Etc.

RUTA BAGA.

Long Island,	Elephant or Monarch,
	Scotch Bangholm.

TURNIP.

Early Snowball,	Yellow Tankard,
Aberdeen Yellow Varieties, etc., etc.	

Specialists in Giant Market Fancy Pansies "CORONATION STRAIN," \$4.00 per ounce, post free.

Wholesale Catalogue Mailed free on application. Special offers made on receipt of quantities required.

THE SURREY SEED CO., Ltd., REDHILL, ENGLAND.

Not for Christmas

Only, but for the entire season, you can rely upon receiving the best **Cut Flowers** the New York Market affords, if you make it your rule always to order from

Wm. Ghormley,

Wholesale Commission Florist, 53 W. 28th St., New York.

Selling agent for the most proficient and successful growers of those high-grade specialties for which this market is noted, including Violets of unsurpassed size and finish; American Beauty, Liberty, Bride, Bridesmaid and other roses; Carnations in the latest and most favored varieties; Cattleyas, Lily of the Valley, Poinsettias, Asparagus, etc., for any or all of which shipping prices will be quoted on request.

Be Wise To-day and Wealthy To-morrow.

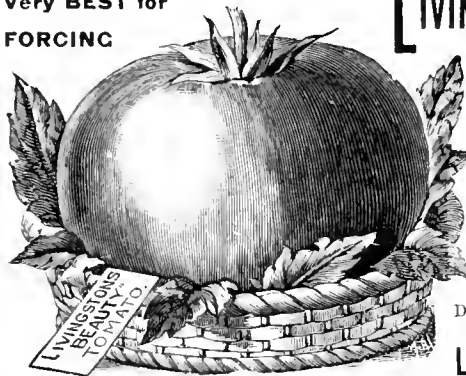
It's cheaper to Buy than to try to Grow Flowers this year.

ESTABLISHED 1802

THORBURN'S SEEDS

Send for special low prices on
DUTCH HYACINTHS
for forcing or bedding, and
LILIUM LONGIFLORUM.
J.M.THORBURN & CO.
(Late of 15 John Street)
36 CORTLANDT STREET, NEW YORK

Very BEST for FORCING



LIVINGSTON'S BEAUTY TOMATO.

Prof. W. J. Green, of the Ohio Experiment Station says:

"I am fully satisfied that Livingston's Beauty Tomato is the most profitable variety of all for growing under glass."

Prof. W. B. Alwood, of the Virginia Experiment Station says:

"Your Beauty Tomato was superb, and as usual, gave us magnificent fruit. We are using it now exclusively for winter forcing."

OUR OWN CHOICEST SELECTED SEED.
Pkt. 10c.; Ounce 25c.; 4 Ounces 75c.

Descriptive Catalogue, also Florists' and Market Gardeners' Wholesale List free on application.

Livingston Seed Co., Columbus, O.

Please mention the American Florist when writing.

GLADIOLI OUR MOTTO: QUALITY FIRST.

We have, however, a sufficient quantity to supply all demands. Send for Catalogue.

ARTHUR COWEE,
Berlin, N. Y.

"Meadowvale Farm," Long Distance 'Phone 9x. United States Grower and Representative of GROFF'S HYBRIDS.

Wanted....

Addresses of growers of GLADIOLI. We have something for you. Will be sent free on receipt of your address.

FRANK BANNING, Kinsman, O.

EXTRA CHOICE FLOWER SEEDS.

List free on application.
FRED. ROEMER, Seed Grower,
Quedlinburg, Germany.

Mushroom Spawn Fresh Importation

FERTILE. PRODUCTIVE.

English in bricks, per 100 lbs. \$6.50 f. o. b. New York, \$7.00 f. o. b. Chicago. Write for prices on quantity.

Vaughan's Seed Store,
CHICAGO. NEW YORK.

Strictly New England GROWN SEEDS.

SPECIALTIES—Onion (Southport Globes), Turnip Seed and Sweet Corn, Beet, Parsnip, Carrot, Cabbage. We can answer all questions without finching as to quality and where grown.

The E. B. CLARK CO., Milford, Conn.

TELEGRAPH CODE

OF THE

AM. SEED TRADE ASSOCIATION

\$2.00

In either stiff or flexible cover. ADDRESS ORDERS TO AMERICAN FLORIST CO., CHICAGO.

Giant Pansies In cool Greenhouse.

\$2.50 per Thousand. Cash.

BYER BROS., Chambersburg, Pa.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. ILGENFRIEZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

M. J. WRAGG, of Waukegan, has been re-elected president of the Iowa State Horticultural Society.

FRED. S. PHOENIX, of Bloomington, has been elected secretary of the Central Illinois Horticultural Society.

NIC OHMER was re-elected president of the Montgomery County Horticultural Society, in session at Dayton, O. N. H. Albaugh was elected vice-president.

THE apple crop of the United States for 1902 is estimated 43,020,000 barrels. In 1899, according to the federal census, it was 50,466,000 barrels.

JOHN PRUYN, who met reverses in the nursery business through the failure of a bank at Niles, Ind., died recently of paresis in the Kalamazoo Insane Hospital. He was 51 years of age.

FRED. N. PREVOST, for some years foreman for the Chase Nursery Company, at Highgrove, Riverside county, California, has resigned. He will devote his time to the care of orange groves in that section.

JOHN S. KERR, secretary of the Texas State Nurserymen's Association is quoted as saying: "At first blush it may seem an exaggeration, but I candidly believe that the increase in Texas orchards this season will be at least 200 per cent greater than a year ago; in other words, that there will be at least three trees planted this season to one last."

THE Rochester, N. Y., *Herald* prints the following under date of Danville, December 11: "The Stark Brothers Nursery Company, of Louisiana, Mo., has purchased the Orville T. Hartman nursery farm of 130 acres, located just outside this village. The F. E. Williams Nursery Company and the Kelley Bros. Nursery Company of this village will be associated with the Stark Bros. firm, which will make a strong combination."

Trees of Boston Common.

When in Boston Mr. Nicholson admired the methods adopted, and the results obtained, in the parks and public gardens of that beautiful city, but the trees on the Boston Common he described as in a state of semi-starvation. "If," said Mr. Nicholson, "a family of six grown persons was compelled to live upon a food supply only sufficient to maintain two persons in a healthy condition, the effect of this forced abstinence would before long show itself in the weakened physical condition of those who had been put through this ordeal."—*Gardeners' Magazine*.

[George Nicholson, formerly curator of the Royal Botanic Garden, Kew, Eng., is well known as an authority on trees and shrubs.—ED.]

San Francisco.

A TOUR AMONG NEAR-BY GROWERS.—GOOD STOCK BUT CROPS LATE FOR CHRISTMAS TRADE.—GOTTINGS OF THE JOURNEY.—BUSINESS DECLINES AFTER THANKSGIVING.—NOTES HERE AND THERE.

Messrs. Clack and Mitchell, of Menlo Park; Goertzshain, of Redwood City, and Fick, of San Mateo, visited the growers

across the bay the other day. The first place seen was John Carbone's at West Berkeley, where nothing but the best fancy carnations are grown in six or seven 100-foot houses. The stock looks good, but many splits were noticed among the Bradts, 2,000 of which are grown. Mr. Raddish, of E. Berkeley, has one large house of carnations in full bloom, Lawson being the best. J. Young, of Dwightway, has twenty-four houses of Beauties, Bridesmaids and Brides, and two houses of maidenhair ferns. The Beauties were mostly off crop but Bridesmaids and Brides were well covered with good strong buds. Mr. Young relies mostly on the spring and summer months for a good crop of Beauties, as all are planted in solid beds and more than two years old. Mrs. Young set a splendid dinner before the visitors. Fred. Abe's was the next place visited. The best Beauties to be found in the state can be seen here, a picture of health with from four to six shoots six feet long to each plant, just right for the holidays. A. Galloway's place in Fruitvale was reached after a long ride in rambling cars. He is an expert carnation grower and has invested heavily in up-to-date eastern carnation houses with iron posts and iron gutters. Two benches of Estelle, one of Lawson and one of Lorna were a fine sight.

Business since Thanksgiving has become somewhat slow, which is no surprise to any of us here, as it is a yearly occurrence. This year will find the holidays very short on roses and first grade carnations, as with very few exceptions the larger growers are behind with their crops. Prices have jumped considerably of late, the best Beauties bringing \$5 per

dozen and Bridesmaids, Kaiserins and Brides \$1 per dozen. Hobart carnations also fetch \$1 per dozen, Estelle and Lawson 50 cents and other grades 35 cents, with another twenty-five per cent increase in sight for the holidays.

Domoto Brothers' carnations are badly infested with stem rot. Two houses were not replanted at all owing to a shortage of young stock. Their plant houses look very fine, especially the kentias. Lilies have taken the place of chrysanthemums and can be seen by the thousands, with no sick ones among them. The firm has formed a stock company with \$50,000 capital, has bought thirty acres of land at Elmhurst and will shortly put up ten large rose houses.

E. W. McLellan, of Burlingame, is considerably behind with roses as well as carnations; very few flowers to the size of place will be cut for the holidays, but there is no limit to lily of the valley. Here the Easter lilies are considerably affected with disease but not half as bad as last year.

Arthur C. Cann, of San Jose, has been visiting here. He grows six houses of carnations and the whole cut goes to C. Navlet, of the same place. He says prices will not be so high as in San Francisco but quantity will make up.

A San Francisco firm whose name is held back has bought eight acres of land in Burlingame. A range of twenty modern rose houses will be put up the coming spring and others added as the season advances.

Gallert & Company have a house of smilax, one of *Asparagus Sprengeri* and another of *A. plumosus* which are fine.

GOLDEN GATE.



Almost half a century of fair dealing has given our products that prominence which merit deserves. We still offer everything of the best for

ORCHARD, VINEYARD, LAWN, PARK, STREET, GARDEN & GREENHOUSE.

Correspondence solicited. Catalogue and Trade List free. 49 years, 44 greenhouses, 1000 acres.

THE STORRS & HARRISON CO.,

Palmsville, Ohio.

Crimson RAMBLER.

5 to 6 feet, extra heavy plants, \$30.00 per 100.
4 to 5 feet \$15.00 per 100.
3 to 4 feet, \$12.00 per 100.
2½ to 3 feet, \$10.00 per 100.

The Conard & Jones Co., West Grove, Pa.

ILEX OPACA HOLLY.

Excellent, well graded and well furnished stock in sizes from 6 inches to 3 feet, at from \$6.00 to \$25.00 per 100. Send for our Trade list.

Pinehurst Nurseries, Pinehurst, N.C.



Send to **THE MOON** Company
For Trees, Shrubs, Vines
Your and Small Fruits.
Descriptive Illustrated Catalogue Free.
THE WM. H. MOON CO.
Morrisville, Pa.

Pansies Worth Raising.

Strong plants, \$4.00 per 1000; \$2.50 per 500; \$1.00 per 100, f. o. b. express here. Cash with order.

CHR. SOLTAU,
199 GRANT AVENUE, JERSEY CITY, N. J.

Please mention the American Florist when writing.

Fine Grafted ORANGES Bearing Sizes.

12 inch, bushy, from 4-inch pots.....\$20 00
15-18 inch, bushy, from 4-inch pots..... 30 00

Kin Kans 10-12 in., bushy, from 4-in. pots 20.00
15-18 in., bushy, from 4-in. pots 30.00

Lemons 12-15 in., bushy, from 4-in. pots.. 20.00
18-24 in., bushy, from 4-in. pots 30.00

Roses Climbing Clothilde Soupert, strong field-grown..... 10.00
Crimson Rambler, stg. field-grown 7.00

Clematis Aপিifolia A fine variety, somewhat similar to C. paniculata, but blooms earlier and lasts longer; strong plants from 3-inch pots.... 8.00
(Not less than 40 of a class at 100 rate.)

Citrus Trifoliata (Best defensive hedge plant.) Per 1000

Strong, 2 year old, field-grown.....\$15.00
Strong, 3 year old, field-grown..... 20.00

Amoor River Privet (Better than California Privet.)

18-24 inch, branched..... 15.00
24-36 inch, branched..... 20.00

Not less than 400 of a class at these rates.

Rubbers, Kentias, Phoenix, Latanias, Pandanus, Ornamental Trees and Shrubs in large quantities.

WRITE FOR CATALOGUE.....

P. J. BERGMANS CO. (Inc.)

FRUITLAND NURSERIES,

Established 1856. AUGUSTA, GA.

Please mention the American Florist when writing.

Garnations, Roses, Violets.

CHRISTMAS PRICE LIST Subject to Change Without Notice.

American Beauties

All lengths of stem at market prices. Supplies short. Prices, \$12 to \$15 per dozen on long; other lengths in proportion.

Brides.....	per 100.	\$10.00 to \$15.00
Bridesmaids.....	per 100.	10.00 to 18.00
Meteors.....	per 100.	12.00 to 18.00
Perles.....	per 100.	8.00 to 15.00
Golden Gates.....	per 100.	8.00 to 15.00
Liberty.....	per 100.	12.00 to 20.00
Liberty, Fancy.....	per doz.,	3.00 to 4.00
Roses, our selection.....	per 100.	7.00
Violets.....	per 100.	1.50 to 2.50
Valley.....	per 100.	3.00 to 5.00

Carnations, common.....	per 100.	\$ 2.00 to \$ 2.50
" select.....	per 100.	3.00 to 4.00
" fancy.....	per 100.	5.00 to 6.00
Paper Whites.....	per 100.	3.00 to 4.00
Romans.....	per 100.	3.00 to 4.00
Marguerites.....	per 100.	1.00 to 1.50
Mignonette.....	per 100.	4.00 to 6.00
Stevia.....	per 100.	2.00
Adiantum.....	per 100.	1.00 to 1.50
Smilax.....	per doz.,	1.50 to 2.00
Asparagus Plumosus.....	per string.	.60 to .75
Asparagus Plumosus.....	per 100.	2.00 to 3.00
Asparagus Sprengeri.....	per 100.	1.50 to 3.00
Galax.....	per 1000.	1.50
Ferns.....	per 1000.	2.00

POINSETTIAS, \$2 00 to \$6 00 per dozen.

KENNICOTT BROS CO.

Wholesale Florists,

40-42-44 Randolph St.

CHICAGO.

Pansy Plants.

	Per 100	\$.50
Large-flowering.....	\$2.50 per 1000.	
CHINESE PRIMROSES.....	1.50	
ASP. SPRENGERI, 2 1/2-inch pots.....	2.00	
GERANIUMS, 10 varieties, 2-inch pots.....	2.50	
VINCA VINES, variegated, 3-inch pots.....	4.00	
CANNA BULBS, 10 varieties, dry.....	3.00	
100 CINERARIAS, 3-inch pots.....	6.00	

CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

Orchids!



Just arrived in perfect condition,

LAELIA ELEGANS

and Cattleya Intermedia. Write for particulars.

Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

Carnations ROOTED CUTTINGS.

Cannas ALL THE LEADING VARIETIES.

Write for prices, which are right.

W. W. COLES, Kokomo, Ind.

Asparagus decumbens

Trained globe-shaped; very attractive plants, in 5-inch pots, \$6.00 per dozen.

SMALL FERNS, mixed, 2-inch pots, \$25.00 per 1000.

Cyperus Alternifolius, BARGAINS, 4-inch pots, \$10.00 per 100.

L. KOROPP, 252 W. Ravenswood Park Ave., CHICAGO.

THE NEW FERN

Anna Foster

Unqualified success. Quick seller. Very prolific. at 2 1/2-in. \$10; 3-in. \$20; 4-in. \$35; 5-in. \$50 per 100. Larger plants, prices on application.
KENTIA PALMS, \$50, \$75 and \$100 per 100
RUBBERS, 5-in. pots, 18 inches high, \$4 per doz.
L. H. FOSTER, 45 King Street, Dorchester, Mass.

GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs....
\$2.00 Per Year. Sample Copies Free.
Liberal terms to florists who take subscriptions.
THE GARDENING CO. MONON BUILDING, Chicago, Ill., U.S.A.

PREMIUM AMERICA

PANSY SEEDS

Grown by Wm. Toole, Pansy Specialist, Baraboo, Wis.
"How to Grow Pansies," with catalogue of Pansy and other seeds and plants sent free to any address. Over 80 varieties and mixtures of Pansy seeds offered. My newest variety,

COLUMBIA.

the red, white and blue, 25c per pkt. Extra Choice mixed, 10c per pkt.; trade pkt., 20c; 1/8 oz., 50c; 1/4 oz., 75c. Selected mixed, 15c per pkt.; trade pkt., 30c; 1/8 oz., 70c; 1/4 oz., \$1.20. Hesperian Mixture, 25c per pkt.; trade pkt., 50c. Send orders or inquiries to

WILLIAM TOOLE, Pansy Specialist,
PANSY HEIGHTS, BARABOO, WIS.

Please mention the American Florist when writing.

OUR DIRECTORY FOR 1902 WILL BE MAILED TO YOU

PROMPTLY UPON APPLICATION. PRICE TWO DOLLARS.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

THE bowlers are enjoying a three weeks' holiday vacation.

At Chicago.

The Chicago bowlers, in company with most of their brother craftsmen, are taking a lay-off over the holidays; most of them are too busy to be able to spare the time and too wearied with the day's activities to care for further exercise. After the first of the year they will make a fresh start and will begin determined practice preparatory to the selection of a strong team for the convention contest. It is likely that the Florists will pull out of Anson's league if it can be arranged satisfactorily. The boys are out of their class there, although not the tailenders, but that is not the reason for their contemplated retirement. Most of those who bowl at Anson's also roll in the Florists' league, and two nights a week is rather too much for a steady thing.

Joseph Foerster, of George Reinberg's city store, is the leader of the florist bowlers, from all accounts. He is a member of the Illinois team, which holds the high game record for this city. He has rolled twenty-four games, with a total of 4,783 pins, an average a fraction above 199. His best game was 234, made in the record game.

Providence, R. I.

COLD WAVE PUTS ONE GROWER OUT OF BUSINESS.—MANY SUFFER TO LESS EXTENT.—STOCK ABUNDANT FOR THE DEMANDS.—VARIOUS NOTES.

The cold snap played havoc with the growers the past week. Almost everyone reports damage of some kind. Alvertus Martin, of Warren, was completely ruined on stock, his boilers giving out through lack of water. Afterwards came a decided thaw, making the business streets impassable to shoppers and putting a damper on trade generally.

Flowers are not plentiful but are abundantly meeting all demands. Prices on carnations have advanced and the result has been to stop the demand. The limit of active business is 50 cents a dozen retail. All the down town stores, as well as the suburban florists, have felt a noticeable depression in business the past week. The scare on coal has produced a swift economy among the people and the florists suffer thereby.

The policemen's and firemen's balls were of small account from a flower standpoint. They used some palms, but nothing compared to former days.

T. J. Johnston has removed the staging from his building and is now ready for daylight inspection.

Wm. Hazard mourns the loss of his aged father.

M. M.

Buffalo.

BUSINESS IN KEEPING WITH THE SEASON.—PLENTY OF PLANTS FOR CHRISTMAS.—A FIRE AND OTHER NEWS NOTES.

Trade has been all that could be expected before the Christmas rush of

orders, which are coming in to all in a satisfactory manner. The supply of potted stock will be equal to the demand. C. F. Christensen and D. Newlands have good stocks of poinsettias. J. H. Rebstock's Gloire de Lorraine are the finest in Buffalo and Jos. Neubeck will have a good lot.

On December 11 fire destroyed a small shed at the Fred. Katoll greenhouses, which are rented by S. A. Anderson. The shed was a small loss but the heat destroyed about 800 poinsettias and 400 lilies that were in good condition for Christmas.

Jacob Wiese of the Chippewa Market, and John Pickleman opposite are getting in a good stock and making active preparations for a big holiday trade.

Violets are scarce, but everything points to a good supply next week. All we want is a few bright days and all will be well.

It is almost impossible to get an audience with W. F. Kasting now, as he is buried in holly, pine and mistletoe.

Thomas Coleman is satisfied with the success he has had so far in his new departure. He did two good decorations last week.

The department stores have decorated their windows very tastefully, using considerable florists' stock. BISON.

CARNATIONS

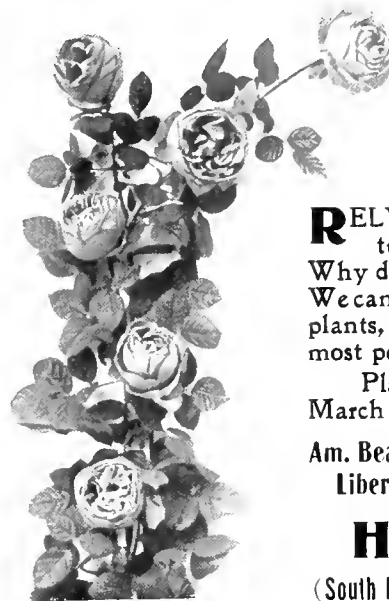
Rooted Cuttings

	Per 100	Per 1000
CRESSBROOK.....	\$5.00	\$40.00
CHALLENGER.....	5.00	40.00
FAIR MAID	6.00	50.00

500 at 1000 rates.

Other varieties, prices on application.

C. Warburton, FALL RIVER, MASS.



Stock Breeders

RELY on the general health and constitution of parentage for best results. Why does not the same rule apply to **ROSES**? We can furnish you rooted cuttings or 2¹/₂-in. plants, propagated from Roses growing in most perfect state of health and vigor.

Place orders now for February and March delivery:

Am. Beauty, Brides, Bridesmaids, Gates, Ivory, Liberty, Meteor, LaFrance, Franz Deegen.

HELLER BROS.

(South Park Floral Co.) New Castle, Ind.

Here is the Greatest Bargain in Bulbs FOR EASTER FORCING Ever Offered Almost

HALF PRICE!

If you want them. **SPEAK QUICKLY.** In order to close out stocks quickly, we offer them at the following nominal prices as long as they last.

VON SION NARCISSUS,

Selected Mammoth Double-Nosed Bulbs.

When you see them, you will want more. Extra choice! Nothing finer in double-nosed Von Sions procurable! Bulbs are in perfect condition.

\$1.50 per 100; \$13.50 per 1000 (worth \$20.00 per 1000.)

We have also a few thousand extra choice and mammoth sized bulbs of Narcissus **HORSFIELDI, EMPEROR and EMPRESS**, which we will close out at the same price, (worth \$20.00 per 1000.)

NARCISSUS PAPER WHITE GRANDIFLORA.

A few case lots, 1,400 bulbs to the case, **\$6.00 per 1000** (worth \$9.00 per 1000.)

SMALL SIZED NAMED DUTCH HYACINTHS.

These are very fine for growing in pans for Easter—nothing more salable—and there is plenty of time to get them in bloom for Easter. Bulbs offered are fine, sound bulbs—all named varieties, the choicest and best named sorts, as follows:—**Baron van Tuyll (pink), Baronees van Tuyll, Chas. Dickens (pink and blue), Gen. Pelissier, Gertrude, Gigantea, Paix de l'Europe, Grand Maitre, Grandeur a Merveille, King of the Blues, L'Innocence, La Peyrouse, Robt. Steiger, Solfatare,** etc., etc. We offer these in equal quantities of white, pink and blue, at **\$1.50 per 100; \$13.50 per 1000** (worth \$16.00 to \$22.00 per 1000.) We can also offer a limited number of

WHITE ROMAN HYACINTHS.

A lot of fine 12-15-cm. bulbs at **\$15.00 per 1000** (worth \$25.00 per 1000.)

If you can use any other bulbs for Easter forcing, send for complete List of Surplus Stock, which we are closing out at equally low prices to dispose of what stock we have on hand remaining unsold. When ordering please refer to this special offer.

F. R. PIERSON CO., Tarrytown-on-Hudson, N. Y.

PETER REINBERG

51 Wabash Ave.
CHICAGO, ILL.

The largest range of greenhouses in America and all

IN FULL CROP FOR CHRISTMAS.

We are Headquarters on Carnations and Roses of all kinds, including besides the staples
CHATENAY, LIBERTY, SUNRISE.

CHRISTMAS PRICE LIST. IN EFFECT DECEMBER 20th.

BEAUTIES	Per doz.		Per 100		Per 100
Long stem.....	\$12.00	Liberty, good	\$15.00 to \$20.00	Carnations	4.00 to 5.00
36-inch stems.....	10.00	Liberty, medium.....	8.00 to 12.00	Carnations, fancy.....	6.00 to 8.00
30-inch stems.....	8.00	Brides and Maids, good ..	10.00 to 15.00	WE OFFER A LIMITED QUANTITY OF EXTRA FANCY STOCK AS FOLLOWS:	
24-inch stems.....	6.00	Brides and Maids, medium, 6.00 to	8.00	Chatenay.....	\$20.00
20-inch stems.....	5.00	Chatenay and Sunrise	10.00 to 15.00	Sunrise	20.00
15-inch stems.....	4.00	Perle.....	6.00 to 10.00	Bridesmaid	20.00
12-inch stems.....	3.00	Ivory.....	10.00 to 15.00	Bride.....	20.00
Short stems.....	\$1.50 to 2.00	Golden Gate.....	10.00 to 15.00	Liberty, extra long stem...	\$35.00 to 50.00
		Golden Gate, medium.....	6.00 to 8.00		

ROSES, Our Selection, - - - \$6.00 per Hundred.
Short to Medium Stems, all Fresh Stock. No Charge for Packing.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Please mention the American Florist when writing.

Lily of the Valley From Cold Storage

\$15.00 per 1000; case of 2,500,
\$35.00; per 100, \$1.75.

FINEST CUT VALLEY always on hand in large quantities.

H. N. BRUNS,
1409-1411 W. Madison St., CHICAGO.

RICE BROTHERS

WHOLESALE FLORISTS and FLORISTS' SUPPLIES.

Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.
Special attention given to shipping orders. Send for price list of supplies.

128 N. Sixth St., Minneapolis, Minn.

Paper White Narcissus, \$2.00 per 100. LILY OF THE VALLEY, \$4.00 and \$5.00 per 100. JOHN WOLF, Savannah, Ga.

CHRYSANTHEMUMS, Stock Plants. White—Ivory Mrs. Robinson, Mrs. J. Jones; Pink—Mrs. Perrin, Helen Bloodgood; Yellow—Modesto, Jones, Lincoln, \$1 per doz.; \$5 per 100. Col. Appleton and Timothy Eaton, \$1.50 per doz.; \$12.00 per 100.

Seattle Floral Co., 4th and Denny Way, Seattle Wash.
Please mention the American Florist when writing.

WIETOR BROS.

Wholesale Growers of

Cut Flowers,

51 Wabash Avenue, CHICAGO.

WITH one of the largest ranges of glass in the world devoted exclusively to cut flowers, we produce first grade stock in such large quantities that we can fill orders at all times.

BEAUTIES, ROSES, CARNATIONS.

Our stock was never finer than at present. Beauty is our specialty, of which we grow 60,000 plants, 60,000 Brides, Maids and Meteors; including Liberty, La France and Ivory of choicest quality, 160,000 Carnation Plants on benches, all best sorts. Buy of the grower and get fresh stock at lowest market rates.

CHRISTMAS PRICES.	
Subject to change without notice.	
AMERICAN BEAUTY	Per Doz.
Extra long stem.....	\$12.00
39-inch stem.....	10.00
24-inch stem	8.00
20-inch stem.....	6.00
15-inch stem.....	4.00
12-inch stem.....	3.00
8-inch stem	2.00
	Per 100
Bride.....	\$12.00 to \$15.00
Bridesmaid.....	12.00 to 15.00
Meteor.....	12.00 to 15.00
Golden Gate.....	12.00 to 15.00
Perle.....	8.00 to 10.00
Ivory.....	12.00 to 20.00
Liberty.....	10.00 to 20.00
Carnations,	
extra fancy.....	6.00 to 10.00
fancy.....	5.00
good.....	4.00
All other stock at lowest market rates.	

“THE BEST WHITE CARNATION.”

Two years ago when we introduced the “HOOSIER MAID,” we claimed it would produce more good flowers from November to May, than any other white. We have not changed our opinion since. Orders booked now for February delivery at \$2.00 per 100; \$15.00 per 1000. 500 at 1000 rates. Cash or satisfactory reference.

A. RASMUSSEN, NEW ALBANY, IND.

FINE, COOL GROWN FERNS ONE CENT.

Bioris Tremula, P. Hastata; Onychium, Gymnogramma, Lygodium, Polypodium, Adiantum, P. Selaginella, Nephrolepis, etc. Transplanted singly in cool frames, good stock and liberal count. Mail orders our specialty. \$1.25 per 100, postpaid. Per 100, \$10.00.

CLARK & LEY, THUNDERBOLT FERNERIES, SAVANNAH, GA.

Please mention the American Florist when writing.

Springfield, Mass.

SEVERE COLD MAKES TROUBLE ALL AROUND.—GROWERS PUT TO IT TO KEEP FROM FREEZING.—VARIOUS NOTES.

It is years since this city has seen so much snow with the thermometer down to 14° below zero so early in the season. All greenhouse men have had a hard time in keeping from freezing. Hard coal is \$12 per ton and only to be had in 1-ton lots. Soft coal is scarce and fetches \$10 per ton. Cut flowers are plentiful and fair in quality but business is anything but satisfactory. Retailers are busy decorating their stores in the usual order for Christmas. The present outlook is for a very good holiday trade.

A. Buckleton has about 10,000 feet of glass, all in carnations, which are showing up well for the holidays. Queen Louise is his white. Harry Fenn is grown for crimson and Joost for pink. Morning Glory does not do very well; too many single flowers. J. H. Manley is a great bloomer but does not make growth, so the plants seem to get smaller. Crane and Prosperity are fine but Mr. Buckleton says the latter should fetch more than this city cares to pay.

H. Grout, who had something more than 5,000 feet of glass, was frozen up December 8, owing to lack of coal, and others had close calls. Mr. Grout has not decided on his plans for the future.

A. B.

Columbus, O.

CRAFTSMEN ALL MAKING PREPARATIONS FOR BIG HOLIDAY TRADE.—NOTES OF THE SPECIALTIES.

The Livingston Seed Company has its store window decorated elaborately with Christmas bells and green. In anticipation of a brisk demand this firm will have a larger stock of holly and bouquet green on hand than ever before.

J. R. Hellenenthal has a fine lot of stevia ready to cut. Unlike many growers he believes in giving stevia a good place under glass and it is plain to be seen that where handled thus stevia is a good holiday crop.

The Franklin Park Floral Company has a fine lot of well-grown Gloire de Lorraine begonias, a great many of which have been used during the season for table decoration.

Sherman Stephens has bright prospects for a large cut of fine roses for Christmas but the dark weather makes him feel rather uneasy.

C. A. Roth will handle but a small quantity of decorative greens this season owing to the increase in his cut flower trade.

CARL.

SAN JOSE, CAL.—G. A. Lehman says that the season brought an unusually large sale for chrysanthemum stock plants.

PALMS.

HOME-GROWN, FINE, CLEAN STOCK; GROWN COOL.

Write for Price List. J. B. HEISS,

The Exotic Nurseries, DAYTON, OHIO.

JOSEPH HEACOCK,

WYNCOTE, PA.

GROWER ARECA LUTESCENS,
...OF... KENTIA BELMOREANA,
COCOS WEDDELIANA.

Carnation Cuttings

NOW READY.

WE can ship at once well-rooted cuttings of the following varieties, free from disease and first-class in every respect. NONE BETTER and seldom equaled.

WRITE FOR QUOTATIONS AND CATALOGUE.

Mrs. Thos. W. Lawson
Gov. Wolcott
E. A. Nelson
Estelle
White Cloud
Mrs. Potter Palmer
Gaiety
Viola Allen
Crane

Golden Beauty
Apollo
Morning Glory
Queen Louise
Stella
Lorna
J. H. Manley
Joost
Enquirer

Gov. Roosevelt
Harry Fenn
Dorothy Whitney
Prosperity
Guardian Angel
Mrs. Higinbotham
Dorothy
Marquis
Cressbrook

J. D. Thompson Carnation Co.
JOLIET, ILLINOIS.

ENCHANTRESS THE GOLD MEDAL WINNER, having defeated all comers at Madison Square Garden and at Kansas City, now reigns supreme.

Having ordered a large quantity, I am still in a position to book orders for February delivery. Don't delay if you want any.

MRS. E. A. NELSON Has proved all we claimed for it—being free and continuous and ahead of its rivals in pink.

Cuttings guaranteed to be absolutely strong and healthy. January and February delivery.

PRICE, \$6 PER 100; \$50 PER 1000.

S. S. SKIDELSKY, 708 N. 16th St., Philadelphia, Pa.

Carnation Gov. Lowndes.

Color, pure white. Size, 3 to 3½ inches in diameter. Calyx, spreading at the top, making it practically non-bursting. Form, the lower or guard petals stand out straight, retaining the full size of bloom. Petals slightly serrated, and beautifully arranged, forming a full, rounded center. Odor, is very sweet and particularly pleasing. Stem, 19 inches to 2½ feet during the season, and always strong enough to carry the large flower erect. Habit, strong and vigorous; thrives well and grows rapidly. Transplants readily and comes into bloom early, and is not a cropper. It will stand closer planting than most varieties. Productiveness, extremely free flowering. More productive than any other large white. A profitable and high grade commercial variety. Price, \$2.50 per doz.; \$12 per 100; \$100 per 1000. 50 at 100 rate; 500 at 1000 rate.

H. WEBER & SONS, OAKLAND, MD.

Mushroom Spawn



Frequent importations from England. Always fresh and lively.

CARNATIONS

Strong, healthy plants, grown on high land.

Portia.....	100	1000	Eldorado....	100	1000
Scott.....	\$4.00	\$35.00	Daybreak....	\$4.00	\$35.00
	4.00	35.00		4.00	

J. J. Styer, Concordville, Pa.

ENGLISH IVY, and VINCA VARIEGATA. Rooted Cuttings, 60¢ per 100. IVY LEAVES, 20¢ per 100; \$1.50 per 1000, delivered. HYDRANGEA OTAKSA, field-grown for 6-inch or 8-inch pots, 10¢; for 1½-barrel tubs, 15 or 20 branches, 50¢. Cash.

J. H. DANN & SON, Westfield, N. Y.

A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

KENTIA Belmoreana and Forsteriana, extra clean and well grown plants, 2½, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

REX BEGONIA, 2 and 3-inch, \$4 and \$6 per 100. BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.

ASPARAGUS Plumosus, 2-inch, \$5; 3-inch, \$8 Sprenger, 2-inch, \$3; 3-inch, \$5, per 100.

DRACAENA INDIVISA, 4, 5-in., \$10, \$25 per 100

ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100

CAMPBELL VIOLETS, 3-inch, \$4.00 per 100.

VINCA VAR., 3-inch, \$4.00 per 100.

Chinese Primrose, 3-in., \$5; 4-inch, \$8 per 100

Cut Rate on GERANIUM CUTTINGS.

Single Grant, 75¢ per 100.

S. A. Nutt, Double Grant, La Favorite, Bonnot,

\$1.00 per 100.

Jaulin, Poitevine, Riccard, Mrs. E. G. Hill,

Frances Perkins, \$1.25 per 100. Cash or C. O. D.

GEORGE EMMANS, NEWTON, N. J.

Geraniums ROOTED CUTTINGS.

S. A. Nutt and La Favorite, \$1.10 per 100; \$10.00 per 1000. Healthy and well rooted. Will prepay express in United States for 15¢ per 100; \$1.00 per 1000.

S. A. Nutt from 2 or 2½-inch pots, \$2.00 per 100; \$18.00 per 1000.

ALL THE ABOVE READY TO SHIP.

CASH WITH ORDER.

DesMoines Plant Co.,

513 38th Street, Des Moines, Iowa.

How About It? What?

**YOUR XMAS ORDER ON
Cut Flowers and Decorative Stock.
Our Stock is of Best Qualities, and Prices Right.**

<p>Wire, Write, Telephone, Telegraph Your Orders.</p>	<p>Beauties.....\$3.00 to \$12.00 per doz. Brides and Maids.....\$8.00 to \$18.00 per 100 Perles.....\$6.00 to \$12.00 per 100 Liberty.....\$10.00 to \$18.00 per 100 Golden Gates.....\$10.00 to \$15.00 per 100 Meteors.....\$10.00 to \$15.00 per 100 Poinsettias.....\$3.00 to \$6.00 per doz. Carnations.....\$4.00 to \$8.00 per 100 Valley, Romans.....\$4.00 to \$5.00 per 100 Paper Whites.....\$3.00 to \$4.00 per 100 Violets.....\$1.00 to \$3.00 per 100 Lilies.....\$12.00 to \$16.00 per 100 Bouvardia.....\$3.00 to \$5.00 per 100 Stevia.....\$2.00 per 100 Margurites.....\$2.00 per 100 Mignonette.....\$3.00 to \$8.00 per 100 And all other Seasonable Stock.</p>	<p>Holly, select stock.....\$5.00 per case Holly, good quality.....\$4.00 per case Bouquet Green.....\$4.00 per case Wreathing, select.....\$3.00 per 100 yards Winter Berries.....\$2.00 per case Wild Smilax.....\$3.00 to \$6.00 per case Smilax, ordinary.....\$12.00 to \$16.00 per 100 stgs. Asparagus Plumosus.....50¢ per string Asparagus Sprengeri.....\$2.00 per 100 sprays Ferns, Common, fancy.....\$2.00 per 1000 Galax Leaves, G. or B.....\$1.50 per 1000 Leucothoe Sprays.....\$1.00 per 100 sprays California Pepper Berries.....\$5.00 per case Needle Pines, select.....\$2.00 per doz. Holly Wreaths, 12-inch.....\$1.50 per doz. Magnolia Leaves.....15¢ per 100 Mistletoe.....25¢ per lb.</p>	<p>Telegraph, Telephone, Write, Wire Your Orders</p>
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In ordering flowers it is well to mention the very highest prices your trade will justify. We will then do the very best we can for you in quality of stock at prices you mention.

**McKellar & Winterson,
45-47-49 Wabash Ave. Tel., Main 1129. CHICAGO.**

CARNATIONS

ROOTED CUTTINGS.

ETHEL CROCKER.....\$10.00 per 1000
DOROTHY, NELSON, CRESSBROOK,
ENQUIRER, QUEEN LOUISE, ALBA,
LORNA, HER MAJESTY, APOLLO,
ESTELLE, ADONIS, MORNING GLORY,
GAIETY, MRS. HIGINBOTHAM,
PROSPERITY, ROOSEVELT.

Let me estimate on your orders, and please state how many of each variety will be wanted and when they are to be delivered.

ALBERT M. HERR, LANCASTER, PA.

Miss Louise

Faber

The Longest Stemmed
and Most Fragrant
Carnation in Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink shade, similar to a well colored Bridesmaid rose and average 3 to 3½ INCHES. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for FEBRUARY delivery from now on.

FICK & FABER, SAN MATEO, CAL.

MURPHY'S WHITE

CARNATION, ROOTED CUTTINGS, \$6 per 100; \$50 per 1000; \$40 per 1000 in 10,000 lots.

CUT BLOOMS of carnations in quantity.

WM. MURPHY,

Phone Main 4411, 130 E. 3rd St., Cincinnati, Ohio.

J. GAMMAGE & SONS, London, Ont., Agents for Canada.

CARNATIONS.

350,000 Well Rooted Cuttings NOW READY.

	Doz.	100	1000		Doz.	100	1000
Gov. Wolcott, white.....	.60	\$4.00	\$35.00	Norway, white.....	.30	\$1.00	\$10.00
Alba, white.....	.60	4.00	35.00	Lorna, white.....	.30	1.00	10.00
Golden Beauty, yellow.....	.60	4.00	35.00	Gold Nugget, yellow.....	.30	2.00	15.00
Virolina, variegated, very nice	1.25	9.00	75.00	Lawson, pink.....	.30	2.00	15.00
Mrs. Palmer, scarlet.....	.60	4.00	35.00	Bon H. Richard, white.....	.30	2.00	15.00
Mrs. Higinbotham, light pink..	.60	1.00	35.00	Egypt, maroon.....	.30	1.00	10.00
J. H. Manley, scarlet.....	.60	1.00	35.00	Queen Louise, white.....	.30	2.00	15.00
Viola Allen, variegated.....	.60	4.00	35.00	Crane, scarlet.....	.15	1.00	10.00
Gaiety, fine variegated.....	.60	4.00	35.00	Genevieve Lord, light pink.....	.15	1.00	8.00
Harry Fern, crimson.....	.60	4.00	35.00	Evanston, red.....	.15	1.00	8.00
Apollo, scarlet.....	.60	4.00	35.00	Tidal Wave, pink.....	.15	1.00	8.00
Dorothy Whitney, yellow.....	.65	1.50	40.00	Joost, pink.....	.15	1.00	10.00
Stella, Dorner's variegated.....	.60	4.00	35.00	Mermaid, salmon, fine.....	.15	1.00	7.00
Corbett, salmon.....	.40	3.00	25.00	Portia, scarlet.....	.15	1.00	10.00
Dorothy, pink.....	.40	1.50	10.00	Wm Scott, pink.....	.15	1.00	7.00
Chicot, white.....	.50	3.00	25.00	Argyle, pink.....	.15	1.00	10.00
Gov. Roosevelt, maroon.....	.35	2.00	15.00	Eldorado, yellow.....	.15	1.00	7.00
Prosperity, white splashed pink	.35	2.50	20.00	Gen. Maevø, maroon.....	.15	1.00	10.00

Write for prices on large quantities. 6 at 12 Rates; 25 at 100 Rates; 250 at 1,000 Rates.

Terms Spot Cash, prepaid to your city at above prices.

All rooted cuttings sold under express condition that if not satisfactory on arrival, return immediately, when money will be refunded.

**CALIFORNIA CARNATION CO.,
Loomis, California.**

All The Best CARNATIONS

The Leading Novelties of 1903.

The Best Varieties of 1902.

All the Standard Varieties.

Order your Rooted Cuttings NOW.

GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

ALWAYS A WINNER!

Governor Wolcott

3,000 stock plants in perfect condition. Order now for January delivery: \$5 per 100; \$45 per 1000; \$200 per 5,000.

Henry A. Stevens Co., East St. Dedham, Mass.

Denver.

CUT FLOWER RECEIPTS LIGHT AND SHORT OF THE DEMAND.—PLENTY OF PLANTS FOR CHRISTMAS.—CLUB OFFICERS.

Unless cut stock comes on much faster the next two weeks than in the past two, supply is going to fall short for the holiday trade. While the past two or three years have been decidedly "plant years," it is to be hoped that this year it will be the same, for on plants the market is well supplied. Poinsettias are very good and the big firms have made them a specialty. Azaleas also will be plentiful and quality very good. Some very fine cyclamens and Gloire de Lorraine begonias are to be seen, which are going well now. Holly and greens have not turned up in any great quantity as yet but we expect the usual amount will be handled before the rush is over.

At the meeting of the Denver Floral Club, held last Friday evening, the following officers were elected for the coming year: President, E. W. Davies; vice-president, John Roland; second vice-president, John Massie; secretary, Adam Balmer; treasurer, A. M. Lewis.

On cut flowers high prices will no doubt prevail, owing to the shortage. Carnations will be the scarcest item and probably most in demand. Violets, valley, Romans and Paper Whites are about the only flowers that will run even with the demand.

Trade has been lively the past week, dinners and receptions being quite numerous and a few good sized decorations have been called for. B

MINONK, ILL.—J. Knapp, formerly in the greenhouse business, is now running a grocery.

SAN FRANCISCO, CAL.—Gustave Gagne is now nicely located in his new quarters at 2337-2347 Lombard street, where business is opening well for him.

NEW FANCY CARNATION "TIGER."

Color, orange, striped pink, effect of Sunrise rose. Size, 2½-3½-inch, stem 2-3 feet, straight as a wire. Habit, every shoot going to flower at once, dark green foliage; no supports necessary. Calyx, extra strong, seldom splits. Flower, type of Mayor Pingree.

Notes, it is an early, continuous and free bloomer. Shown and won prizes at Kansas City, New York and Baltimore this fall.

Be your own judge. Sample ½ doz. for 50c prepaid. The 50c you can deduct from your first order. 12 for \$1.50; \$10.00 per 100; \$75.00 per 1000. 25 at 100 rate, 250 at 1000 rate. 10,000 ready Jan. 1st.

J. D. THOMPSON CARNATION CO., Joliet, Ill., Western Agents.

HENRY EICHHOLZ, Waynesboro, Pa.

GERANIUMS Rooted Cuttings

HETERANTHE	Big	100	\$1.25	1000	\$10.00
BUCHNER	lot		1.25		10.00
VIAUD	now		2.00		15.00
CASTELLANE	ready		2.00		15.00
PERKINS			2.00		15.00
POITEVINE			2.00		15.00
LANDRY			2.00		15.00
RICCARD			2.00		15.00
S. A. NUTT			1.25		10.00

ACTEON, LA FAVORITE, LA PILOT, BONNOT AND CASTRIS, \$1.50 per 100.

ALBERT M. HERR, LANCASTER, PA.

Mum Stock Plants

Robinson, Merry Xmas, Wanamaker, Monrovia, Bassett, Lincoln, Whildin, Murdock, Kalb, Bonaffon, Childs, Halliday, Appleton, Sunderbruch, Perrin, Pacific. \$4.00 per 100.

Eaton and Chadwick, \$6.00 per 100.

JOHN BROD, 349 W. North Ave., CHICAGO.

Please mention the American Florist when writing.

YELLOW EATON

GOOD JUDGES pronounce it the most valuable commercial Chrysanthemum to be introduced in the spring of 1903. Its color captivates everybody and it has all the other good qualities of Timothy Eaton, without the coarseness sometimes attributed to that variety. \$5.00 per doz; \$30 per 100. Delivery of young stock, March 1, 1903.

ROBERT CRAIG & SON, Market and 49th Streets, PHILADELPHIA, PA.

PRELIMINARY LIST OF

New Chrysanthemums

and other NOVELTIES NOW READY.

Will be pleased to mail to these interested.

Nathan Smith & Son ADRIAN, MICH.

CHRYSANTHEMUMS Large Strong Stock Plants from Bench.

Bentley, 35c each; \$3.00 per doz. C. Holst, 25c each; \$2.00 per doz. Honesty, 25c each; \$2.00 per doz. Prosperity, 25c each; \$2.00 per doz. Providence, 25c each; \$2.00 per doz.

T. Eaton, Appleton, Maud Dean, Childs, Mrs. Chamberlain, Liberty, Chadwick, Orizaba, Lady Roberts, Golden Wedding, Golden Beauty, Brant, \$1.50 per doz.; \$8.00 per 100.

Mrs. E. D. Smith, White Bonaffon, R. H. Pearson, Bergmann, Willowbrook, Ivory, October Sunshine, Merry Monarch, The Queen, Mrs. J. Jones, Bonaffon, Lucie Faure, Niveus, Eclipse, \$1.00 per doz.; \$6.00 per 100. 6 plants of one variety at doz. rate; 25 at 100 rate.

H. WEBER & SONS, OAKLAND, MD.

White CARNATION MARIAN

Just as good to ship as it is to keep at home. Rooted cuttings, \$5.50 per 100; \$45.00 per 1000. Delivery after Jan. 15.

Pips of DORA, any time, \$2.00 per 100. Cash with Order.

ISAAC A. PASSMORE, West Chesler, Pa.

SPECIALTIES

ROSES, from 3-inch pots. In Best CARNATIONS, for all delivery, Varieties CHRYSAETHUMS, SMILAX, VIOLETS.

Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.

BEGONIA GLOIRE DE LORRAINE, Begonia Light Pink Lorraine,

For July and Later Delivery, \$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near Chestnut Hill, Pa.

Please mention the American Florist when writing.

'MUM

Stock Plants, Extra Fine.

TIMOTHY EATON, GOLDEN WEDDING, XENO, OCTOBER SUNSHINE, WHITE JONES, YELLOW JONES, SNOW QUEEN, COL. APPLETON, \$8.00 per 100; \$1.50 per doz.

BASSETT & WASHBURN,

76-78 Wabash Avenue, CHICAGO, ILL.

Please mention the American Florist when writing.

Stock 'Mums.

THREE BEST EARLIES:

MONROVIA, Yellow.

Glory of Pacific Pink.

White POLLY ROSE

Also all other commercial varieties at \$5.00 per 100. Cash please.

Carl Hagenburger, W. Mentor, Ohio.

HERRON...

Carnation Grower,

OLEAN, N. Y.

Please mention the American Florist when writing.

REDUCED RATES FOR CHRISTMAS AND NEW YEAR HOLIDAYS.

The Nickel Plate Road will sell tickets December 24, 25 and 31, 1902, and January 1st, 1903, at rate of a fare and a third for the round trip, to any point located in Central Passenger Association territory, good returning to and including January 2nd, 1903. Pullman service on all trains. Individual Club Meals, ranging in price from 35c to \$1.00, served in dining cars. Address John Y. Calahan, General Agent, 113 Adams St., Chicago, for particulars. Chicago city ticket office, 111 Adams St.; Depot, Harrison St. and 5th Ave.

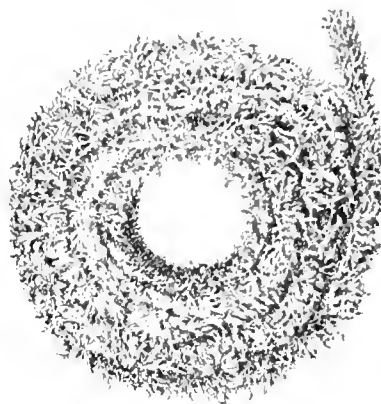


VAUGHAN'S XXX Holly

MISTLETOE
BOUQUET GREEN
WREATHING

Best qualities and lowest market prices.

Write or wire. Special catalogue free.



VAUGHAN'S SEED STORE, Chicago AND New York

Please mention the American Florist when writing.



Order Direct From
Headquarters.

New Crop of Bronze and Green

GALAX

\$1.00 per 1000 in 5000 lots.

A No. 1 quality.

Dagger and Fancy Ferns,

\$1.00 per 1000. A 1 quality.

Laurel Festooning, good and full, 5 and 6c a yd.

Princess Festooning, made round, 5 and 6c yd.

Laurel Wreathes, made good and full at

market prices.

Southern Smilax, \$4.00 and \$7.00 per case.

Selected stock.

Sphagnum Moss, 50c per bag; \$1.00 a barrel.

All orders by mail, telephone or telegraph will

receive our personal attention and prompt delivery.

Telephone long distance 2618 Main.

HENRY M. ROBINSON & CO.

32-34-36 Court Sq., Boston, Mass.

GALAX

BRONZE OR GREEN, \$1.00 per 1000; 75c per 1000 in

5,000 lots.

LEUCOTHOE SPRAYS, BRONZE OR GREEN, \$1 per 100.

FANCY FERNS, \$1.50 per 1000.

SOUTHERN SMILAX, per 50 lb. case, \$6.00; per 35 lb.

case, \$4.50; per 25 lb. case, \$3.50.

PALM LEAVES, \$1.50 and \$2.00 per 100.

NEEDLE PINES, \$1.50, \$2.00, \$2.50 per doz.

GREEN SHEET MOSS, fresh stock, per bbl. sack,

\$2.50.

HOLLY, choice stock, \$4.50 per case 4x2x2.

BOUQUET GREEN, selected, \$6.50 per 100 lb. crate.

AMERICAN MISTLETOE, extra fine, \$6 per 25 lb. case.

LAUREL AND PRINCESS PINE ROPING at market price.

L. J. KRESHOVER, 110-112 W 27th St., N. Y.

Tel. Call 597 Madison Sq.

GALAX LEAVES AND Leucothoe Sprays.

J. G. LOVEN, MONTEZUMA, N. C.

Please mention the American Florist when writing.

Galax AND Leucothoes.

Selected, Bright and Brilliant.

Wholesale Trade Solicited.....

J. L. BANNER & CO., Montezuma, N. C.

FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)

Write, Wire or Phone the Introducers,

Caldwell The Woodsman Co., Evergreen, Ala.

or their agents: L. J. Kreshover, New York; J. B.

Deamud, Chicago; H. Bayersdorfer & Co.,

Philadelphia; W. F. Kastig, Buffalo; J. M.

McCallough's Sons, Cincinnati, Ohio; Vail Seed Co.,

Indianapolis.

Please mention the American Florist when writing.

Rooted Carnation Cuttings

NOW READY.

	Per 100	Per 1000		Per 100	Per 1000
Alba, white	\$4.00	\$35.00	Chicot, white	\$3.00	\$25.00
Golden Beauty, yellow	4.00	35.00	Gov. Roosevelt, maroon	2.50	20.00
Cressbrook, white	4.00	35.00	Prosperity, white-splashed pink	2.50	20.00
Mrs. Palmer, scarlet	4.00	35.00	Norway, white	2.00	15.00
Mrs. Higginbotham, light pink	4.00	35.00	Lawson, pink	2.00	15.00
J. H. Manley, scarlet	4.00	35.00	Morning Glory, shell pink	2.00	15.00
Viola Allen, variegated	4.00	35.00	Queen Louise, white	2.00	15.00
Gaiety, fine variegated	4.00	35.00	Crane, scarlet	1.00	10.00
Harry Fenn, crimson	4.00	35.00	Mermaid, salmon, fine	1.00	10.00
Apollo, scarlet	4.00	35.00	Armazindy, variegated	1.00	10.00
Dorothy Whitney, yellow	4.50	40.00	Eldorado, yellow	1.00	10.00
Mrs. Joost, pink	1.00	10.00			

UNROOTED CUTTINGS AT HALF ABOVE PRICES.

TERMS CASH. We prepay express charges. If plants are not satisfactory, on arrival, return at once and we will pay return charges and refund your money. Our cuttings are grown OUT DOORS and rooted WITHOUT HEAT and are therefore strong and hardy and free from disease. SEND US ONE DOLLAR and we will mail you SAMPLES at HUNDRED RATES. Orders booked for future delivery.

Giant Flowering Pansy Plants, mixed, \$3.00 per 1000.

Marie Louise Violets, \$3.00 per 100; \$25.00 per 1000.

ALL CHARGES

PREPAID.

LOOMIS FLORAL CO., Loomis, Cal.

The Best White Carnation to Date **The Queen**

Reaches highest standard in size, form, calyx, stem, productiveness and keeping quality. A sure winner where ever shown. Price per 100, \$10.00; 250, \$22.50; 500, \$37.50; 1000, \$75.00.

Little South Floral Co., So. Natick, Mass. S. J. Goddard, Framingham, Mass.

LILLIAN POND A Large and Fancy White.

Unlike most fancies it is free and continuous. Starts in to bloom early, sending out large flowers on long stems. It is a strictly fancy flower at all times and commands top notch prices. Order at once and you will not regret it. PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00. Orders booked now for February delivery.

S. J. REUTER, WESTERLY, R. I.

Please mention the American Florist when writing

M. L. Henderson

OF LAURELBRANCH, N. C.,

is located in the mountains of North Carolina, where as fine a galax leaf grows as grows in the world (green or bronze). Price given on application. Wholesale trade solicited.

Galax, Leucothoe, Etc.

We are situated in the heart of the finest section known for the above evergreens:

Galax, Green or Bronze ... \$.50 per 1000

Leucothoe Sprays (green) ... 2.00 per 1000

Spruce tips ... 1.00 per 1000

Silver pines ... 1.00 per 1000

These prices are cash, f. o. b. Elk Park, N. C.

We handle nothing but the best. All orders promptly filled.

F. W. RICHARDS & CO., BANNER ELK, N. C.

Chicago Carnation Co.
Joliet, Illinois.

Carnation Cuttings

We are now booking orders for rooted cuttings. List of varieties and prices sent on application.

The Cottage Gardens, Queens, L. I.

Cincinnati.

WEATHER UNFAVORABLE TO CUT FLOWER PRODUCTION.—STOCK LIKELY TO BE SHORT FOR HOLIDAYS.—GOOD WINDOWS.—CLUB MEETS.—VARIOUS LOCAL NOTES.

The meeting of the Florists' Society was well attended Saturday night and a good deal of routine business attended to. Frank Ball resigned as secretary and was succeeded by George Murphy. Mr. Ball's business takes up his time and he could not attend to the duties. The committee was instructed to proceed with the schedule of premiums for the February and March exhibitions. A committee was appointed to draft resolutions of sympathy for John Lodder and family. Albert Sunderbruch and E. G. Gillett were appointed by the chair to meet with the Fall Festival Association and act in accordance with their plans for next year.

With the dark weather of the past two weeks and the growers holding back for Christmas, good stock has been scarce. Carnations, violets and calla lilies are very scarce and from present indications this market will be very short on good flowers for the holidays. Harrisii lilies are selling well at \$2 per dozen. There is not much demand for poinsettias, on which this market is well supplied. We have a fine lot of lily of the valley, Romans and Paper Whites, also good smilax.

Some very fine window decorations are to be seen around town. Julius Baer has his window trimmed all in yellow, surrounding orange plants well fruited. A great many Begonia Gloire de Lorraine are to be seen in the windows and they are fine. Fred. Gear has one window in red and the other in white.

There is an unusually good demand for holly, the call for Delaware exceeding the supply, and southern holly is substituted. The southern holly is used in conjunction with ilex berries for making wreaths, and fine wreaths they are, too. D.

Seattle, Wash.

PROSPEROUS CONCERN REORGANIZES AND BUILDS NEW PLANT.—NOTES.

The Woodland Park Floral Company has been incorporated and is now building a large greenhouse plant, comprising about 35,000 feet of glass and to be increased to 100,000 feet this coming spring. The houses will be modern in every respect and when completed this establishment will be one of the finest in the west. The chief product will be roses and carnations and also lettuce, tomatoes and cucumbers under glass. The officers and stockholders are: President, Alfred Peterson; vice-president, Gus. Bjorgman; treasurer, Ed. Marriatt; secretary, Carl Anderson. Mr. Peterson and Mr. Marriatt are the owners of the old Woodland Park Floral Company, so favorably known on the Pacific coast, where they have been engaged in the florist business for a number of years. The new firm, when ready to do business, will be known under the name of the Woodland Park Floral and Seed Company. C. A.

ROSES

We have in 2x2½-inch pots the following varieties of Roses: 3,000 Maids, 2,000 Kaiserins, 9,000 Perles, 400 Golden Gates, 2,500 La France, 350 Pres. Carnots, 250 C. Souper, 4,000 Ivory, 1,000 Woottons. Get your order in early for shipment.

WRITE GEO. A. KUHL, PEKIN, ILL.

Please mention the American Florist when writing.

PALMS, FICUS AZALEAS, Etc.

PALMS.

KENTIA BELMOREANA, 2½-in. pots, \$6.00 per 100; \$50.00 per 1000.

KENTIA BELMOREANA, 3-in. pots, \$12.00 per 100; \$100.00 per 1000.

AZALEAS, 10 to 12-in. crowns, \$35 per 100.

" 12 to 14-in. crowns, \$45 per 100.

" 14 to 15-in. crowns, \$55 per 100.

AZALEA MOLLIS, good forcing stock, at \$4.00 per dozen.

RHODODENDRONS, for forcing, well set with buds, 18-24 in. high, at \$9.00 per dozen.

FICUS ELASTICA.

4-in. pots, heavy strong stock, \$20 per 100. 5-inch pots, 18 to 20 inches, \$30.00 per 100.

DEUTZIA (Fine for Forcing)

LEMOINEI, 18 to 24 inches, \$8.00 per 100.

GRACILIS, 18 to 24 inches, \$8.00 per 100.

SPIRAEA JAPONICA, \$3.00 per 100.

COMPACTA, \$3.50 per 100.

FLORIBUNDA, \$4.50 per 100.

CYCAS REVOLUTA, 60c, \$1.00, \$1.25 \$1.50 and \$2.00 each.

BOSTON FERNS, 2½-in. pot, \$3.00 per 100.

PRIMULA CHINENSIS, 2½-in. pots, \$2.50 per 100.

The Storrs & Harrison Co.

PAINESVILLE, OHIO.

Asparagus Plumosus Nanus....

From 5-inch pots, fine, \$3.50 per doz.; \$25.00 per 100.

ASPARAGUS SPRENGERI

good strong, from 5-inch pots, \$1.50 per doz.; \$10.00 per 100.

BEGONIA REX

12 vars., 2-in., 60c per doz.; \$4 per 100.

CENTRAL MICHIGAN NURSERY,
Kalamazoo, Mich.

Please mention the American Florist when writing.

ROOTED CUTTINGS

COLEUS, 48 var., 70c per 100; \$6.00 per 1000.

PETUNIAS, 20 var., \$1.25 per 100; \$10.00 per 1000.

ALY-SUM, large, var., single and double, \$1.00 per 100.

HELIOTROPE, 14 var., \$1.00 per 100; \$8 per 1000.

AGERATUMS, 5 var., 60c per 100; \$5.00 per 1000.

SALVIAS, 6 var., \$1.00 per 100; \$8.00 per 1000.

Express prepaid on R. C. Cash with order.

Write S. D. BRANT, CLAY CENTER, KAS.

Pansy Plants.

MME. PERRET, the finest strain on the market, large plants that will bloom soon at 50c per 100; \$3.50 per 1000; 3,000 for \$10.00.

J. C. SCHMIDT, BRISTOL, PA.

ELECTROS...

For Catalogue Purposes.

WE have a large assortment of strictly high-class halftones of which we can supply electros suitable for catalogue illustration. If you need anything in this way, state your requirements and we will submit proofs of the illustrations in stock.

Price for cash only 15 cents per square inch.

THE AMERICAN FLORIST CO.,
.....324 Dearborn St., CHICAGO.



BURBANK'S Shasta Daisy.

Mailing size plants, \$5.00 per 100; \$40.00 per 1000. 25 at 100 rates, 250 at 1000 rates. Prepaid at above figures. Trade list now ready for 1903.

CALIFORNIA CARNATION CO.
LOOMIS, CAL.. U. S. A.

Please mention the American Florist when writing.

PANSIES

Roemer's Superb Prize Pansies.

STRONG, FINE STOCKY PLANTS,

Mixed colors, by mail, 75 cents per 100; \$3.00 per 1000; per 10,000, \$25.00.

Large transplanted plants, in bud and bloom, \$1.25 per 100 \$10.00 per 1000.

CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

Please mention the American Florist when writing.

Notice. Plantsmen wishing to catalogue the great **Shasta Daisy** please correspond with me. I have a large stock for spring delivery.

S. J. CALLOWAY, Eaton, Ohio.



AZALEAS.

All the best sorts, such as Bernard Andrea Alba, Deutsche Perle, Vervaereana, Simon Mardner, Mme. Van der Cruyssen, Virginiana, Empress of India, and many others.

PRICE IN ASSORTED LOTS, FOR EARLY ORDERS.

10 to 12-inch crowns, bushy plants.....	\$40.00 per 100
12 to 14-inch crowns, bushy plants.....	50.00 per 100
14 to 16-inch crowns, bushy plants.....	60.00 per 100
16 to 18-inch crowns, bushy plants.....	\$12.00 per doz.
18 to 20-inch crowns, bushy plants.....	25.00 per doz.
20 to 22-inch crowns, bushy plants.....	30.00 per doz.
22 to 24-inch crowns, bushy plants.....	36.00 per doz.

We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

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Extra choice lot of compact, bushy, pot-grown plants.	
2½-inch pots.....	\$5.00 per 100
3-inch pots.....	10.00 per 100
4-inch pots.....	25.00 per 100
5-inch pans.....	\$40.00 per 100
6-inch pans.....	9.00 per doz.
7-inch pans.....	12.00 per doz.

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GREENHOUSES, WESTERN SPRINGS, ILL.

BUCKLEY'S December Special.

Smilax Do you need Smilax? If so, forward your order at once and we will furnish you extra blue 2¼ inch at 50c per 100; \$5 per 1000.

Geraniums The leading and best budders, Jean Viaud (the pink novelty), \$2.00 per 100. S. A. Nutt (crimson), Alphonse Riccard (scarlet), E. G. Hill, Beaute Poitevine (salmon), Mme. Jaulin, \$1.50 per 100; \$14.00 per 1000.

Verbenas Our 20th Century Collection, 25 new mammoth varieties, all labeled, strong plants from 2¼-10ch, \$1.50 per 100; \$12.50 per 1000.

Asp. Sprengeri Strong, 2½-inch, \$2.00 per 100; 2-inch, \$1.25 per 100; \$10.00 per 1000.

Petunias Ten novelties from Dreer's latest sets, strong R. C. \$1.25 per 100.

Feverfew LITTLE GEM, rooted cuttings, 75 cents per 100.
2-in. \$1.25 per 100; 2½-in., \$2.00 per 100.

Marguerites CHRYSANthemum FRU-TESCENS, both white and yellow, \$1.00 per 100.

Salvia Two best: St. Louis and Bonfire, 75 cents per 100.

Alyssum Double Giant, strong rooted cuttings, \$1.00 per 100.

The W. T. Buckley Plant Co., Springfield, Ill.

CARNATIONS

20,000 Mrs. Fisher, R. C. and 2-inch.

GERANIUMS

10,000 rooted cuttings and 2½-inch.

Boston Ferns

Any size, from 2½ to 10-inch.

Asparagus

PLUMOSUS, 2½, 3 and 4-inch.
SPRENGERI, 2½, 3 and 4-inch.

Write **GEO. A. KUHLE, PEKIN, ILL.**

CHOICE ASPARAGUS PLUMOSUS

for Xmas, 4-in., fine, \$15 per 100; 5-in., \$25 per 100.

STOCK Chrysanthemums, \$5 a 100; 75c a doz. Well furnished with cuttings.

WHITE: Fitzwygram, Bergmann; Queen, Robinson, Ivory, Jones. **YELLOW:** Whildin, Bonnafon, Wedding. **PINK:** Pacific, Morel, Perrin, Mand Dean. Special and scarce kinds—Chadwick, white; Childs, red; Appleton, yellow. \$6 per 100; 75c per doz. **W. H. GULLETT & SONS, LINCOLN, ILL.**

FERNS.

2¼-inch Mixed Ferns.....\$3.00 per 100 Cash
2½-inch Dracaena Indivisa..... 3.00 per 100 or
25 Mixed Ferns, prepaid..... 1.00 C.O.D.

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Hardy Herbaceous Plants.

Japanese Iris, German Iris and Paeonias, Specialties.

Golden Glow, Eulalias, Day Lilies, Hardy Sunflowers, Dragon's Head, Cone Flowers, Boltonias, Sedums and a long list of other valuable kinds in large supply. Please write for lists of varieties and prices; they will probably surprise you.

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We have the largest stock in the country. May importation, raised from top cuttings only. 3½ to 6-inch pot plants, from 20, 22, 23, 24 and up to 26 inches high, 3, 4 and 5 tiers, 70c, 75c, 80c, 90c and \$1.00 each. Our specimens are perfect beauties, as broad as they are high. 6-inch pots, 5 to 6 tiers, very large, prices very low, for we must move them to make room for Easter plants, \$1.00, \$1.25, \$1.50 to \$1.75 each.

A BIG MISTAKE you make if you try another firm, because we are specialists and are large importers and carry strictly the largest and cheapest stock of Araucaria Excelsa.

KENTIA BELMOREANA and **FORSTERIANA**, 6-inch pots, first-class stock only, 3 to 4 years old, from 25 to 36 inches high, only 75c to \$1 each.

Cash with order please. To save express mention if pots to be taken off.

Godfrey Aschmann,

WHOLESALE GROWER AND IMPORTER OF POT PLANTS.

1012 Ontario Street, PHILADELPHIA, PA.

ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong, 2½-inch, \$3.50 per 100.

SPRENGERI, strong, 2½-inch, \$2.50 per 100.

BOSTON FERNS.

From bench fit for 3, 4, 5, 6, 7 and 8-in., 2½c, 5c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA

Extra fine, 4 to 7-inch pots, only 12c per leaf.

25 FINE RUBBER PLANTS, 3 feet, \$1 each, or the lot for \$20.00. CASH PLEASE.

A. J. BALDWIN, NEWARK, OHIO.

PANSIES

The Jennings Strain.

Small plants, \$4.00 per 1000, by express. Large plants, ready to bloom, \$1.00 per 100; \$8.00 per 1000. Seed, \$1 pkt.; \$5 per oz. Cash with order. **E. B. JENNINGS, Lock Box 254, Southport, Conn.** Grower of the Finest Pansies.

Please mention the American Florist when writing.

WANTED

To purchase the following plants:

GERANIUMS Jean Viaud, 300; S. A. Nutt, 300; 2-inch pots.

Vinea Var., 3-inch pots, 100.

English Ivy, 2-inch pots, 50.

Asparagus Sprengeri, 2-inch pots, 50.

Cyperus Alternifolius, 3-inch, 100.

Alternanthera, red and yellow, 1000 of each, r. c.

COLEUS Golden Bedder and Verschaffeltii, 300 of each, rooted cuttings.

Salvia Splendens and Bonfire, 2-inch pots, 50 of each.

Boston Fern, 3-inch, 50.

Cineraria Hybrida, 3-inch, 200.

Also state prices on the following Palms in 4-inch pots:

Dracaena Indivisa, 25.

Kentia Belmoreana, 25.

Kentia Forsteriana, 25.

Pandanus Ut.ilis, 10.

Lantana Borbonica, 25.

Phoenix Canariensis, 25.

Araucaria Excelsa, 15.

Must be good strong plants.

Anyone having all of these or a part of them for sale, address

G. H. STIMSON, KRAMER, IND.

CYCLAMEN

PERSICUM SPLENDENS GIGANTEUM.

Finest strain in the world, ready for immediate shipment, a splendid stock of plants, well budded, from 3-inch pots, \$6.00 per 100; \$50.00 per 1000; from 3½-inch pots, in bud and bloom, \$10.00 per 100; \$90.00 per 1000.

PAUL MADER, East Stroudsburg, Pa.

SPECIAL OFFER FOR SHORT TIME

Only to make room, extra fine lot

MIXED FERNS

from 2-inch pots, strong and well grown, \$3.00 per 100; \$25 per 1000. All good varieties. Do you want a lot of Cyclotium Falcatum at \$3.50 per 100?

BEARD BROS., 1248 W. Fort St., Detroit, Mich.

Minneapolis.

BUSINESS SHOWS LITTLE CHANGE.—STOCK FOR ALL DEMANDS.—SOCIETY WEDDING MAKES MUCH WORK.

Trade conditions underwent no decided change last week. There seems to be stock enough to meet demands, although the call for tea roses, Beauties and violets has exceeded the supply somewhat. Carnations are not in oversupply but the buyers find sufficient in the city so that heavy shipments have not been received. The price is from \$2.50 to \$3.50 per 100 for choice stock.

The Hefelfinger-Bell wedding, which has been in progress for the last week or two, causing many social events, called for one of the most lavish decorations of the season and the florists would all like to see many more such affairs.

The Minneapolis Floral Company is preparing to enlarge its plant at Thirty-sixth street and Calhoun boulevard.

Oscar Swanson, manager of A. S. Swanson's Minneapolis store, reports last week full of decorations.

Holly will be short here this Christmas. Visitor: John Nordine, of Lake City.

C. F. R.

Sandusky, O.

WEATHER COLD BUT TRADE IS ACTIVE.—NOTES OF HOLIDAY PREPARATIONS.

The weather has been very cold, but trade is good. At the Central Greenhouses everyone is busy getting ready for Christmas. The stock is in fine shape. The roses and carnations are giving good cuts. Cyclamens and Boston ferns are specialties here. Mr. Thomasson, formerly of Storrs & Harrison, has charge of the plant. At the store everything is ready for the rush, which, in fact, began some days ago, many orders being booked. The retail end is in charge of John H. Meyer, formerly of the Meyer greenhouses, of New Brighton, Pa.

White's greenhouses are looking fine, and Matern's also.

A. F.

Lucas Putty

The putty that stays where you put it.
The putty that paint sticks to.
The putty that does not rob paint of its oil.

The putty that does not evaporate.
The putty that does not discolor white or light tints.
The putty for Florists.
The putty for Nurserymen.
The putty for you.

Glass

Lucas Glass is the best for Green or Hot Houses.
Let us quote you prices.

JOHN LUCAS & CO.
320 Race St., Philadelphia, Pa.

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BOSTON FERNS
ASPARAGUS PLUMOSUS NANUS,

5-in. pots, \$3.00 per doz.
6-in. pots, 5.00 per doz.
6-in. strong 6.00 per doz.
7-in. pots, 7.20 per doz.
4-in. pots, fine plants, \$1.50 per doz.
4-in. pots, extra select, \$2.00 per doz.

FERN BALLS furnished with leaves. \$5.00 per doz.
FERNS FOR DISHES

2-in. pots, good varieties, assorted, \$3.00 per 100.
WRITE FOR LIST.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

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AZALEAS We have 10,000 from which to select your stock. Place orders at once.

RHODODENDRONS for forcing. Finest stock ever imported. Write for prices.

BOBBINK & ATKINS, Rutherford, N. J.

500,000 VERBENAS THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 60c per 100; \$5 per 1000; \$45 per 10,000.

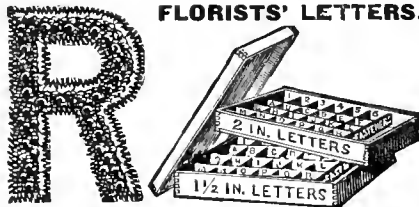
NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.
We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

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Boston Florist Letter Co.

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This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.
Script Letters \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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LEADING Florists' Supply House
M. RICE & CO.

Importers and Manufacturers,
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Catalogue for the asking.

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Of Every Description.

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HOT BED SASH,

NOW READY.

Delivered price anywhere on lots of one dozen or more. Guaranteed in every way.

THREE SIZES.

3 ft. x 6 ft.....3 rows 10-in. glass
3 ft. 3-in. x 6 ft....4 rows 8-in. glass
4 ft. x 6 ft.....5 rows 8-in. glass

Clear Cypress 1 1/4-inch thick, without paint or glass.

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Write for circulars, plans and estimates.....

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FOR CROWING SMALL PLANTS.

TWO SIZES, } No. 1. 11 1/4 x 12 1/4 and 11 inches high.
} No. 2. 15 x 16 1/4 and 15 1/4 inches high.
Are folded up in compact package of about one cubic foot; weight about 18 pounds.

SMALL OR NO. 1 SIZE.	LARGE OR NO. 2 SIZE.
1 house.....\$ 4.50	1 house.....\$ 6.50
2 houses..... 8.50	2 houses..... 12.50
4 houses..... 16.50	4 houses..... 24.00
6 houses..... 24.00	6 houses..... 34.50

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WE NOW OFFER

"Chemicals"

for making LIQUID COMPOST.

Dry powders all soluble in water. Composts cost less than 1/50 per gal. Correspondence invited.

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620 Atlantic Ave., Boston.**

KIFT'S Patent ADJUSTABLE VASE HOLDER

No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$2.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nickelled, with three clasps for 5 to 6-inch pots, each \$1.75.

KIFT'S Patent Rubber Capped FLOWER TUBES, 1 1/4-inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.

Fumigating Kind Tobacco Powder

KILLS ALL APHIS IN ONE NIGHT in a house 10x25 ft., at a cost of 10c. A 5 lb. trial pkg. will cost no thing if you will pay the express charges on it. Our booklet tells of it. Write Dept. C. Florist.
**The H. A. STOOHOFF COMPANY
116, 117, 118 West St., N. Y. City**

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SURE SELLERS.**

FANCY Baskets, the cream of foreign and domestic art; fine Cycas goods, Sheaves, Cape Flowers, Immortelles, Water-proof Pot Covers, Letters and Mottoes, Jardinieres, Doves, Dyed Moss, etc.

The Best in the Market Always and they sell all the year round. Begin the New Year by sending for our latest catalogue. Profusely Illustrated. Just Issued.

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We are now booking orders for Christmas Decorations. Get our prices at once.

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Looking for Fall Novelties?
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Toothpicks**

10,000, \$1.50; 50,000, \$6.25. Manufactured by
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Sample Free. For sale by dealers.



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MANUFACTURERS OF
COLUMBIA PLANT TUBS

"The kind that never fall apart."
If your seedsman doesn't handle them, order of us direct.
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TEL. BRADLEY NORTH 385.

**American Florists
Ads**

Always do business,
Week days and every day
Sundays and holidays,
All over the country,
At home and abroad.

NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn, N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

**The Model Extension
Carnation Support.**



Flushing, Long Island, Dec. 11th, 1901.
MR. THERON N. PARKER,
Brooklyn, N. Y.

Dear Sir— I have used your Wire Carnation Support the last two years, in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.

Very truly,
A. L. THORNE,
La Fayette, Ind.,
July 8th, 1902.

MR. THERON N. PARKER,
Harrison, N. J.
Dear Sir:— After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season.

We were much pleased with the simplicity, strength and neat appearance of the support.

Yours truly
F. DORNER & SONS Co.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.

TIN FOIL

Plain, Fancy, Printed & Mounted,

Manufactured by

The Conley Foil Co.

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NEW YORK.

"Fumigation Methods"

BY PROF. JOHNSON.

Every grower needs this book..... Price **\$1.00**

AMERICAN FLORIST COMPANY,
324 Dearborn Street, CHICAGO.

A. HERRMANN,

Cape Flowers, all colors,
Cycas Leaves, Metal Designs,
and All Florists' Supplies.
Send for Prices.
404-412 East 34th St. NEW YORK.

Lowell, Mass.

BLIZZARD CATCHES GROWERS UNAWARES.—SEVERAL LOSSES FROM FREEZING.—COAL SUPPLY FAR SHORT OF REQUIREMENTS.—CUT FLOWER PRICES STIFFEN.

The weather the past ten days has been something fierce. On the night of December 8 we had one of the worst storms in many years; it was simply a blizzard, the wind blowing a hurricane and the mercury down to 22° below zero. This was the night of all others when coal was badly needed, especially down in Tewksbury, where there is practically no coal supply to speak of. Some of the growers froze up solid. Lem. Smith, who raises violets for the Boston market, will not be seen down in the Hub for many a day, for when he awoke his place was as solid as a cake of ice. At Lewis Small's the cold wind could not be kept out and the end of one house froze. At A. C. Tingley's repairs were not quite finished and the blizzard did considerable damage. There is practically no supply of coal, what little there is being dealt out in very small quantities. Gus. Foster, a grower of violets and carnations, decided to let his violets freeze up, because he could not get the necessary coal to keep them warm, and the probabilities are that he will have to let his carnations freeze, too.

With the coming of this weather it has shortened the supply of stock, while at the same time the prices have jumped up considerably. Carnations are just right to fill the demand, but roses and violets are away off in supply, especially violets, these being hard to get at any price.

The store men are anticipating a merry Christmas, with lots of trade if one can judge from the stock that is labeled "sold" at some of the local greenhouses.

The indications are that there will be more than enough holly to go the rounds. It is very good. A. M.

Washington.

COLD WEATHER INTERFERES WITH BUSINESS.—GOOD DECORATIONS A SAVING CLAUSE.—VARIOUS NOTES.

The weather having been cold and rainy, trade has not been very brisk the last week. A few had good decorations to occupy their attention. Most of the stores and windows are now wearing their Christmas apparel.

The dinner given December 10 by the bar of the Supreme Court at the new Willard Hotel, to Justice John M. Harlan was a most brilliant function. The decoration was by J. H. Small & Sons.

Benj. Duffee is confined to his bed. The doctor has not stated the nature of his case as yet. P. G.

FOSTORIA, O.—Raymond Cole has removed here from Manchester, Va.

NOVELTIES IN FLORISTS' SUPPLIES.

Franz Birnstiel,

COBURG, GERMANY.

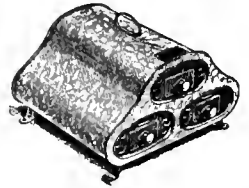
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FOR THE WHOLESALE TRADE ONLY.

The Florists' Hail Asso'n Pays Losses Promptly.

Reserve fund \$10,000. For particulars address JOHN G. ESLER, SADDLE RIVER, N. J.
Please mention the American Florist when writing

PROTECT Your Plants From Freezing in Cold Weather by getting a

LEHMAN WAGON HEATER



175,000 in use. Recommended by all florists who have them in use. Cost of heating from fuel is less than ONE-HALF CENT AN HOUR. Write for circular and price list today.

LEHMAN BROS.,
MANUFACTURERS,
10 Bond St., NEW YORK.

JAS. W. ERRINGER,
General Western Sales Agent,
297 Wabash Ave., CHICAGO.

CYPRESS WRITE FOR CATALOGUE
GREENHOUSE MATERIAL OF EVERY DESCRIPTION
JOHN C. MONINGER CO. 111 to 125 BLACKHAWK ST. COR. HAWTHORNE AVE. CHICAGO.

Use our Patent IRON BENCH FITTINGS and Roof Supports.



IMPROVED VAPORIZING PANS VENTILATING APPARATUS.
For Tobacco Extracts, Etc. Send for Circulars.
DILLER, CASKEY & CO., SUCCESSORS TO JENNINGS BROS., 8. W. Cor. Sixth and Park Sts. PHILADELPHIA.

GREENHOUSE MATERIAL. Cal. Red Cedar and La. Cypress.
BEST GRADES. PERFECT WORKMANSHIP.
Write for Catalogue and Estimates.
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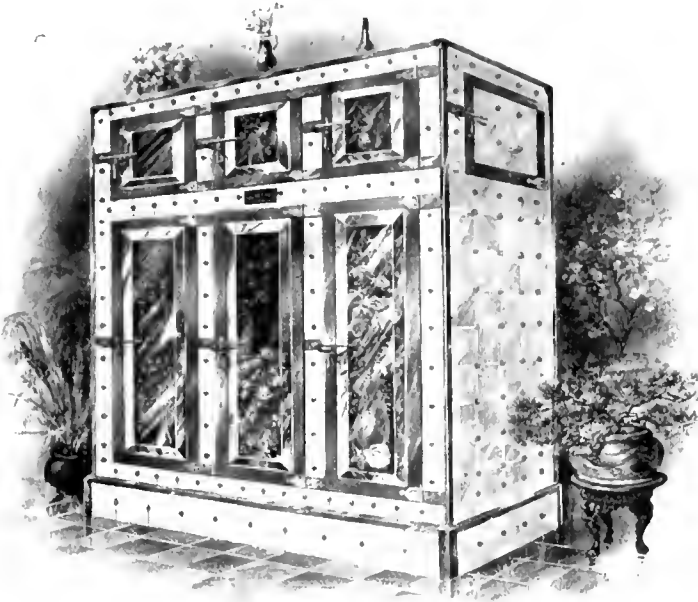
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WHEN WRITING ADVERTISERS.

THE NICKEL PLATE ROAD will afford its patrons an opportunity to take advantage of low rates for Christmas and New Year holidays, by selling tickets at a fare and a third for the round trip to all points on their line, December 24, 25, 31, 1902, and January 1, 1903. Return limit including January 2nd, 1903. Through service to New York City, Boston and other eastern points. Chicago passenger station, Harrison St. and 5th Ave. For further information, address John Y. Calahan, General Agent, 113 Adams St., Chicago. 66

FLORISTS' Refrigerators



Embodying all of the special patented features that have made our household models the Standard of Excellence in refrigerator construction. Exteriors of

Solid Oak, Porcelain, Plate Glass.

INTERIOR LININGS OF
Cypress, or One-half-inch Plate Glass, or White Glazed Tile.

They combine beauty with utility and are guaranteed to be entirely worthy and satisfactory in every particular.

Special inducements on present orders for Spring delivery.

WRITE TO-DAY FOR CATALOGUE 10.

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Tobacco Stems...

FRESH and STRONG.
Bale of 300 pounds, \$1.50
Cash with order.

W. C. BECKERT, Allegheny, Pa.



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MANUFACTURERS OF
FLOWER POTS.
Before buying write for prices.
361-363 Herndon Street,
near Wrightwood Ave.,
CHICAGO, ILL.

THOSE RED POTS

"STANDARDS"
FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.

DETROIT FLOWER POT M'FY,

HARRY BALSLEY, DETROIT, MICH.,
Rep. 490 Howard St.

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST,

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FLOWER POTS ALL KINDS.

STANDARD POTS A SPECIALTY
List and SAMPLES FREE.

SWANN'S POTTERY M'G CO.,
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Standard Flower Pots

The WHILLDIN POTTERY COMPANY,
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Established 1900. JERSEY CITY, N. J.
In 26 months we have built for private estates 87,347 square feet of Glass Houses and have orders for still more. We are just completing a Range for Oakwood Cemetery, Syracuse, N. Y. We want your patronage. Tel. 1851 Bergen.

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ALL Nurserymen, Seedsmen and Florists wishing to do business with Europe should send for the

"Horticultural Advertiser."

This is the British Trade Paper, being read weekly by all the Horticultural traders; it is also taken by over 1000 of the best continental houses. Annual subscription to cover cost of postage 75c. Money orders payable at Lowdham, Notts.

Address EDITORS OF THE "H. A."
Chilwell Nurseries, LOWDHAM, Notts, England.

STANDARD FLOWER POTS!

Packed in small crates, easy to handle.		Price per crate		Price per crate	
1500 2 1/2	in crate, \$4.88	120 7-in.	in crate, \$4.20		
	5.25	60 8	"	3.00	
1500 2 3/4	" 6.00				HAND MADE.
1000 3	" 5.00	48 9-in.	in crate, \$3.60		
800 3 1/2	" 5.80	24 11	" 3.60		
500 4	" 4.50	21 12	" 4.80		
320 5	" 4.51	12 14	" 4.80		
144 6	" 3.16	6 16	" 4.50		

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address

HILFINGER BROS. POTTERY, Fort Edward N. Y.
Or AUGUST ROLKER & SONS, New York Agents,
31 Barclay Street, New York City.

KELLER BROS.

213-15-17-19-21-23 Pearl St.,
NORRISTOWN, PA.

Manufacturers of Standard Flower Pots, red in color, equal to the best on the market; are 16 miles from Philadelphia, best of railroad connections. We give special attention to mail orders and make special sizes to order in quantities. A postal will bring prices and discounts.

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A. F. KOHR, 1521-23 N. LEAVITT ST.,
CHICAGO, ILL.,
FOR PRICES OF

Standard Pots

which for strength and porosity combined are the best on the market.

RED POTS

SAMPLE POT AND PRICE LIST
ON APPLICATION.

C. C. POLLWORTH CO., MILWAUKEE, WIS.....

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GROWERS PUT THEIR PLACES IN FINE SHAPE LAST SUMMER.—GOOD CROPS NOW THEIR REWARD.—VARIOUS NOTES.

Improvements of one sort or another seem to have been the order of the day, despite the adverse circumstances occasioned by the memorable coal strike. Geo. W. Carr has rebuilt his entire range with modern and well equipped houses. The six houses comprising the place are practically under one roof. A large shed, an up-to-date office, boiler room, cold storage rooms and so forth, are additional features worthy of note. Mr. Carr, while growing a general stock for his retail trade, will devote the most space to carnations. Like everywhere else, it is the flower mostly in demand.

Geo. E. Fancourt happened to be in New York when I called. A stroll through the rose houses showed the place to be in finer condition than ever before, which is saying a good deal. Liberty and Meteor, as grown here, would puzzle anyone but an expert as to "which is which." Brides and Bridesmaids are decidedly fine and Golden Gates and Ivories could not be improved upon. Mr. Fancourt grows a bench of Sunrise and from all appearances it is well worthy of the space it occupies. Beauties do well and promise a fine crop for Christmas. Poinsettias, both in pots and in the bench, are just right. And this will apply with equal force to the carnations.

Benj. Dorrance's place has never looked better, and there will be a heavy Christmas crop. Mr. Dorrance is the largest rose grower in the Keystone state and his plant is the best that money could build and ingenuity devise. NOMIS.

FLORAL PARK, N. Y.—The numerous members of the craft in this vicinity will be supplied with popular recreation next summer in the shape of a race track said to be the finest ever laid out in this country.

COUNCIL BLUFFS, IA.—Emma, wife of Paul Uhlman, died at St. Bernard's Hospital, December 4, after a brief illness. Both Mr. and Mrs. Uhlman had been in the employ of J. F. Wilcox for the past four years, she doing the "making-up" in the retail department. The remains were taken to St. Joseph, Mo., for interment.

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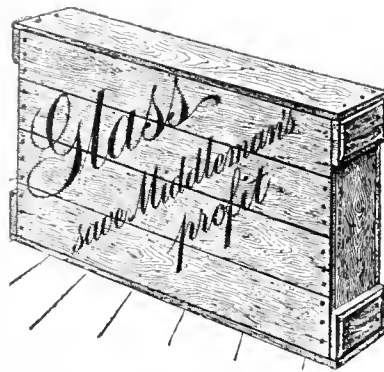
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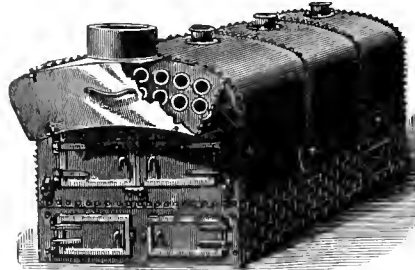
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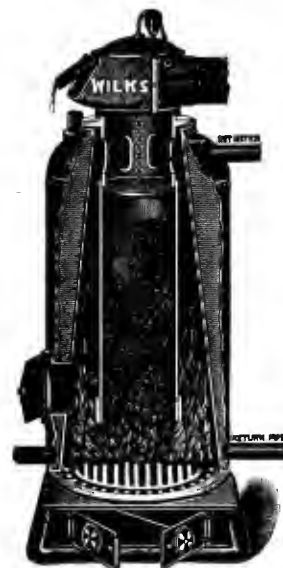
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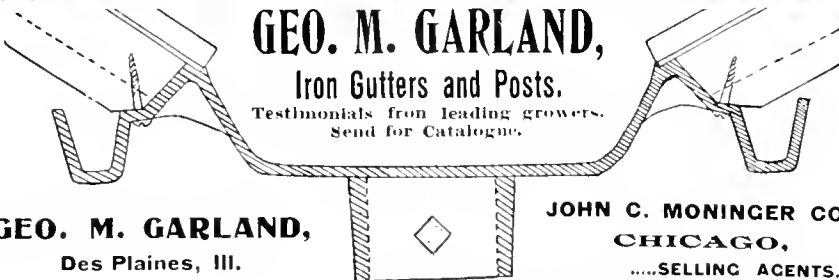


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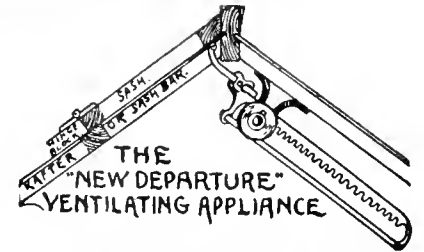
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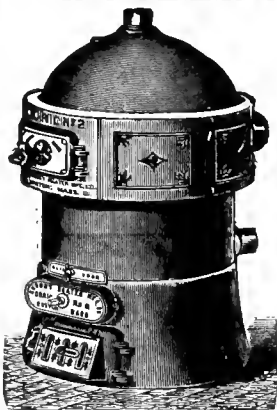


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THE AMERICAN FLORIST



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Vol. XIX.

CHICAGO AND NEW YORK, DECEMBER 27, 1902.

No. 760.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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secretary.

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Sprigs from the Spice Bush.

The Christmas trade in Philadelphia this year was fully abreast of the high standard of the past few years. Plants, flowers, greens, were as usual consumed in enormous quantities while the supply in most instances was about equal to demand. The weather was cold and clear but, up to Christmas morning, when a fleecy mantle fell, minus the usual snow which we have been led to expect from a long course of stereotyped Christmas cards.

If one wanted to see what was going on in the Christmas tree and green goods line a saunter down Market street or a ride out Ridge avenue was the proper caper. For miles and miles one would see scarcely anything but spruce forest mixed with flaring red and green wreaths and such a bustle and cheerful confusion among buyers and sellers as to make the scene quite inspiring.

In the fashionable quarter such stores as Pennock Brothers' might be called oases in the desert, so brilliant were their windows and interiors with flowers, flowering plants and gaily bedecked baskets of foliage and flowering plants. One might wish to pass the time of day with the proprietors of these enchanting palaces during the rush, but it was out of the question. Waiting on two or three customers at once seemed to be quite enough for them. So all that could be accomplished by the casual visitor was to stop, look and listen.

The Parisian basket filled with flowering and foliage plants was a strong feature among them all, but in none more so than with Kift & Sons, who were among the first to make a specialty of this line, some years ago.

Eleventh and Locust is sometimes considered to be rather out of the fashionable quarter, but if one might judge by the handsome equipages in front of George Craig's and Robert Crawford's establishments that notion would be quickly knocked on the head. Nowhere was the rush more pronounced than here.

On Twelfth street, from Chestnut to Sansom, it was apparently nothing but Battles. There are supposed to be some tailors' and jewellers' stores on that block but it would have been a hard job to find them the past week in the profusion of sylvan and floral display which Battles and his little army of forty men and boys were delving among like sappers and miners for many days and nights.

A block further west revealed a scene almost similar, where Graham and his minions were doing their prettiest to keep their ends up. Through rear passages and side alleys on to Drury and Sansom streets the Graham battle was waged with grim determination to do or die, and from authentic sources it can be stated that very little escaped them.

The up-town stores were equally busy. Habermehls' did probably the largest business in their history, while Fox and Wolff and most of the others wore that satisfied smile so eloquent of a rich harvest.

Even in the "hoopskirts" there was something of a rush. Such places as Westcott's, away out among the dead men in the Manayunk district, had all they could attend to. The commodore has a fine local trade besides growing special crops for the wholesale market. Red and white camellias are in evidence here besides the old *Daphne odorata*, sweetest of the sweet. Why do not Pennock or Battles or some of the rest of the fashionable florists take up the daphne for boutonnières and make it a go? It's a lovely thing for that. *Solanum* and poinsettias are specialties at Westcott's and very well done, too. The *solanum* went rather slow this year for some reason. Perhaps their cheeks were not painted quite enough. A fine batch of *stevia* here, called to mind the *Gypsophila paniculata*, another fine thing for mixing. Why don't the greenhouse men grow it? Far more graceful than *stevia*. There is said to be a double form of this *gypsophila* coming from Europe this season; but what use it could be is not easily imagined. For mixing the single form is away ahead of it and that's all *gypsophila* is any good for.

Speaking of *stevia* reminds me that I met Burton's "Steve" on the street the other morning.

"Hilloa Steve! What are you doing on the street? Thought your place was around at the market?"

Steve promptly dropped his eight four-foot boxes on the pavement.

"What's that? Round at the market? Y' bet y'r life if I can't mix things up round there I'm coming outside to hunt trouble. And don't you forget it."

So you see there's more than one *Stevia* good for "mixing."

That episode made me think of interviewing Superintendent Meehan of the market. Things looked a bit dull to me around that center of the flower trade, but perhaps it was a little late in the

morning to catch the right impression. Mr. Meehan was invincibly cheerful and assured me that everything was lovely. Even some of the commission men go there in the morning to buy stock.

In the other wholesale center, around Fifteenth and Ludlow, a very bustling air prevailed. S. S. Pennoek's men were slashing things right and left, 'phone bells ringing, expressmen bawling, buyers vociferating, hammers a-hammering and everything in a concatenation accordingly. Edward Reid and W. J. Baker and Geo. M. Moss were all working like Trojans on country orders—anything outside of Philadelphia is country—and were thankful that they had stuff enough to go around.

I don't know much about prices, of course—that's out of my line—and besides, they are either too high or too low, according to whether you are a grower, a commissionman, or a retailer, that they cause nothing but trouble all around, so what's the use of making things worse?

Michell, Landreth and Johnson & Stokes were the three principal seed houses which made a specialty of plants and greens during the holiday. They all did an excellent business and during this dull time in the seed trade the revenue comes in very handy. Speaking of the seed trade reminds me that "E. L." is still stubborn and unrepentant on the subject of nature study for children. He commends Secretary Wilson's plan of furnishing flower seeds to the schools. The farmers are already getting their seeds for nothing, so of course it's only but a step further to give the balance of the population theirs for nothing too! The next step will be spades and forks and hoes and rakes for cultivating the aforesaid seeds, and then as a supplementary measure food and clothing for the workers.

By and by the government will give us everything we require and nobody need worry about earning a living but just sit around and "nature-study" all day long.

There used to be an old-fashioned Jeffersonian kind of doctrine that the only legitimate function of a government was to see to it that the strong did not oppress the weak and keep a fair field and no favor for all. Governments now-a-days seem to be doing pretty much everything except that one thing. And a

tolerably fine, fancy, ghastly mess they are making of it, to be sure. How's your coal boys? Hadn't you better lock what's left up in the safe?

Next Thursday will be New Year's day! Open house at the club room on that day! So says the commodore, and he's the president this year, remember. He wants you all to be there, every one, and have a good, old-fashioned "Auld lang syne" reception. There will be some bowling, of course, sweepstakes, etc., with some creature comforts on the side, and all will join in wishing each other health, wealth and prosperity for 1903. And he who will that toast deny—down among the dead men let him lie. Down, down, down, down among the dead men let him lie. GEORGE C. WATSON.

Florists' Plant Notes.

POINSETTIAS.

Place the leftover poinsettias under a rose bench, where no water will be required until it is time to start them up again for cuttings in April. This is certainly an ideal plant to handle from the growers' point of view, for Christmas sees the end of the poinsettia for the season, and the space they occupied can be cleared and used for another crop.

CANDYTUFT.

If you can spare a bench for the purpose, candytuft sown at the first of the year in a temperature of 50° will come into bloom nicely for Memorial day. It may be a question with some as to whether this is a paying crop, but if cheap bunches of flowers are much in demand in your locality on that occasion, it is more cheaply grown than the old pyrethrum, or common feverfew.

GERANIUMS.

Geraniums in 2½-inch pots struck in September will need a shift to 3-inch now. If you are short of stock, a cutting may be taken from the stronger ones without doing any harm to the plants. Pot firmly in rather heavy soil, with one quarter well rotted cow manure and a good sprinkling of bone meal added. Give the fullest light, plenty of room and air on every possible occasion.

AZALEAS.

Any azaleas that failed to come into bloom for Christmas may have the temperature gradually reduced to bring them along more slowly. Do not take them

at once from a temperature of 70° into one of 40°, for it checks them too much. Those intended for Easter should have a night temperature of 40° until within about four weeks of the time wanted, when they may be sorted out, the later ones being given more heat. During this time the lateral growths beside the buds must be removed, or all the strength will be taken from them and the buds blasted.

PANSIES.

Many growers, notably in the west, sow their pansies at the first of the year. In the east the preference is to sow about August 20, transplanting into cold frames about four inches apart, covering with sash, and aside from an occasional watering and airing, practically no further attention is needed during the winter months. In the west, however, owing to the abundance of sunshine, this method results in too rapid growth during the winter months. For this reason, sowing in the greenhouse at the first of the year, while necessarily a more expensive way, produces more stocky plants.

Sow in drills, in a temperature of 50°, and when the seedlings have made two or three character leaves, transplant into cold frames, three or four inches apart, and cover with sash. To keep them growing, which is most essential, bank the sides of the frames and cover the sash with stable manure to keep them warm, uncovering on bright days to induce a strong and healthy growth. As the sun gets stronger and the growth firmer, they will stand plenty of feeding in the shape of liquid manure. While this method may be considered by eastern growers to be too expensive, a knowledge of conditions prevailing in many sections has proven to the satisfaction of the writer that the best results with pansies are obtained in this way.

DUTCH BULBS.

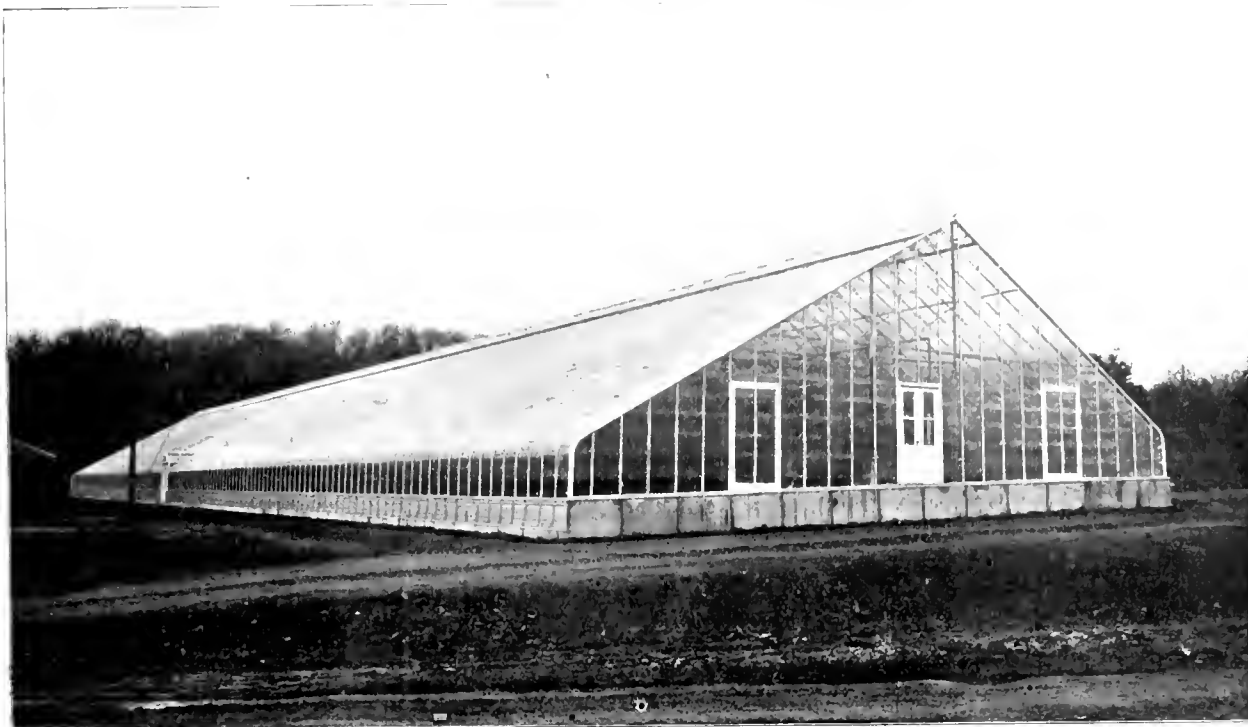
It is safe now to commence forcing Dutch bulbs. Early varieties of tulips, La Reine, Keizerskroon, Proserpine and others, may be brought in at any time now. If they are frozen, thaw them out slowly before you place them in heat. A temperature of 75° in a dark place for the first two weeks to give length to the stems is what they want; under a bench having bottom heat, with a canvas curtain to shade them, will grow them all right. After the first two weeks more light should be gradually given until by the time the flowers are open they can stand the fullest light.

Dutch hyacinths and Von Sions may be similarly treated, except that they must not be subjected to so strong a heat. Plenty of warm water, heated to the same as the forcing temperature, will bring them among all the later. In order to have a succession of bloom always on hand it is necessary to have a set day in each week to bring in the required quantity of bulbs. Paper White narcissus cannot stand the least frost, and as for the other narcissi, Dutch and Roman hyacinths and tulips, while they can stand a good freeze, it is better in addition to the four inches of soil, to cover them with stable manure of about the same thickness to prevent them from freezing too hard. Nothing is more disagreeable than when a pick has to be used to get the boxes or pans or pots of bulbs out of the frozen ground. Besides, too hard freezing may crack the pots or pans. G.

SAN ANTONIO, TEX.—G. Percy Mahood is now in charge of the estate of O. Koehler and had splendid roses in bloom outdoors for Christmas.



INTERIOR OF NEW PIERSON-SEFTON HOUSE, AT BRIARCLIFF.



THE NEW-STYLE GREENHOUSE BUILT BY THE PIERSON-SEFTON COMPANY.

An Advanced Type of Greenhouse.

The new greenhouse, views of which appear in this number, embodies the most advanced ideas in greenhouse construction as exemplified by the builders, the Pierson-Sefton Company, of Jersey City, N. J. A somewhat technical description is necessary in order to fully set forth the special features of the construction, but this we believe will be perused with much interest by our readers.

The house runs east and west and its area is 55x300 feet. The ridge is twenty-two feet six inches above grade and the height of the sides is six feet. The grade is level lengthwise but slopes to south two feet in the width of the house. There are eight beds, of concrete, four feet seven inches wide and two feet four inches high, and eight walks, also of concrete, one foot eleven inches wide and one two feet two inches wide. The roof is supported by four lines of columns, one under the ridge, two under the front slope and one under the rear slope. Lateral braces are carried from the ridge and rear rows of columns to the purlins and the columns are connected across the house with a tie-rod. There are three lines of angle-iron purlins on the north slope and four on the south. There are two lines of ventilators at the ridge, each three feet wide, and one of panel ventilators at the south side, twenty inches wide.

The foundation consists of iron posts, four feet apart, set in concrete. To these is bolted a heavy angle-iron base plate and to the angle plate are bolted steel "U" bars which extend from plate to plate, the eave line being bent to a sixteen-inch radius and the ridge connection made by a cast-iron bracket, the "U" bars being also bolted to the angle-iron roof-purlins. The sides and ends of the house are concrete blocks fastened to the iron frame and capped with iron sills. A cypress core-bar, chemically treated, is secured to the "U" bar with screws, and

the glass, 16x24, laid the 24-inch way between the bars, is bedded in putty and secured to the cypress with zinc shoe nails, being bent at the eaves to fit the curve of the bars. Thus no wood is exposed on the inside of the house, except at the ridge and ventilators, and no iron is exposed on the outside of the house, except the sills. All the iron, including bolts and screws, is galvanized, this obviating the necessity of any painting on the inside.

The advantages claimed for this house are the highest degree of light, strength and durability; the absence of drip, owing to the discarding of the customary eave plate; freedom from breakage of glass, because icicles cannot collect at the eave-line, and snow clears off the roof as rapidly as it falls. As shown in the illustration, the outlines of the structure are exceedingly graceful.

The house is one of a range of twelve known as the Briarcliff Greenhouses, on the estate of W. W. Law, situated on the heights back of Scarborough, N. Y., overlooking the Hudson river. The original house of the construction above described, size 30x100 feet, was erected in the spring of 1901 and Paul M. Pierson, the manager, states that it has fully demonstrated the correctness of the special claims advanced by the builders. American Beauty roses constitute practically the entire crop of the establishment.

Rose Cure for Nervousness.

All who have had much to do with roses, either in the nursery, the garden, or the florists' shop, know quite well that a deep inhalation of the fragrance of a deep red rose seems to do one a deal of good, more especially so if one is tired, or a little out of sorts. Our contemporary, the *Daily Express*, recently dealt at some length with "The Rose as a Cure for Nervousness," remarking that "it has been discovered that the rose will

cure a headache. Its perfume acts as a medicine upon the nerves. Its color—particularly if deep red—soothes the senses through the eyes, and its cleanliness and medicinal properties generally act upon the system, not only as a curative but as a tonic. The sweeter the rose is the better, for the sweetness of this flower is of such peculiar delicacy that it neither cloy upon the nostrils nor palls upon the senses. Other flowers with heavy scent make one languid, but the rose is invigorating. When undergoing a severe nervous strain it is a good plan to take a rose and hold it to the nostrils; breathe deeply of the scent."—*Gardeners' Magazine*.

CARNATIONS.

AVERAGE CUT FROM CARNATIONS.

ED. AM. FLORIST:—Having never grown carnations until this year and having good luck with the few I am growing, I have built three more houses for next year, which will take about 4,700 plants, such varieties as Lawson, Marquis, Crane, White Cloud, Peru, Roosevelt and Bradt. I would like to know what the average cut per day for the whole season ought to be when grown well.

G. W. D.

There is no uniform average cut of carnations; one grower may run as high as thirty flowers to a plant, and I know that there are some who if they kept a record would not average six flowers to a plant. The grower who can reach twenty flowers to a plant with an assortment of varieties is doing very well and it is better to do your calculating for an average of fifteen. ALBERT M. HERR.

MRS. T. W. LAWSON IN ENGLAND.

When this carnation first came over from America there were some who said it had been boomed too much, and others who, on seeing the first flowers open, felt

more than disappointed, as they were small and insignificant, and of a washy color, says a correspondent of the *Journal of Horticulture*. This was not to be wondered at, considering the tremendous amount of orders sent to America when it was announced for distribution, consequently the rapid rate of propagation had a more serious effect on the constitution of the plants. Now that we have mastered its requirements, we can value it in its true light. Quite by itself in its lovely shade of color, it has also splendid long stems, and lasts long when cut. The Liverpool florists' windows have certainly contained nothing more beautiful. It is a good grower, and if one only takes the precaution to shade from strong sunshine the color is intense and attractive.

TROUBLE WITH RUST AND SPOT.

ED. AM. FLORIST:—I am sending leaves and buds of some of my carnations which seem to be affected by disease. The Gov. Roosevelt show some kind of spot, but the trouble has not seemed to spread, as I cut off and burn all diseased leaves and spray the plants with a solution of copper sulphate. But there is another trouble that has developed and seems to be spreading, and I send you a bud from one of the plants affected, which seems also to be affected with the same trouble as the leaves. I fumigate once a week with tobacco stems. In watering have been careful not to wet the foliage. Should I spray the leaves occasionally on bright mornings? The compost in which the plants are growing was prepared according to the directions sent me by the Pennsylvania Agricultural College, four bushels of soil to one of well rotted manure. I had sent them a sample of the soil. Should I begin to use bone meal as a top dressing, and if so, in what quantities? NOVICE.

The sample leaves were hardly in condition to tell what the trouble is, but there was some rust in evidence. The treatment described will check that all right, namely, picking off and burning the affected leaves and spraying with copper solution. The spraying, together with the abundance of wet and dark weather we had this fall, no doubt developed some spot on the variety, and while

the copper solution will help rid the plants of this, the most important thing is to have plenty of ventilation, some heat when the warmth of the sun is not sufficient, and care that no moisture is on the plants over night or on cloudy days. It may be possible that the tobacco used for fumigating contained some foreign element that scalded the leaves and buds, but the sample was too far gone to tell whether this was the trouble, or if it were purely spot, of which there seemed an unusual amount this fall. It is hardly wise to feed plants that are not in good health unless the soil is so poor that they are starving for food, and this is not the case here. As soon as the plants get back to their normal health, then an application of good bone meal or any other fertilizer will be a benefit, being careful not to use too much at a time. ALBERT M. HERR.

FORCING AND FEEDING.

ED. AM. FLORIST:—W. N. Rudd's recent criticism of my article on Christmas forcing does not prove anything but a difference of opinion in the matter. The question is one upon which good growers differ. While some recommend that no forcing whatever be done before Christmas, on the other hand there are those who advocate and practice it, and are sure that it pays them when done with judgment and with plants that are in the best of health, with enough buds to justify it.

While 60° at night would seem high, still practical experience has demonstrated, to the writer at least, that the plants will come through a week of this temperature with no harm that cannot be remedied by careful treatment afterwards; nor does it seem to detract from the quality of the flowers beyond slightly decreasing the size of the bloom while the forcing process is on.

Now in regard to extra feeding, here again opinions differ. Some growers practice feeding at least two months before January 1, and the writer has yet to make the personal acquaintance of one who does not feed to some extent before the holidays. While the plants themselves may not require much or any extra feeding at this season, so long as it is not strong enough to injure the roots

we find that it heightens the color of the flowers and materially increases their size.

The writer wishes to admit that he does not "consult only the health of the plants, first last and always," neither does Mr. Rudd, nor any other prosperous grower, for that matter. The ruthless competition that exists in this country, in almost every line of business, has made it impossible for us to do that. If we consulted only the health of the plants we would be growing carnations during the winter months in a temperature no higher than 45° at night. Is there a grower anywhere who will dispute that we would build up a stronger stock by following such a policy? And where is there one who does it and makes carnations pay? To bring out anything like a paying quality and quantity of flowers it is necessary to carry the night temperature at 50° to 52°, and in some cases even higher. What is it that makes varieties prone to "run out" under our present methods of culture? It is because we are forced to grow them in a higher temperature than is good for the vitality of the plant, and one or two other things, such as continually propagating them from cuttings instead of from seed.

Mr. Rudd appears to place great stress upon his maxim in carnation culture, "when in doubt, don't do it," which is very proper; but on this point many eminent growers appear to have no doubts at all. The writer does not advise indiscriminate forcing and feeding; on the contrary, he advises the utmost caution, as must be apparent to anyone who does not greatly misconstrue his words. J.

PROPAGATING: THEORY AND PRACTICE.

To the careful grower the health of next year's stock is always a problem of greater importance than almost any other with which he is forced to deal in his yearly routine of work. So much depends upon the careful selection and proper handling of the cuttings that are the foundation of future success that no one can afford to intrust this important work to the careless and inexperienced.

The most practiced eye and a thorough knowledge of all the conditions that tend to bring out the best that is in this flower are none too good or expensive to be devoted to this branch of our work, for every unhealthy cutting that is taken will surely produce a diseased plant and is more than labor lost. Even with the best of selection and cultivation, varieties are prone to lose vigor and "run out." The carnation is not a plant that lends itself readily to perpetuation by cuttings, at least not under the present methods of culture, under which they are grown every day in the year, and year after year without a suspicion of rest.

Those who know the origin of our race of monthly carnations and are familiar with its habits will admit that this type still holds many things in common with its ancestors. Perhaps after many years of cultivation under glass, the race will become so accustomed to the conditions to which it is subjected that it will be as easy to perpetuate it by means of cuttings without injuring its vitality, as it is easy to perpetuate a tea rose.

We owe the vigor of the race solely to the fact that new varieties are grown from seed and introduced into commerce in such numbers that it takes but three or four years to supersede most varieties. We no more than think that at last we have attained perfection in some color or type than there comes another variety



OFFICE BUILDING AT BRIARCLIFF GREENHOUSES, SCARBOROUGH, N. Y.



VISITORS AT THE BRIARCLIFF GREENHOUSES, SCARBOROUGH, N. Y., NOVEMBER 20, 1902.

just a little better and we are forced to discard our pet and plant a new one in its place. Who can tell how long this course of improvement will continue and what gems we may yet attain?

When we have attained that type of perfection the race will probably be so thoroughly accustomed to its environment that few of the characteristics of its ancestors will be noticeable. Until that happy day comes, however, we must make the best of conditions as they are and spare no pains to keep up the vigor of our stock.

The very best time of the year to propagate is during the two darkest months, January and February. In those months we not only have the elements surrounding the cuttings in the sand under perfect control, but the stock plants from which they are taken are in a condition such that we can readily detect any plant that does not possess the most perfect health and vigor. All such plants should be avoided when cuttings are selected.

However those who have been long familiar with the habits of carnations, and studied them closely, can pick out a diseased plant at almost any time of the year, and as we think it of the utmost importance to get an early start in every stage of our work, we do a great deal of our propagating before the first of the year and would do it all before then if we could get enough cuttings without robbing the plants.

Except in very few cases we take all our cuttings from the flowering stems. Not only do these cuttings make the best shaped and largest plants in the shortest time but this course, if long pursued, will give a stock that is more free-blooming than will result from the practice of taking cuttings from the base of the plants. We have no scruples about occasionally taking a variety that is scarce and stripping it of all the good cuttings we can find. One or two generations will not make a perceptible change in the type.

Some growers make a practice of allowing the flowers to mature, and, after picking them, taking the cuttings from the stems. This system has only one thing to recommend it and that is, if the flower happens to come of an undesirable form or color, marred with undesirable markings, for instance, the cuttings on that stem can be discarded, while if they were taken before the flower was sufficiently developed to show the defect, the cuttings would be apt to perpetuate the defect and detract from the value of the stock. But the little depreciating effect that the ignoring of this point may have had upon our stock has been so inappreciable that we have become quite settled in our policy of taking the cuttings directly from the plants.

Especially have we become convinced that this is the only proper course since dry-rot has shown us what a dreadful pest it is when once it makes its appearance on a place. We have learned by repeated experiments that once any part of a plant is attacked by this disease there is absolutely no hope of saving it by cutting away the affected branch. Like leprosy in the human body, when once its presence is seen the whole plant is filled with the germs of the disease. What, then, must become of the cuttings that are taken from plants so affected? We often see plants where one branch begins to decay while the rest of the plant seems perfectly healthy and produces perfect flowers. Now, when such flowers are picked with the cuttings on them, it is utterly impossible to tell that they are from diseased plants and the cuttings will get into the stock from which we expect so much the following year.

The treatment of cuttings, after taken from the plants, is quite simple. If you have a north side lean-to propagating house, free from drip, in which the temperature is under perfect control, that is

the place for them. In the absence of a regular propagating house a good cutting bench may be provided by closing in the heating pipes with heavy paper or boards under a north bench in a carnation house, and preparing it just as you would in a regular propagating house.

To shade the cuttings from the sun and protect them from draughts a sheet of muslin should be hung vertically from the roof, flush with the front edge of the bench. A sand that is neither very fine nor very coarse and is perfectly clean is just right. Two and one-half inches deep after firming will be plenty. The coarser the sand the more water it will require. Whitewash thoroughly, with hot, newly-slaked lime, all the woodwork that comes in contact with the sand. Pound the sand as firm as you can, then water thoroughly. The bench should be sufficiently drained to allow all surplus water to escape, for the sand should never contain more water than it will naturally retain.

You are now ready to insert the cuttings. With an ordinary table knife make a deep, smooth cut and insert the cuttings three-quarters of an inch apart, just deeply enough to prevent them from falling over when thoroughly watered. When the row is full press the sand firmly against each cutting and proceed with the next row in the same way. For cuttings of ordinary size the rows should be about two inches apart.

A bottom heat of 60° to 65° and a top heat of 50° will suit them to a dot. All sun should be kept from them until they show signs of rooting. Give sufficient ventilation to keep the atmosphere pure and sweet, but never allow strong draughts to blow over the cuttings. Sprinkle every day for the first two weeks and after that water more sparingly until they are rooted. It is difficult to tell just how much water should be given. So much depends on the coarseness of the sand and how hard you may be firming.

If the sand is rather coarse and the bench well drained there will be little danger of over-watering if firing steadily. Fine sand will, of course, require more skillful handling in respect to watering.

The only trimming that our cuttings receive is to shorten back the tops about one-third if they are very long, and, with a sharp knife removing the "tail" that sometimes hangs to the base of the cutting. This tail will seldom be found, however, if the cutting is firmly grasped and taken from the plant with an upward and sideways pull. We never cut the base off the cutting to insure a perfectly smooth surface. We have learned that the cuttings will root just as well whether they are cut or not, so long as they are not bruised at the base. If there are any straggly leaves around the base of the cutting they are, of course, removed. J.

A New Minneapolis Store.

Northrup, King & Company's new uptown retail store is located in the best part of the retail section of Minneapolis, in a new building, 20x100 feet, with a fine basement salesroom of the same dimensions. Fixtures and decorations were designed and furnished by John S. Bradstreet, of Minneapolis, who has a national reputation in this line. The fixtures, tables, as well as refrigerator, were made of oak and with a dull oak finish, which, with the decorations in green and gold, makes a handsome effect. The seed case contains 1,044 drawers and packet pigeon holes with brass knobs and label holders. The store proper is separated in the rear by a partition which contains in the upper part two large plate windows, hand painted in oil and representing Shirley poppies and Japanese morning glories in the one and tulips Keizerskroon and Proserpine in the other. A number of small electric lights behind these windows bring out the colors and shading and produce a fine effect, particularly at night, when the store is darkened. These windows have caused a great deal of comment throughout the city and are a standing

advertisement, and they have produced such a grand decorative effect that it was decided to duplicate them in the refrigerator, which was built to order and is one of the largest and finest boxes in the country. There are eight of these painted windows in the upper part of the box and these are made up from the following flowers: Poinsettias, chrysanthemums, American Beauty roses, carnations, lily of the valley and Adiantum cuneatum, orchids, violets and holly and mosses flower, the last named representing the Minnesota state flower. These windows are also lit up from the inside with a row of small electric lights and they add largely to the appearance of the box.

In connection with the uptown retail store Northrup, King & Company have established a nursery and landscape gardening department and will make a specialty of supplying all lines of nursery stock for the decoration of home grounds. The main business of this firm is, of course, the growing and jobbing of seeds, but in connection with their business, which has been established for eighteen years in Minneapolis, they have always maintained a retail store. The establishment of this new retail store in the uptown district is in line with the belief of the firm that home trade is well worth attention. John Degan, formerly of Chicago, is in charge of the store.

A Brief History of the C. S. A.

BY EDWIN LONSDALE, PHILADELPHIA, PA.

[Presented to the Chrysanthemum Society of America at the Chicago convention, November 12-13, 1902.]

It must have been horticulture's great champion, John Thorpe, whose bright mind first conceived the idea of organizing an American national chrysanthemum society. The idea first took shape in the year 1889, in the columns of the AMERICAN FLORIST. The promoters were fondly hopeful that a grand exhibition would be held under its auspices in one of the larger cities each year; and alternating, one year toward the eastern end of the country, and the other nearer the west. But the revenue received from

membership fees was entirely inadequate for so laudable an undertaking, and did not warrant any attempts in that direction; nor were there any cash donations or endowments forthcoming to aid in such commendable missionary work.

It was, however, confidently expected that a very much larger list of members would be enrolled than has so far been the case. As to the roll of membership, I hesitate to tell the truth, the whole truth, and nothing but the truth, because the list is so small. However, in the hope that no harm will come from a plain statement of the fact, there never has been in any one year more than fifty on the roll in good standing, nor have there been 100 names on the roll all told since its organization.

It was organized in Buffalo in 1890, during the convention of the Society of American Florists, and, strange as it may appear, there is only one member who resides in that city. The officers as at first elected were as follows: President, John Thorpe; vice-president, William K. Harris; treasurer, John Lane; secretary, Edwin Lonsdale.

The reason that more members have not been secured is, I believe, because the society has nothing exclusively its own to offer for the membership fee. When first organized the membership fee was \$2 annually. A few years later the fee was reduced to \$1, with the expectation and the hope that more members would contribute at the lower price, but so far the results have not warranted the change.

The results of the deliberations of the committees, stationed at various points in the country, working under the society's auspices to examine novelties, are given broadcast through the horticultural press for the benefit of the public at large, so that those who do contribute to the fund do so in a public-spirited sense, receiving no more benefit than does the general public, which is truly altruistic. If an appeal should ever be made, and surely it might be, to increase the membership, it will have to be made on the grounds of philanthropy until a fund sufficient is secured to warrant the society in publishing an annual report, which certainly ought to be done, so that members would have same on hand in compact form for future reference.

The registering of names of varieties was first put into practice, I believe, by this organization. This innovation in plant nomenclature was forced upon the society on account of the ease with which seed ripened in this climate and seedlings could be so readily raised therefrom. Just as soon as a personal name became popular, there appeared frequently several distinct chrysanthemums under the same name. The registration idea worked well and was a step in the right direction. Soon after it was put into operation one impulsive and enterprising disseminator of novelties wired the secretary the name "Ruth Cleveland," on the very day the announcement appeared in the daily press that the then president of the United States and Mrs. Cleveland had decided to name their first-born Ruth!

A committee on classification did a good work in 1893, which was duly printed at a cost of \$86; and it was well worth the price. Not half that amount, however, was in the treasury at the time the bill became due and payable. This classification now needs revision and should be done.

The next good work undertaken by the national organization was to super-



VIEW IN NEW STORE OF NORTHRUP, KING & CO., MINNEAPOLIS.

wise the introduction to commerce of the numerous novelties appearing annually and eliminate, as far as possible, those not up to a given standard. Many anxious hours of cogitation were spent before the plan now in successful operation was formulated. It took definite shape at the meeting held at Atlantic City, during the convention of the Society of American Florists in August, 1894, and was put into operation the following fall.

The fact of committees being in session during the chrysanthemum season ready to examine novelties kept untold numbers of varieties out of catalogues, and consequently off the market, especially when an entrance fee of \$2 had to be paid or guaranteed before committees would examine a new variety according to the scale of points agreed upon. The entrance fee of \$2 has undoubtedly kept some fairly good varieties out of the race, consequently has aided wonderfully in simplifying the work of the committees. This work alone is worth the membership fee and abundantly warrants the existence of the society.

The number of first-class certificates awarded since the issuing of certificates was first inaugurated until the end of last year, 1901, is 231, a record of which the members of this organization may well be proud, because encouraging raisers of seedlings in their efforts to improve our patron flower.

Any city or town may have its exhibition, but it is only through an organization of national character, which this possesses, with its recognized authority, that carries the necessary weight to be effective with the public when certificates are granted to worthy novelties.

A committee was appointed at the meeting held in New York in 1900 to have the by-laws and other data printed, but from lack of funds, it is supposed, this has not yet been accomplished.

A few years ago it was decided to offer valuable pieces of silver as prizes for early new varieties, to be competed for in conjunction with other chrysanthemum shows in the larger cities. Exhibits of this character were made at Chicago, New York and Philadelphia, but from lack of proper support, I presume, have now been abandoned.

In 1900 a piece of silver valued at \$25 was offered by this society to be competed for in Paris under the auspices of the national organization of France, varieties not yet in commerce only being eligible. Mlle. Marie Liger was the successful candidate, the same which has been exhibited before all the committees of the C. S. A. during the present year, securing more than the coveted number of points in every instance, as follows: 87 in Chicago, 90 in Philadelphia, 93 both in New York and Cincinnati, and 98 in Boston, out of a possible 100, losing one point on form and one point on stem and foliage, and securing the full number of points in color, fullness, substance and size.

Some sports have received the necessary number of points entitling same to certificates, which is easy enough when it is a sport from a popular standard variety. It has, however, so happened that the same variety has sported the same year, in localities quite remote from each other, and have proven later, when grown side by side, to be so nearly alike as to be practically identical. Committees will have to exercise great care when examining sports.

Among the vicissitudes the society has experienced is, all the data up to and



THE EXPOSITION BUILDING AT MILWAUKEE, WIS.
(Where it is proposed to hold the S. A. F. convention of 1903.)

including its first year were said to have been given to someone in authority in connection with an amateur horticultural publication, but which has not since been heard of.

Until the present year here in Chicago, no effort has been made to hold general exhibitions to give same a national significance. It is to be hoped, however, that the promoters thereof will be so well pleased with the results attained in the first attempt that the idea will be taken up by other cities and carried out so successfully that they will become annual fixtures.

Hot Water Boilers.

(From the English paper, "The Garden.")

We notice in one of our contemporaries an account of Louis Pearson's paper on "Hot Water Boilers," recently read before the Institute of Heating Engineers. Many of the technical details would probably not interest our readers, but there are several hints useful to those interested in horticultural work. In his paper, Mr. Pearson speaks first of the similarity between the modern sectional cast-iron boilers and those in use twenty years ago, and gives illustrations of "Wright's Flame Impact," "Weather- spoon's Red Rose" and "Foster's Terminal End Saddle," all made twenty-five years ago. He then goes on to show that these old boilers were both economical and efficient, but they were discarded on account of their faulty jointing and unequal thickness of metal, both of which defects have now been overcome in the modern boilers. He makes a strong case out for cast-iron boilers in preference to wrought-iron and steel, as the following will show: "Cast-iron boilers can be made in sections, which enable them to be fixed in positions where wrought boilers could not be. It also enables the fire-box to be made in deeply corrugated or tubular forms, which not only present a much larger surface to the direct action of the fire but also tend to check the flow of gases and mix them thoroughly with the oxygen, thereby causing better combustion and economizing fuel.

"Cast-iron is also much less affected by oxidization, which is a great considera-

tion in our climate, and where many boilers are not at work for more than seven months of the year, for boilers, like men, rust out more quickly when idle than when at work. Experiments made by the Philadelphia Scientific Institute show that as a transmitter of heat cast-iron is more efficacious than wrought-iron by over ten per cent, principally on account of its being more porous, but I think the chief reason for the greater economy of cast boilers is due to the corrugations and the tubes that can be readily and cheaply placed in the fire-box, which not only add very largely to the direct heating surface but break up and thoroughly mix the gases as they leave the fire-box, causing better combustion. Heat is transmitted by radiation, convection and conduction; it is, therefore, quite plain that while direct heating surface in the fire-box is subject to all three influences, the surface in the flues of boilers can only be subject to one, viz., convection, and when the flue is covered with soot, which is very often the case in brick-set boilers, the efficiency of the surface is very low." We also quote his paragraph on combustion. "I think this subject should be fully considered before designing a boiler of any description or criticising those already made. Heat is, you are probably all aware, caused by the chemical union of various elements, which in the case of burning coal and coke consists principally of the oxygen of the atmosphere being mixed with the carbon and hydrogen (especially the latter, the heating power of hydrogen being three times greater than that of carbon) this affinity is greatly increased at a high temperature. As there is only one part of oxygen to four parts of nitrogen in the atmosphere, we see the necessity of introducing a large amount of air to ensure perfect combustion, in fact, providing that the air is sufficiently heated, I think it is almost impossible to introduce too much in a low pressure hot water boiler. H. J. Mills, in his treatise on boilers, puts the amount of air required to consume one ton of coal perfectly at 120,000 cubic feet. It will be seen from the foregoing remarks the reason for a thin fire giving a much better result than a thick one. As a rule, it is safe to say that the smaller

the fuel the thinner the fire should be, and the larger the fuel the thicker on account of the larger interstices in the use of the latter. It is a common practice to leave the fire-door open for a short time after firing to consume the smoke. This, of course, is wrong, for though you get a large supply of oxygen, yet as it is at a low temperature and does not, therefore, combine properly with the gases, the boiler is being cooled instead of heated, and in the case of wrought-iron or steel it also proves injurious to the plates."

The details of a test made by Mr. Pearson will perhaps interest our readers. The boiler was a cast-iron horizontal sectional boiler 54 inches long by 22 inches by 18 inches (inside measurement); fire grate, 8 square feet; direct heating surface, 50 feet. Flues taken at half value estimated power (allowing 41 feet of 4-inch pipe per foot of direct surface), 2,050 feet of 4-inch pipe; actual, 1,950. The boiler was worked to its full capacity during thirteen hours per day and was banked up to burn slowly for the remaining eleven hours; fuel consisted of half slack and half gas coke. Fuel consumed equalled thirty hundredweight per week of six days (as the fire was banked up during Sundays). This is a very favorable result, and could probably be considerably improved by substituting coal for slack.

Most of us have been troubled at some time with damp stoke holes, so we make no apology for giving this paragraph *in extenso*.

"Damp Boiler Holes.—These are often a source of considerable trouble to both heating engineers and their clients, and I think most of the trouble is caused by engineers trying to keep water out of the stoke holes built with flat sides and bottom by merely laying the bricks in cement or lining with Val de Travers, without considering the pressure. This is very considerable, for the total amount on a boiler house floor 15 feet by 10 feet by 5 feet deep, supposing the sub-soil water to be level with the top of the brickwork, is 54,000 pounds, or about twenty-five tons. It is, therefore, quite apparent that this must be provided for. With small, medium-sized boilers the simplest and best way is to place the boiler in a wrought-iron tank, which should be well tarred inside and out and paved with blue bricks. Where the boiler is very large there should be an inverted arch built under the floor of the stoke hole and tied to the side walls, which should be at least 14 inches, and have an inch space left between the 4½-inch and 9-inch work, to be afterwards filled with Val de Travers. Even with this plan the workmanship and material must be of the best to ensure success."

It Is To Laugh.

According to a correspondent in the *Washington Star*, bearing the simple name of Guy T. Viskniski, a "little daredevil French orchid hunter" has been doing stunts down in Columbia for the past four years, which dwarf into insignificance all efforts of the most vivid imaginations in the field of melodrama:

In his eager quest for a wonderful snow-white orchid described to him by a Columbian Indian guide, he has fallen over the edge of a precipice 2,000 feet in depth. He has been attacked, tormented and all but eaten up by hundreds of big black ants. He has been near death's door with the fevers of the tropics and tropical swamps. He has been robbed and deserted by his guides and left alone to starve in well nigh impenetrable Andean mountain forests. He has had to fight murderous guides for his very life. He has led Columbian troops in victorious battle. He has

been a prisoner of war of the rebels. And when last heard from—

The wildly exciting details of the four years' hunt fill nearly three columns but that which will fill the whole horticultural world with sadness, no doubt, is the sad outcome of the expedition, for after nearly the entire party had been wiped out with fever,

Just as the Frenchman once again was looking forward to a successful hunt, the guides—every mother's son of them—robbed him while he slept of all his possessions, including the precious orchids, and made off through the forest in the night.

Among Pacific Coast Growers.

At Ferrari Brothers, San Francisco, now the largest place on the coast, one can see all the leading varieties of carnations in good form. Estelle, Lawson and Prosperity are looking especially good. Lilies are grown here to the extent of 10,000, with hardly a sick one among them. Of asparagus, smilax and adiantum there is a notable houseful, and roses are largely grown. Worthy of special mention is the Liberty. This rose is doing very well here and they are the only growers of it in this vicinity.

At Chiappari & Son's roses are a specialty, and palms. Eight new houses have been built here lately and two or three others are still in course of construction. These are all filled with Bridesmaids and Brides, looking very good. Their palms, almost all kentias, are exceptionally healthy looking. Lily of the valley is grown in pans of different sizes. Some 10,000 pips were forced for Christmas and New Years. One house with ferns has suffered somewhat from dampness, but they are making good growth. For January and February three very large houses of Beauties, planted in open beds, are looking well. Here one can see lilies in bud, some being as tall as five feet.

L. Bonneau has about 50,000 feet of glass devoted to roses. Violets are all right.

A. Jacquemet suffered too much from last spring's storm to be at his best on carnations this winter.

Schwerins' place is always a delight to visit. Six or seven large houses with maidenhair ferns are in good shape, in 7-inch to 12-inch pans, and from 150 to 200 bunches of fronds are picked each day. Carnations, excepting one house of Lawson which is in full bloom, are well set with buds, but seem to me a little late, but January and February are as good as Christmas. Their Beauties are off crop, but Bridesmaids coming in nicely. Here, as in other places, lilies are healthy and promise well. Bulbs are forced by the thousands. This year they will have to divide the market a little, as a couple of other large growers have invested heavily in bulbs. I should like to mention a fine lot of azaleas, some already coming into bloom, but mostly for Easter; 1,000 are stored outside in lath sheds.

Sievers & Boland, the wizards of California carnation culture, have their stock in grand shape and it would well repay any eastern grower of this flower to come and see how things are managed here. The great novelty on the place at present is a very fine scarlet, Mrs. Spreckels, that surpasses anything in the market to-day. Hobart is their money maker and will be put on the market a year from next spring. A house of eastern varieties, among which are Nelson, Higginbotham, Palmer, Manley and others, could not be compared to the native seedlings. A house of poinsettias

was a sight to behold just before Christmas. Their other stock is all in good shape with the exception of a lot of cold storage lilies, which did not seem to enjoy the treatment given them. Orchids are grown largely. This firm is heating with hot water and burning oil instead of coal, doing away with all dirt and reducing their heating bill to almost one-half.

Cauhae Brothers are large growers of asparagus in the different varieties, smilax, ferns and other greens, six houses being stocked to overflowing and in the pink of condition.

At H. Plath's, in Ocean View, adiantums are the main crop. Some 15,000 are grown here for cutting and any amount of small stock for fern dishes and baskets. Smilax, palms, freesias and lilies all look well.

At A. Froumuller's, across the bay, one could see the best crop anywhere near Frisco for the holidays, but size was lacking, showing that considerable heat had been employed to bring the crop on. Since roses were a scarce article for the holidays it does not matter much.

G. Karmann, in the same neighborhood, had a good crop of Kaiserin and Testout roses, but just a little too soon for Christmas. Oil is also used for heating here, to the satisfaction of the owner.

J. Gilmore has five large houses, 15x400 feet, all but one in roses, the other in carnations, but they are short of help and playing in hard luck.

GOLDEN GATE.

New York.

STORY OF THE HOLIDAY BUSINESS IN THE METROPOLIS.—PLANTS CUT GREATER FIGURE THAN EVER.—CUT FLOWERS WANTED ONLY OF BEST GRADE.—MUCH SALTED STOCK.—RETAIL STORES IN BEAUTIFUL GARB.—PROPRIETORS TAXED TO THE LIMIT OF CAPACITY.—VARIOUS NOTES.

While, at time of present writing, it is not possible to present a full report of the Christmas trade for 1902, we can give, at least, a pen picture of the situation as it appears on the eve of the great holiday, with possibly some careful comments on certain phases of the business as indicating, in a measure, what is likely to be the complexion of the completed story when it is available, as we expect, next week. It is well to bear in mind the facts regarding the holiday sales generally, which, if the unvarying story as given in the daily papers is to be relied upon, are phenomenally large and admittedly greater in volume than in any past year. The florist should participate in this prosperity, and no doubt he will, in one department or another of his business, as flowers and plants have lost none of their claims on the affections of the people.

An inspection of the various retail stores throughout the city shows an unprecedented display of bright plants, regardless of locality or social standing of the establishments. Indeed, the occasion is very suggestive of Easter, for the windows are filled with plant displays, often to the exclusion of flowers, and the great sloping stagings that have heretofore done duty only at Easter have, in many instances, been resurrected and placed in position for a similar service in the display of Christmas plants and Christmas baskets. Red predominates. Poinsettias in billowy masses set the windows fairly aflame. Ardisias, solanums and red-berried branches crowd

upon the view and overhead hang dazzling ranks of scarlet bells and globes, the whole lavishly festooned and bedecked with ribbon of corresponding color. In fact, it is a veritable riot of red and green everywhere that a florist hangs out his sign and these stores stand out, wherever located, as the most brilliant and pre-eminent feature of the thoroughfare.

There are azaleas in abundance, *Veraneana*, *Mardner* and *Deutsche Perle*; *cyclamens*, *astilbes*, etc., and *Lorraine begonias* in great profusion. Frequently is seen a little forest of orange trees covered with fruit, the golden effect heightened by yellow satin and netting trimmings. Flower pots are concealed always in harmoniously-colored baskets and covers of braid or other material and there are many large "combination" baskets in the various forms already familiar to the Easter plant buyer, none being more popular than those built in the form of miniature automobiles. All available space outside the stores is utilized for Christmas trees of all descriptions, the most beautiful being the profusely-berried imported English hollies which are seen only in the most pretentious establishments, for "they cost money."

The advance sale of all the above-mentioned material was prodigious, and besides these there are araucarias and other things, unpretentious as to color, naturally, which with the assistance of a knot of brilliant ribbon and a showy pot-cover find not a few appreciative admirers. Last, but not least, are the ericas which are better than ever before, many of them from three to four feet and upwards in height, without which no store would be complete, and which also take kindly to the inevitable dash of scarlet satin. Among the unusual things to be seen are some pretty examples of our valued friend of the olden time, *Euphorbia jacinthiflora*, which well deserves the honor, and it looks very much at home in company with its companions of the same period, the camellias in red and white-flowered specimens.

So far, the plant is the all-engrossing subject. Perhaps this diversion of the popular fancy from the exclusive cut flower idea would have come about anyway and maybe no human ingenuity or foresight could have averted it. But yet one cannot resist the conviction forced upon him, after a tour through the great cut flower distributing centers, that a more general willingness on the part of the cut flower growers to heed the annual warnings of the past fifteen years, would have assisted in retaining for the cut flower industry a portion of its great pre-eminence of recent years. The writer has had exceptional opportunities for observing the quality of the cut flower material sent to this and other markets for many years and is sorry to be compelled to say that this year he has seen some of the worst stuff on the counters of the wholesalers that his eyes ever rested upon, kept so long after cutting that it was actually rotten. Not all are guilty, for there are many growers whose stock is a credit to them and a pleasure to its recipients, but there are enough of the other kind to bring reproach and loss to the cut flower industry far beyond any possible injury from the much-condemned doubling-up of prices at the holidays. It would seem that the reputable growers ought to find a way to interfere with this menace to their general welfare. The wholesaler seems either powerless or afraid to face the problem as it should

be met. Evidence in abundance can be found by any individual or committee making a tour of the wholesale markets on two or three mornings preceding a holiday.

Among the flowers most in demand are American Beauty roses of the best grades and carnations in the fancy sorts. Top quality in every desirable flower has taken a big spurt upwards in value for delivery on Christmas eve or Christmas morning. On the lower grades the proportionate advance is not nearly so great and for the refuse material there is no sale at any price. It might be said, in justice, that the weather is in some degree responsible for a portion of the poor material offered. It has been warm, with sunlight lacking, and firing properly has been almost out of the question. So there is an unavoidable softness that makes against the good-keeping qualities of stock generally. *Poinsettias* are in very heavy supply this year, with indications that it may be difficult to clean up the cut of this appropriate Christmas subject. On some other things, notably *Paper White narcissi*, there are similar indications, whereas on the other hand it would appear that the orders for first-grade roses are far in excess of the ability of the market to supply them. This we must leave, however, until next week, when fall returns will be available, hoping that we may be able to say that every bud and bloom commanded its full value and will have found its way to some appreciative buyer before the Christmas dinner got on the table.

A man representing himself as H. Smith, property-man at the New York Theatre, has been ordering big floral pieces sent to the theatre, e. o. d. during a few days past and causing lots of trouble and disappointment. Several of the retailers have had this unwelcome experience. As the only advantage the party appeared to get out of the transactions was an occasional boutonniere his methods are difficult to account for.

Mrs. Warendorf and Herman Warendorf have just opened a new store in the palatial up-town hotel, the Ansonia, which is now nearing completion. In its appointments the establishment is the peer of anything in this city in the way of flower stores, and at the grand opening, which took place on last Saturday evening, Mrs. Warendorf was the recipient of numerous sincere congratulations for her enterprise and good wishes for success in her venture.

George Tragidis has filed a petition in bankruptcy. Liabilities are given as \$6,647 and assets are represented by an oval shaped figure not unlike a goose-egg. Some of our good friends in the wholesale section are hit hard.

The holly situation underwent an unexpected change, with unexpected heavy arrivals of good material from southern points and purchases were made at the docks as low as \$1 per case, in quantity.

A greenhouse belonging to Charles Shucfer, at Maspeth, was destroyed by fire on the night of December 18. Loss given as over \$2,000; insurance, none.

W. H. Traendly will open a branch store at the Lafayette Brevoort, corner Eighth street and Fifth avenue, about January 1.

L. B. Craw, secretary of the Lord & Burnham Company, is ill with typhoid fever at his home in Irvington.

Visitors: R. E. Berry, Torresdale, Pa.; Chas. Ingram, Reading, Mass.; Sam. Goldring, Albany, N. Y.; R. E. Loeben, Gloversville, N. Y.; L. Menand, Troy.

Meetings of Florists' Clubs.

The accompanying list gives the cities in which there are active florists' clubs.

BALTIMORE, MD.—Gardeners' Club of Baltimore-Royal Arcanum building, 18 W. Saratoga street. Second and fourth Monday of each month, at 8 p. m. John J. Perry, Sec'y, Gay and Eager streets.

BOSTON, MASS.—Gardeners' and Florists' Club of Boston, Horticultural Hall. Meets second Tuesday of each month. W. E. Fischer, Sec'y, 18 Union Terrace, Jamaica Plain, Mass.

BROCKTON, MASS.—Brockton Gardeners' and Florists' Club, store of W. W. Hathaway, Times Building. First and third Tuesday of each month, at 8 p. m. W. W. Hathaway, Sec'y, Brockton, Mass.

BUFFALO, N. Y.—Buffalo Florists' Club, 491 Washington street. Second Wednesday of each month, at 8 p. m. Wm. Legg, Sec'y, 140 Delaware avenue, Buffalo.

CHICAGO, ILL.—Chicago Florists' Club, Handel Hall, 40 Randolph street. Second and fourth Wednesday of each month, at 8 p. m. George Wienhoeber, Sec'y, 413 Elm street, Chicago.

CINCINNATI, O.—Cincinnati Florists' Society, Jabez Elliott Flower Market. Second Saturday of each month, at 8 p. m. George Murphy, Sec'y, West Price Hill.

CLEVELAND, O.—Cleveland Florists' Club, Progress Hall, 244 Detroit street. Second and fourth Monday of each month, at 8 p. m. Isaac Kennedy, Sec'y, Woodchiff, Lake avenue, Cleveland.

DENVER, COLO.—Denver Floral Club, 323 Charles Block. Second and fourth Friday of each month at 8 p. m. Adam Balmer, Sec'y.

DETROIT, MICH.—Detroit Florists' Club, Cowie Building, Farran and Gratiot avenue. First and third Wednesday of each month at 8 p. m. J. F. Sullivan, Sec'y, 214 Woodward avenue.

HAMILTON, ONT.—Hamilton Gardeners' and Florists' Club, 126 1/2 James street, North. First and third Tuesday of each month at 8 p. m. Chas. M. Webster, Sec'y.

HARTFORD, CONN.—Hartford Florists' Club. Second and fourth Tuesday of each month at 8 p. m. J. F. Coombs, Sec'y, 688 Main street.

INDIANAPOLIS, IND.—State Florists' Association of Indiana, Commercial Club rooms, Indianapolis. First Tuesday of each month, at 8 p. m. H. Junge, Sec'y, 456 E. Washington street, Indianapolis.

MONTREAL, QUE.—Montreal Gardeners' and Florists' Club, Alexandria rooms, 2204 St. Catherine street. First and third Monday of each month. W. J. Horobin, Sec'y, 23 Closse street.

NEW YORK, N. Y.—New York Florists' Club, Civic Hall 128 East Twenty-eighth street. Second Monday of each month, at 7:30 p. m. John Young, Sec'y, 51 West Twenty-eighth street, New York.

OMAHA, NEB.—Nebraska Florists' Society, City Hall. Second Thursday in each month at 8 p. m. Louis Henderson, Sec'y, 1519 Farnam street, Omaha.

PHILADELPHIA, PA.—Florists' Club of Philadelphia, Horticultural Hall, Broad street above Spruce. First Tuesday of each month, at 8 p. m. Edwin Lonsdale, Sec'y, Wyndmoor, Philadelphia, Pa.

PITTSBURG, PA.—Pittsburg and Allegheny Florists' and Gardeners' Club, at rooms of Pittsburg Cut Flower Co., 504 Liberty street. Second Thursday of each month, at 8 p. m. T. P. Langhans, Sec'y, 504 Liberty street, Pittsburg.

PROVIDENCE, R. I.—Florists' and Gardeners' Club of Rhode Island, 96 Westminster street, Providence. Second Thursday of each month, at 8 p. m. Alexander Rennie, Sec'y, 41 Washington street, Providence.

RICHMOND, IND.—Richmond Florists' Club, at the greenhouses of members. Third Monday of each month. H. C. Chessman, Sec'y.

SALT LAKE CITY, UTAH.—Salt Lake Florists' Society, office of Huddart Floral Company, 214 E. Second South street. Second and fourth Friday of each month. P. T. Huddart, Sec'y.

SAN FRANCISCO, CAL.—Pacific Coast Horticultural Society. First Saturday and third Monday of each month. Thos. H. Munroe, Sec'y.

SEATTLE, WASH.—Seattle Commercial Horticultural Club, First and Cherry streets. First Wednesday of each month. Wm. Hopkins, Sec'y, 622 First avenue.

ST. LOUIS, MO.—St. Louis Florists' Club, Odd Fellows Hall No. 2, Nuth and Olive streets. Second Thursday of each month, at 3 p. m. Emil Schray, Sec'y, 4101 Pennsylvania avenue, St. Louis.

TORONTO, ONT.—Toronto Gardeners' and Florists' Association, St. George's Hall, Elm street. Third Tuesday of each month, at 8 p. m. W. C. Jay, Sec'y, 438 Spadina avenue.

UTICA, N. Y.—Utica Florists' Club, 183 Genesee street. First Thursday of each month at 8 p. m. J. C. Spencer, Sec'y.

WEST HOBOKEN, N. J.—North Hudson Florists' Club, store of H. C. Stenhouse, Hudson boulevard, West Hoboken. First Tuesday of each month, at 8 p. m. Geo. F. Kogge, Sec'y, 616 Washington street, Hoboken.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

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10 Cents a Line, Agate; \$1.00 per inch.
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Cover space sold only on yearly contract at
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front pages, regular discounts apply-
ing only to the back pages.

The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines only.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

Now let us all pull together for a pros-
perous and happy New Year.

We are in receipt of handsome calen-
dars from P. L. Larson, Fort Dodge, Ia.;
Nebraska Seed Company, Omaha, Neb.;
Lord & Burnham Company, New York.

THERE is an item going the rounds of
the daily press to the effect that the
Society of American Florists is to meet
at St. Louis in 1904, with an attendance
of more than 1,000 persons.

THE mailing label on your paper shows
when your subscription expires; when
you send your renewal note that the
date changes within two weeks; it will
serve as your receipt.

LEWIS G. REYNOLDS, of Dayton, O., is
moving to organize the Carnation League
of America, to perpetuate the memory of
President McKinley, whose favorite
flower, the pink carnation, is to be the
badge of the order.

FREDERIC W. TAYLOR, acting superin-
tendent of horticulture at the St. Louis
World's Fair, has during the year trav-
eled 28,000 miles and spent fifty-eight
nights in sleeping cars in the interest of
his department.

E. T. GRAVE, of Richmond, Ind., has
sent us some blooms of the new carn-
ation, President McKinley. It is a strik-
ingly handsome dark pink flower. The
strong, stiff stems are eighteen inches
long; calyx and form of flower good; size
three and one-quarter inches.

It is rumored that the J. D. Thompson
Carnation Company has bought the
stock of a new pink seedling carn-
ation, a shade lighter than Marquis,
which is said to average four and one-
half inches in diameter. With good
habit, this should duplicate their success
with Enchantress.

The National Society of Equity of
North America has been incorporated at
Indianapolis. Its chief object is declared
to be "to promote and encourage orga-
nization and co-operation among farmers,
stockmen, horticulturists, gardeners, and
men of kindred vocations, by the estab-
lishment of a national society, with such
branch and local societies as may be
necessary to carry out such objects."

Greenhouse Building.

Grand Rapids, Mich.—Eli Cross, two
houses.

Lafayette, Ind.—Frank Schilling, four
houses.

North Yakima, Wash.—F. A. Huntley,
range of houses.

Valuable.

ED. AM. FLORIST:—I enclose \$1 for
another year's subscription to your val-
uable paper and wish it success and a
Happy New Year. G. P. MAHOON.
San Antonio, Tex.

The Fragrant Meteor.

ED. AM. FLORIST:—If one secures a
Meteor sport, with fragrance added, he
should keep it, grow it, watch it and, by
all means, make the most of it. Your
correspondent got that far with one
once, as reported in your issue of last
week. But though the blooms really did
afford the fragrance in full measure, the
characteristic depth of Meteor's color
had correspondingly vanished. And as
other good qualities were wanting, the
plants were in due time discarded.

FRANK L. MOORE.

New Trade Directory.

Final changes and corrections are
being made for the 1903 edition of the
American Florist Company's Trade
Directory. Where there have been any
changes in business during the past year
—new firms, change of firm name or
address, addition or reduction of glass
area in greenhouses, addition or reduc-
tion of acreage in nurseries, etc.—full par-
ticulars should be promptly forwarded
to insure insertion in the new edition.
Address, American Florist Company,
324 Dearborn street, Chicago.

American Carnation Society.

Davis Bros., Bloomsburg, Pa., register
Crisis, color bright scarlet; it holds its
color until the last and is a very good
keeper, flowers are from three to three
and three-quarters inches, stems from
eighteen to thirty inches. It is an early
and continuous bloomer.

Wm. G. Saltford, Poughkeepsie, N. Y.,
registers Fair Harvard, color Harvard
crimson, strong grower and a free and
continuous bloomer, fine calyx, seldom
bursting, stems strong and stiff, about
two feet long; plants three feet high
December 12. A decided novelty in color.

ALBERT M. HERR, Sec'y.

The Market for Christmas Greens.

The holly market at the close was
glutted, mainly with poor stock. The
whole country must have been well sup-
plied with holly. Dealers who formerly
bought twenty-five and fifty cases of
holly bought in carloads. The larger
part of the holly came from distant
points, at pretty heavy freight rates.
One shipper from North Carolina points
reports sending out 4,171 cases, about
forty carloads. These shipments paid
an average freight rate of nearly \$1
per case. There was an absence of gloss
on the leaves of most of the North Car-
olina stock that would indicate that the
lack of frosty weather before shipping
time was responsible for this handsome
finish to the foliage which is so much
desired.

There was practically no small leaf,
glossy, dark green, well-berried Delaware
stock to be had. The nearest to this
article was shipped from Maryland. The
Virginia and North Carolina stock, while
resembling the Delaware in some respects,
was generally of larger leaf, but not as
large as that from farther south. The
brightest, best selling stock was from
south of the Ohio river, but the percent-
age of prickly-leaved trees in that section

is so limited that the cutters cannot
afford to get it out, excluding the other
kinds, at the present competition prices.
North Carolina holly was objectionable
because of irregular, dwarfed growth of
branches, with absence of foliage except
at the tops of the shoots, which hurt the
sale of it. Common second and third
grade holly sold in Chicago in five and
ten case lots at the close as low as \$1 to
\$2 per case, according to quality.

Bouquet green, or lycopodium, in bulk
was pretty well cleaned out at the low
prices prevailing the last ten days, \$2 or
\$3 per hundred being accepted according
to quality.

Mistletoe was, as usual, very irregular
in grading and few very choice lots, well
berried and with good foliage, were
found. This article is often damaged,
either from the heat in the very warm
express cars or from freezing outside the
cars when the weather is severe.

Christmas trees were scarce in the
Chicago market, while last year they
could hardly be given away. The ten-
dency on these, as well as on green and
holly, seems to be toward a glut one
season and famine the next.

Carnation Night at Philadelphia.

As a change from the strenuous life led
during the holiday season by retailers,
commissionmen, growers and the numer-
ous assistants connected with the busi-
ness, the Florists' Club of Philadelphia
will hold a "Relaxation Night" at the
regular meeting to be held the first Tues-
day in January, 1903.

The essay usually read at these meet-
ings will be dispensed with on this occa-
sion. Instead, some of the Junos among
the newer carnations will be present.
Enchantress, Lillian Pond, Murphy's
Lady in White, Mrs. E. A. Nelson and
others have promised to grace the event
with their spicy presence. Adonis will be
there to extend the glad hand to his
compers. All who can qualify as to
possessing merit will be welcomed regard-
less of pedigree. It is general good
character that the craft in Philadelphia
are looking for and desire to encourage
and maintain. The standard is away up
but it is worthy the highest endeavor to
reach it. EDWIN LONSDALE, Sec'y.

The Prices of Plants.

ED. AM. FLORIST:—The season for
advertising and getting out price lists for
next year's business is at hand. Before
advertisements are started, or lists issued,
I am wondering if anything can be done
to help the poor plant grower realize
living prices for his stock. I started in
business in 1875, was one of the charter
members of the Society of American Flo-
rists and the same in the American Asso-
ciation of Nurserymen. In both of these
societies I tried to do a little something
towards holding a fair price on the stock
we had to offer. I at one time circulated
a "round robin" among leading concern
in which we should agree not to offer
standard goods like roses below a cer-
tain price. This was signed by some and
rejected by others. During all the inter-
vening time prices on plants have steadily
declined. I have compared copies of my
old lists with those of the present and
find great difference in prices then and
now. The prices on roses, carnations,
geraniums, verbenas, coleus—in fact all
leaders—have declined all the way from
fifty to seventy-five per cent, and even
more. The cost of production has
increased, inasmuch as labor and fuel

have advanced in price and almost everything used in connection with the business, whether in the construction of the houses or working them. Cost of living has increased. Cost of advertising has increased, from the fact that outside of our price lists in former times we had to do very little advertising. Is it right that the plant grower shall continue to pay more for what he uses and get less for what he produces? Can anything be done to change this? I thought when I started to get up the florists' exchange some years ago in Chicago that I was on the right road to help in this matter of prices. I worked this up for the growers only, but others turned it into a "free for all," and of course it was doomed before fairly formed. The continual lowering of prices on the goods we produce, while everything we use is constantly increasing, will surely prove disastrous, as the fate of many good men has already proved. I have talked with leading shippers both east and west, and all agree that the shipping plant business is in a deplorable condition. What can we do?

W. L. SMITH.

Boston.

HEAVIEST CHRISTMAS BUSINESS ON RECORD.—BOTH PLANTS AND CUT FLOWERS WANTED.—GROWERS HOLD STOCK TOO LATE FOR SHIPPING.

Boston's Christmas trade was far in excess of anything ever before experienced here. The weather was continuously favorable and buyers were unprecedentedly generous. Plant trade was enormous but did not seem to affect the flower trade injuriously, which was also unprecedentedly heavy. All retail stores at noon Christmas were practically empty. Considerable loss was experienced by the inability of wholesalers to supply the demand from New England points for flowers by express, owing to the policy of the growers of hoarding up their cut till Wednesday. Much of Wednesday's receipts failed of satisfactory market because they showed evidences of age and the usual loss from this cause occurred. Prices generally were high. Not as high as in New York for fancy grades, but average for medium stock fully as high as any market in the country. Fuller details of the Christmas trade and its lessons will be given next week.

Houghton & Clark met with a serious mishap Christmas morning, when the automobile, with which they were delivering, took fire. The ruined stock was of small consequence as compared with the embarrassment caused by the loss of the address cards, which were consumed. There was an overstock of holly in this market, the qualities being variable, and considerable was left unsold.

OBITUARY.

BENJAMIN A. ELLIOTT.

Benjamin A. Elliott, one of the best known veteran florists of western Pennsylvania, died at his home in Allegheny, on December 19 from heart failure. He had been a florist all his life, his father having been in the same business nearly a century ago, in old Birmingham, England. In 1854 the deceased opened a store on Market street, Allegheny, which he conducted for many years. Later he moved to Sixth street, where he kept up the business until about five years ago. He was 63 years of age and is survived by his wife and ten children. One son is

J. Wilkinson Elliott, the landscape architect, and another, B. L. Elliott, operates the greenhouses at Cheswick. The deceased was a member of the Knights of Pythias, Royal Arcanum and Ancient Order United Workmen.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1902 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

SITUATION WANTED—By experienced seedsmen—any department—stockkeeper or mail order preferred. SEEDSMAN, care Am. Florist.

SITUATION WANTED—By a good all-around grower of plants and cut flowers, single, 21 yrs. experience. Address C. F., care Am. Florist.

SITUATION WANTED—By experienced salesman, to represent a grower in the Philadelphia cut flower market. Address PHILA. SALESMAN, care American Florist.

SITUATION WANTED—Steady position by sober, honest man, used to general line of cut flowers, plants, etc. Address, with offers, G. E., Room 6, Y. M. C. A., Schenectady, N. Y.

SITUATION WANTED—On or after the first of January, by a middle aged man, sober and industrious, single, as assistant in greenhouse, 15 yrs. experience. Commercial or private. VIOLET, care American Florist.

SITUATION WANTED—By German, sober, industrious and trustworthy with life experience as grower, propagator of flowers and plants, especially carnations; able to take charge. W. S., Westbury Station, L. I. N. Y.

SITUATION WANTED—To take charge, or as working foreman, on a small commercial place; 7½ years' experience. References if required. Ontario, Canada, or Michigan preferred. Address DARY CALLAN, Inderkip, Ont.

SITUATION WANTED—As rose grower and propagator of A1 stock; 22 years' American experience. At liberty February 1st. Only first-class place wanted; English, married. State wages. Address DAISY, care American Florist.

SITUATION WANTED—By a practical florist as head gardener or foreman; can furnish best of references; have had good experience in almost all lines of the trade. Please state wages when writing. Address FLOREST, 410 Foster avenue, Chicago.

SITUATION WANTED—To take charge of a retail place. Good grower of roses and general cut flowers. 12 years' experience; single; age 33. A thoroughly reliable man. Ind., Ill. or Kentucky preferred. Address FOREMAN, care American Florist.

WANTED A florist to help in general greenhouse work. State wages without board. F. BEU, 2780 N. 40th street, Chicago.

WANTED Good all-around cut flower grower, single, for a place near Kansas City. Good pay to the right party. Address GROWER, care American Florist.

WANTED TO RENT—8,000 to 15,000 square feet of glass, near Philadelphia, suitable for rose growing; partly stocked preferred. Address ROSE GROWER, care American Florist.

WANTED—Good all-around grower, one not afraid of work; married or single. Good steady place for good man. No other need apply. Address S. J., care American Florist.

WANTED Assistant rose grower, or large commercial place. Only steady, reliable young man who has had some experience wanted. Wages \$10.00 per week. Address FRANK McMAHON, Seabright, N. J.

WANTED—Young man, single or married one who has some knowledge of forcing vegetables. Good wages and steady work to the right man. Address J. C. B., 474 So. 11th St., St. Louis, Mo.

WANTED A good experienced man to work in retail department of a Western Seed House. Must be intelligent and have a thorough knowledge of garden and flower seeds, bulbs, etc. State salary expected. Address SEEDS, care American Florist.

WANTED AT ONCE—Good steady man, experienced in growing out flowers and bedding plants, as helper in M. C. R. R. greenhouses at Niles, Mich. Wages \$1.35 per day. Steady work. JOHN GARNER, Chief Gardener Niles, Mich.

WANTED—An up-to-date storeman in retail florist establishment in the South. Must have knowledge of decorating for receptions, making up designs and bouquets. State experience and give references. Address STOREMAN, care American Florist.

WANTED—A successful grower of carnations, roses, violets, etc. Must know his business thoroughly and be competent to manage a plant of fifty thousand feet of glass in a prominent southern city. Let references accompany your application. SOUTHERNER, care Am. Florist.

WANTED A married man without children, German-American preferred, to take charge of nursery where the growing of small stock for transplanting is made a specialty. Must understand the propagation of hardy shrubs and evergreens from cuttings, be sober, industrious and well recommended; \$50 per month and a house. A permanent position to the right party. Address JOS. W. VESPAL & SON, Little Rock, Ark.

FOR SALE—In gas belt, modern greenhouses, about 7,000 square feet with stock, in prime condition. Write for particulars. M. E., care American Florist.

FOR SALE—Greenhouses, 6,500 feet of glass, stocked with carnations, peas, palms, etc.; town of 6,000. I want to go so forth. J. FRANKLIN HUNTER, Mount Holly, N. J.

FOR SALE—Horizontal tubular boiler 48x15 with plug hat dome and with 39 3/4-in. flues, very suitable for heating hot houses. Apply to WISCONSIN BOX CO., Wausau, Wis.

FOR SALE OR RENT—About 26,000 square feet of glass without stock. City of 80,000 population. Will sell greenhouses and business, or will sell business and rent greenhouses, or will rent greenhouses without business. Rare opportunity for a first-class grower. BROOKSIDE GREENHOUSES, Reading, Pa.

For Sale or Exchange.

Fully stocked greenhouses, 20 miles from Chicago, 25,000 feet of glass; steam heat; paying well; part cash, balance good real estate or time to right party. Address V. J. 95, care American Florist.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

Partner Wanted...

A grower, desirably located, having conducted a most profitable business for some time, is now obliged to refuse good orders on account of lack of capital.

Parties desiring to become jointly interested in a well paying business that will yield excellent returns on an investment, are requested to correspond with the

NATIONAL FLORISTS' BOARD OF TRADE,
NEW YORK.

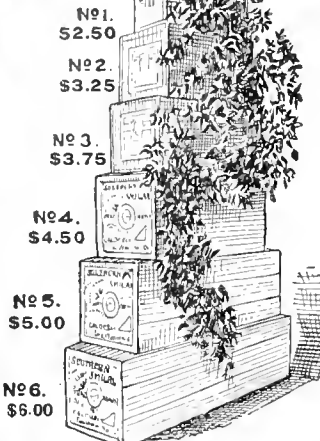
Wanted

Landscape Architect and Superintendent for the Milwaukee Public Parks System. Must be a man of good character, possess executive ability and be first-class in every respect. Give references and state salary expected. Address

The Board of Park Commissioners
MILWAUKEE, WIS.

HOLIDAY PRICE LIST.

Orchids.	Per Doz.
Cattleyas.....	\$ 7.50
Cypripediums.....	3.00
Beauties. 36-inch stems.....	12 00
30-in. stems, \$10 00 24-in. stems	8 00
20 in. stems, 6 00 15 in. stems	4.00
12-in. stems, 2.50 6-8 in. stems	1 50
	Per 100
Brides and Maids.....	\$15.00 to \$18 00
Meteors and Gares.....	15.00 to 18.00
Carnations, select.....	4.00 to 6 00
" fancies.....	7.00 to 8.00
Stevia.....	2 00
Violets, double.....	2 50
" single.....	1.50
Callas..... per dozen	\$2.50
Valley, extra long.....	5.00
" select.....	4.00
Asparagus Plumosus, string, .50 to .75	
Sprengeri.....	3.00
Ferns..... per 1000, \$2 00	.25
Galax..... per 1000, 1.00	.15
Bronze Galax, " 1 50	.15
Adiantum, Leucothoe.....	1.00
Smilax..... per dozen, \$1.50 12.50 to 15 00	



Caldwell's Quality Counts Brand
Wild Smilax now on hand.
We can supply **WHITE VIOLETS** on one day's notice.

J. B. DEAMUD,
LONG DISTANCE PHONE 3155 Central.
51 & 53 Wabash Ave., CHICAGO.

E. H. Hunt,
WHOLESALE
Cut Flowers

"THE OLD RELIABLE."

76 Wabash Ave., ...CHICAGO.

Poehlmann Bros. Co.
Wholesale Growers of
Cut Flowers

and Dealers in
All telegraph and telephone orders given prompt attention. 35-37
GREENHOUSES: Morton Grove, Ill. Randolph Street, CHICAGO, ILL.

Bassett & Washburn
76 & 78 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of **Cut Flowers**
GREENHOUSES: HINSDALE, ILL.

The Cincinnati Cut Flower Co.,
437-439 Main St. CINCINNATI, O. **WHOLESALE FLORISTS.**

Consignments Solicited.
Special Attention Given to Shipping Orders.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.

Michigan Cut Flower Exchange.

Fancy fresh cut Ferns, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around.
BRONZE GALAX, \$1.00 per thousand.
26 Miami Ave., DETROIT, MICH.

H. G. BERNING
Wholesale Florist

1322 Pine St., ST. LOUIS, MO.

Frank M. Ellis,
WHOLESALE FLORIST,

1316 Pine Street, ST. LOUIS, MO.

CONSIGNMENTS SOLICITED.

C. A. KUEHN,
Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.

A complete line of Wire Designs.

Pittsburg Cut Flower Co. Ltd
WHOLESALE FLORISTS.

Pittsburg, Pa.

Please mention the American Florist when writing.

Wholesale Flower Markets

MILWAUKEE, Dec. 24.

Roses, Beauty, long, per doz 10.00@12.00	
" med. " 6 00@ 8 10	
" short " 3 00@5 00	
" Liberty.....	15.00@18.00
" Bride, Bridesmaid.....	12.00@15.00
" Meteor.....	15.00@18.00
" Golden Gate.....	12.00@15.00
" Perle.....	8.00@10.00
Carnations.....	4.00@ 6.00
Violets.....	2.00@ 2.50
Romans, Paper Whites.....	2.00@ 3.10
Callas.....	1.00@12.00
Stevia.....	1.50@ 2.00
Adiantum.....	.75@ 1.00
Smilax.....	18.00
Asparagus.....	65.00

PITTSBURG, Dec. 24.

Roses, Beauty, specials, per doz 12 00@18 00	
" extras " 8 00@10 00	
" No. 1 " 5 00@8 00	
" No. 2 " 1 50@3 00	
" Bride, Bridesmaid.....	6 00@25 00
" Meteor.....	8 00@31 00
" Liberty.....	8 00@31 00
Carnations.....	2.00@10.00
Paper Whites, Romans.....	3.00@ 4.00
Tulips.....	4.00@ 5.00
Lily of the valley.....	4.00@ 5.10
Violets.....	1.00@ 3.00
Smilax.....	12.00@15 00
Adiantum.....	1.10@ 1.25
Asparagus, strings.....	50 00@75.00
Sprengeri.....	2.00@ 4.00

CINCINNATI, Dec. 24.

Roses, Beauty.....	25.00@100.00
" Bride.....	4.00@10.00
" Bridesmaid.....	4.00@10.00
" Meteor.....	4.00@12.00
Carnations.....	3.00@ 8.00
Lily of the valley.....	4.00@ 5.00
Harrisii lilies..... per doz, \$2 50	
Romans.....	3.00
Paper Whites.....	3.00
Asparagus.....	50.00
Smilax.....	12.50@15.00
Adiantum.....	1.25

St. LOUIS, Dec. 21.

Roses, Beauty, long stem.....	35.00@50.00
" Beauty, medium stem.....	15.00@25.00
" Beauty, short stem.....	4.00@10.00
" Bride, Bridesmaid.....	3.00@ 8.00
" Golden Gate, Carnot.....	3.00@ 8.00
" Meteor, Perle.....	3.00@ 8.00
Carnations.....	1.50@ 3.00
Paper Whites.....	2.00@ 2.00
Romans.....	2.00@ 4.00
Tuber. ses.....	4.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	12.50@15.00
Asparagus Sprengeri.....	1 50
" Plumosus.....	.75@ 1.00

W. A. HAMMOND,
Richmond, Va.

Wholesale Florist.

Roses, Carnations,
Chrysanthemums, Etc.

...GEO. M. KELLOGG...

Largest Grower of... Cut Flowers
In the West.

Give us an order and we will please you.
Our Greenhouses at PLEASANT HILL, MO.
Our Store, 906 Grand Ave., KANSAS CITY, MO.
LONG DISTANCE PHONE AT EITHER PLACE.

Holton & Hunkel Co.
Wholesale Florists,

467 Milwaukee St., MILWAUKEE, WIS.

SHIPPING LABELS FOR
...Cut Flowers

Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples....

ELECTRO OF THIS LEAF, POSTPAID, \$4.25.
American Florist Co.,
CHICAGO.

THANK YOU....

FOR YOUR CHRISTMAS ORDER.

LET US HEAR FROM YOU FOR **NEW YEAR'S.**

E. C. AMLING,

The Largest, Best Equipped and most Centrally Located Wholesale Cut Flower House in Chicago.

32-36 Randolph St. L. Dis. Phones 1999 and 1977 Central. Chicago, Ill.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

WHOLESALE Cut Flowers

Florists' Supplies, Seeds, Etc.
Galax and Leucothoe, Wild Smilax.
Special attention given to shipping orders.
Long distance 'Phones, Main 584 and 748.

J. M. McCullough's Sons
316-318 Walnut St., Cincinnati, O.

PETER REINBERG,
Grower and Wholesaler of Cut Flowers.
600,000 FEET OF GLASS.
Headquarters for American Beauties.
51 WABASH AVE., CHICAGO, ILL.

FRANK GARLAND,
Wholesale Grower of Cut Flowers
SPECIAL ATTENTION GIVEN TO HARDY CUT **FERNS**
55-57 WABASH AVENUE,
Telephone Central 3284. CHICAGO.

JOHN MUNO,
Wholesale Grower and Shipper of Cut Flowers
Room 221, 51 Wabash Ave., CHICAGO.
TELEPHONE CENTRAL 3598. All telegraph and telephone orders given prompt attention.

It is good business policy to mention the *American Florist*when writing to an advertiser.

BENTHEY & CO.

35 Randolph Street, CHICAGO.

F. F. BENTHEY, Manager. Wholesale and Commission **FLORISTS**
Consignments Solicited.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations WHOLESALE GROWER OF **CUT FLOWERS**
A Specialty.....

Wholesale Flower Markets

Chicago, Dec. 26.

Roses, Beauty, 36-inch stems	12.00
" " 30 " "	10.00
" " 24 " "	9.00
" " 20 " "	8.00
" " 15 " "	6.00
" " 12 " "	4.00
" " 6 to 8 " "	1.50@2.00
" Liberty.....	10.00@35.00
" LaFrance, Chateauy.....	10.00@20.00
" Bride, Bridesmaid.....	6.00@18.00
" Meteor, Gold-n-Gate.....	6.00@18.00
" Perle.....	6.00@15.00
Cattleyas.....	\$7.50 per doz.
Violets.....	1.50@3.00
Carnations.....	3.00@8.00
Lily of the valley.....	4.00@5.00
Asparagus, per string, .60@.75	
Adiantum.....	1.00@1.50
Common ferns, per 100, 2.00	.25
Smilax per dozen, 1.50@2.10	

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO
Send for weekly price list and special quotations on 1000 lots.

GEO. REINBERG,
Wholesale Grower of Cut Flowers
CHOICE AMERICAN BEAUTIES.
We will take care of your orders at reasonable prices. Prompt attention.
51 Wabash Ave., CHICAGO, ILL.
ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

The F. R. WILLIAMS CO.

WHOLESALE FLORISTS.

Brides, Maids, Matrons, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.
Telephone Connections. CLEVELAND, OHIO.

LIBERTIES. Samuel S. Pennock VALLEY. PHILADELPHIA.

GEO. A. SUTHERLAND,
34 Hawley St., BOSTON.
Telephone 1270 Main.

BEST BOSTON FLOWERS. All Supplies.
An entire floor Devoted to Stock and Manufacturing. Distributing Agent for United States for the wonderful



LETTER, unequalled for design work. Script, any color, 3/4c a letter. Block letters, 1 1/2c each. The most elaborate design work to order in a few minutes.

GENERAL AGENTS:
H. BAYERSDORFER & CO., Philadelphia.
REED & KELLER, New York City

A FULL STOCK OF
Seasonable Flowers.

CITY HALL CUT FLOWER MARKET
WELCH BROS., PROPS.
9 CHAPMAN PLACE, Boston, Mass.
15 PROVINCE STREET.

H. C. RIEDEL. F. D. SPICER.

RIEDEL & CO.
WHOLESALE
Commission Florists.

34 West 29th Street,
NEW YORK.

Strictly Wholesale. Correspondence Invited.

THE
NEW YORK CUT FLOWER CO.
55 and 57 West 26th St.,
WHOLESALE FLORISTS,
Daily Reports. Weekly Payments.
TELEPHONES: 2239 Madison Sq. J. A. MILLANG,
2034 Madison Sq. MANAGER.

GEORGE SALTFORD,
Wholesale Commission Florist,
46 West 29th Street, NEW YORK.
Fair dealing and prompt returns guaranteed.
Correspondence solicited.
Author of "How to Make Money Growing Violets."

N. F. McCARTHY & CO.
Best Quality
CUT FLOWERS
and Supplies,
Tel. 734 and 64 Maia. 84 Hawley St., BOSTON.

Wholesale Flower Markets

BOSTON, Dec. 24.

Roses, Beauty, Edgely, extra	100.00@150.00
" " medium	50.00@75.00
" " culls	8.00@ 8.00
" Bride, Bridesmaid, Meteor	8.00@15.00
" extra	20.00@30.00
" Liberty	25.00@50.00
Carnations	4.00@ 8.00
Lily of the valley	2.00@ 4.00
Violets	1.00@ 2.00
Poinsettias	25.00@35.00
Paper White narcissi	2.00@ 3.00
Adiantum	.75@ 1.00
Asparagus	50.00
Smilax	12.50@18.00

PHILADELPHIA, Dec. 24.

Roses, Tea	8.00@10.00
" extra	15.00@25.00
" Beauty, extra	50.00@100.00
" firsts	30.00@40.00
" Queen of Edgely, extra	50.00@100.00
" firsts	30.00@40.00
Carnations	1.50@ 8.00
Violets	2.00@ 2.50
Lily of the valley	3.00@ 8.00
Asparagus	25.00@50.00
Smilax	12.50@15.00
Adiantum Farleyense	8.00@10.00

BUFFALO, Dec. 21.

Roses, Beauty	25.00@75.00
" Bride, Bridesmaid, Meteor	10.00@12.00
Carnations	3.00@ 4.00
Violets	1.50@ 2.00
Paper Whites Romans	2.11@ 4.00
Lily of the valley	3.00@ 4.00
Smilax	15.00@20.00
Adiantum	1.00@ 1.50

The Philadelphia Wholesale Flower Market.
Phones, Keystone and Bell.
1224 CHERRY STREET, PHILADELPHIA.

Is now open and ready for business. Consignments of good stock solicited, especially Valley, Violets and Carnations. Commission, 10 per cent and \$50 annual stall rent, payable monthly in advance. Flowers, choice of this market, carefully packed and shipped at short notice.
Please mention the American Florist when writing.

Give Us a Trial. We Can Please You.



Roses, Carnations and all kinds of Seasonable Flowers in stock.
WM. F. KASTING, Wholesale Commission Florist.
481 Washington St., Buffalo, N. Y.
Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

Fancy or Dagger Ferns \$1 Per 1,000.

BRONZE OR GREEN GALAX \$1.00 per 1,000.
PRINCESS PINE, \$6.00 per 100 lbs. LAUREL FESTONING, 4c, 5c and 6c per yard. Princess Pine Festonings, all grades. Pine Wreaths and Laurel Wreaths, all grades for Xmas. Be sure and send your orders in early and you will get the best to be had.



Millington, Mass.
Tel. office, New Salem.

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg. 6th Ave. and W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock Every Morning.....
DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

THE KERVAN COMPANY

Southern Smilax; Cycas Palm Leaves, fresh and painted; Fern, Galax, Ivy and Magnolia Leaves; Leucothoe Sprays; Holly; Mosses; all green decorative material. The best that grows. We have no other sort. Write for our list of stock with prices

Telephone, 1519 Madison Sq. 20 WEST 27th STREET, NEW YORK.

Beauties and Valley Leo. Niessen,

IN QUANTITIES.

On and after Sept. 15th will be open from 7 a. m. till 8 p. m. until further notice.

WHOLESALE FLORIST,
N. W. Cor. 13th and Filbert Sts., Phila.

FLOWERS SHIPPED BY
JOHN I. RAYNOR

ARE THE BEST PRODUCT OF THE BEST GROWERS FOR THE NEW YORK MARKET.

Adiantum Croweanum 49 W. 28th Street, NEW YORK.
Sold here Exclusively. Tel. 1998 Madison Square.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.

Are supplying the most superb stock of FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.

SEND FOR QUOTATIONS.

Walter F. Sheridan,
Wholesale Florist,

Telephone 902 Madison Square.

39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square,



MOORE, HENTZ & NASH

Wholesale Commission Florists.

55 and 57 West 26th St. NEW YORK CITY.

Advice of sale note daily. Statement and check weekly. All consignments, large or small, receive the same attention. CORRESPONDENCE INVITED.

VIOLETS. WILLIAM GHORMLEY, VIOLETS.
Wholesale Commission

Daily Receiver and Shipper of Fresh Cut Flowers.

Orchids, Roses, Carnations, Valley, Chrysanthemums.

Telephones 2100 and 2200 Madison Square.

57 West 28th Street, NEW YORK CITY.

JOHN YOUNG

Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.

51 West 28th St., NEW YORK.
Tel. 1905 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN NEW YORK CITY FOR

Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

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Cut Flower Exchange, 55-57 W. 26th St.
Phone 299 Madison Square. NEW YORK.

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JOHN J. PERKINS,

COMMISSION FLORIST,

Solicits Consignments or Shipping Orders. Satisfaction given in both.

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WHOLESALE FLORISTS.

55 and 57 W. 26th St. New York.
Cut Flower Exchange.

OPEN 6:00 A. M.

An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.

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New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

New York, Dec 24.

Roses, Beauty, Edgely, best.....	67.00@125.00
" " medium.....	30.00@50.00
" " interior.....	5.00@10.00
" Bride, Bridesmaid.....	10.00@30.00
" Meteor, Golden Gate.....	8.00@15.00
" Liberty.....	10.00@50.00
Carnations.....	2.00@8.00
" Fancy and novelties.....	8.00@15.00
Violets.....	50@2.50
Lily of the valley.....	3.00@5.00
Cattleyas.....	35.00@60.00
Dendrobium formosum.....	20.00
Romans Paper Whites.....	2.00@3.00
Poinsettia.....	15.00@25.00
Smilax.....	10.00@15.00
Adiantum.....	75@1.00
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Sprengrl, doz. bun.	2.00@3.00

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Wholesale Commission Dealer

IN

Cut Flowers

106 W. 28th St., NEW YORK.

Telephone 167 Madison Square

FORD BROS.

Receivers and Shippers of

FRESH FLOWERS,

111 West 30th St., NEW YORK.
Telephone 157 Madison Square.

REPRESENTING EMINENT GROWERS.

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TELEPHONE 280 MADISON SQUARE.

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Wholesale Commission Florist,

A full supply daily of the choicest New York and New Jersey

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BEST FLOWERS SHIPPED AT LOWEST NEW YORK PRICES.

19 Boerum Place, Brooklyn, N. Y.
TELEPHONE 939 MAIN.

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WHOLESALE FLORISTS

NEW YORK: 45 West 29th Street. Tel. 2798 Madison Sq.
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55 WEST 28TH STREET,

Telephone 421
Madison Square.

.....NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

SUNFLOWER seed is selling at the lowest price for many years.

WHITE clover is very scarce—choice worth \$22 per 100 pounds.

A. A. BERRY, of Clarinda, Ia., is in the hospital under surgical treatment. He is doing well.

THE sweet corn question is now the most uncertain one on the list; however, back counties are often heard from with unexpected lots of this article.

VISITED CHICAGO: James B. Kidd, representing the Cox Seed Company, San Francisco; Harry N. Hammond, Bay City, Mich.; Fred. M. Clark, of the Everett B. Clark Co., Milford, Conn., on his way to the Wisconsin pea district.

PAPE & BERGMANN are offering a new giant pansy, *Dirra*, with cream colored flowers; *Waldersee*, a new type of dwarf aster, and blue *gladiolus* hybrids which bloom the second year from seed and produce a very large percentage true to type.

THE Leonard Seed Company, Chicago, has leased the Newberry warehouse, northeast corner Kinzie and Franklin streets and will remove their office and store to that place May 1. This is one block west of the Goodwin, Harries Company, on the north side.

The Follow-Up Method.

The manager of the mail order department in one of the largest stores in this country says, in a communication to the *Mail Order Journal*, that after sending out a general catalogue it will not pay to mail a series of "follow-up" letters to the same addresses. He reasons that if the catalogue does not interest people to the extent of bringing an order for any one of the thousand articles described therein, it will be useless to waste further effort on them.

English Seed Trade Notes.

London notes in the *Horticultural Trade Journal* of December 3, run as follows regarding seed crops: "The outlook is about as bad as it can be, small crops, poor samples, indifferent vitality, and high prices. Peas are extremely short, especially early wrinkled sorts. American Wonder and its types are nearly a total failure. Samples will, it is feared, prove badly stained from effects of the weather and the buyers will hardly take such consideration into account when examining them. The increasing trade in seed peas has rendered necessary that English houses procure their seeds from outside sources but this year foreign producers are in the same plight as English growers and are in the markets in the capacity of buyers instead of sellers. Dwarf beans are scarce, Canadian Wonder especially so because of unusual demand in South Africa, where it does well. There is a growing taste for green-podded varieties from America. Beets are one of the most satisfactory crops this season. The cabbage crop in some instances is only ten per cent of an average one. The short carrots show a better crop than last year and prices are likely to be twenty-five per cent cheaper, except on the long

kinds. The onion seed crop is a fairly good one but samples are neither plump nor heavy. A large percentage of light seed is blown out in cleaning. Radish and spinach are good and the same is true of rutabaga."

Some Legal Decisions.

The value of wheat stored in a public warehouse at the owner's risk of fire is held, in *Moses vs. Tectors* (Kan.), 57 L. R. A. 267, not to be recoverable by the owner from the warehouseman in case of a subsequent fire, where the identical wheat stored was sold according to the custom of the warehouseman, known to the owner, to commingle grain so deposited for storage with like quality belonging to him, and from such mass to sell from time to time and replenish with such other grains as should be brought to him for storage or he should buy, and when the warehouse burned it contained enough wheat of the quality stored to replace the same, and the warehouseman had at all times kept on hand sufficient in quantity and quality to replace all wheat stored with him.

For the deterioration of goods while in cold storage the warehouseman is held, in *Marks vs. New Orleans Cold Storage Company*, (La.) 57 L. R. A. 271, to be responsible notwithstanding a stipulation, in the receipt issued for the goods, to the effect that he will not be responsible for "damage" to the goods.—*Chicago Daily News*.

Indianapolis.

E. A. Nelson reported his retail trade as excellent this season. Blooming

plants for the holidays, of which he had a very fine supply, moved especially well. He has booked many orders for cuttings of Mrs. E. A. Nelson carnation, which shows up fine this winter.

Bertermann Brothers have added an automatic steam trap to return the condensation in their heating pipes. John Bertermann is confident that the outfit will save its value on coal the first winter. The cost was \$110.

It is feared the city will lose St. Clair Park, one of its finest down-town parks. The ground belongs to the state and there is danger that the legislature will dispose of it.

Bert Stanley, the city gardener, is hard at it making cuttings. He has already 35,000 alternantheras and 20,000 geraniums in 2-inch pots.

August Riemann's mule "Kate" is dead. It was thirty-five years old and a well known character in the lower Pleasant Run valley.

One of Smith & Young Company's boilers sprung a leak, which fortunately was repaired between cold waves.

On the lots formerly occupied by his greenhouses J. J. Vondersaar has erected a large business block.

H. Junge has been sick for a week with a very severe attack of neuralgia.

H. J.


GRAND RAPIDS, MICH.—Eli Cross shipped a big cut of violets to Chicago this week, and they were good, but the season has not been a favorable one for the violet growers here. Mr. Cross has eight houses in violets this season and one house of Easter lilies. In the spring he will put up two more houses and install a new boiler.

OVER 2,000 ACRES IN CULTIVATION.

Braslan Seed Growers Co.

Growers for the Wholesale Trade Only.

Correspondence solicited. SAN JOSE, CAL.



A 1902 Crop of Ohio Yellow Globe Onion on sheets ready for cleaning.
Other sorts in distance, covered with sheets.

Please mention the American Florist when writing.

RAFFIA NATURAL COLORED

VAUGHAN'S SEED STORE,

CHICAGO and NEW YORK.

FRANCIS BRILL

Wholesale Seed Grower,
LONG ISLAND CABBAGE SEED.
American Grown Cauliflower Seed
And other Choice Specialties in Vegetable
Seeds for the most critical trade.

HEMPSTEAD, L. I., NEW YORK.

Please mention the American Florist when writing

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. LOENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

THERE were large shipments of Kieffer pears to Liverpool this season.

THERE is record of a pecan tree in Georgia which bore in one crop nuts to the value of \$164.

THE Crimson Rambler rose is gaining popularity every season. There is likely to be a shortage in the spring.

A GREAT deal of peach seed is going into the ground in southern orchards but the plantings would have been much heavier had the seed been obtainable.

THE Nova Scotia Fruit Growers' Association meets at Middleton, January 20, 1903, when there will be a large exhibition, a lengthy prize list having been issued. A feature will be barrels and boxes of apples packed for export.

THE Illinois State Horticultural Society, in session at Champaign December 19, elected the following officers, Henry M. Dunlop declining a re-election: President, H. A. Aldrich, Neoga; secretary, L. R. Bryant, Princeton; treasurer, J. W. Stanton, Kichview.

THE Western Association of Wholesale Nurserymen was in session at Kansas City December 16. The following officers were elected: President, A. L. Brooke, Topeka; vice-president, R. N. Blair, Ottawa, Kas.; secretary and treasurer, E. T. Holman, Leavenworth, Kan.

Tree Business in California.

Nursery interests in Southern California are flourishing and, with good winter rains, the season will be the largest on record. There is a heavier demand for prune and apricot, which range from \$12 to \$15 per hundred, and even in peach there is considerable activity in spite of low prices realized for the fruit the past season. Stock of some varieties, as Muir and Phillip's Cling, is short and prices range from \$12 to \$20 per hundred according to supply and demand. The canneries pay best for good yellow elings and these are now the bulk of the plantings. There is good call for French prunes, but prices are lower than on Sugar and Imperial, which run \$15 to \$18. Apple and pear are called for locally but cherry is the scarcest item. As high as \$2.50 per thousand is bid for Napoleon Bigarreau, locally known as Royal Ann, which constitutes the bulk of the plantings but is obtainable only in limited quantity. Wholesale prices for fruit of this variety usually run from \$80 upward per ton, as high as \$160 having been paid by canners in the short crop year of 1899. The requirement is for a fruit from 3 1/4-inch upward in diameter. There is also good call at present for ornamentals, especially roses.

The Modern Paeonia.

Having recently received an invoice of choice paeonias from James Kelway & Son, of England, some of them costing \$5 a root wholesale over there, my friends address me with opprobrious epithets and say the fad will soon pass away and the bottom will fall out of the boom and let me down.

But let us look at the matter. First, the modern paeonia is a new discovery and the newer sorts are as beautiful as any flower that blooms.

Second, as never before, both in Europe and America, there is an awakened interest in flowers. In England there is a greater demand by far than ever before. The love of the beautiful grows with the nation's growth. Growers find that notwithstanding the immense amount raised in New England there are hardly enough to supply the demand and western growers are drawn on heavily. Millions will be needed in New York alone, when all the dealers of the state have not 200,000.

Third, with anything like decent care there are no failures with these flowers, no losses as with roses and other choice things. They stand more neglect than anything else.

Fourth, there is the immense empire of the west and northwest yet to be supplied, and these are about the only flowers that will succeed in that vast region. I have calls from Manitoba and northwest Canada, where they succeed admirably.

Taking all these things together, the paeonia is the surest, most profitable and most satisfactory flower we can raise.

C. S. HARRISON.

Albany, N. Y.

QUIET PERIOD ENDS WITH APPROACH OF CHRISTMAS.—GOOD HOLIDAY TRADE.—NEW YEAR PROMISES WELL.—PLENTEY OF DECORATIONS.—VARIOUS NOTES.

After a couple of weeks of very quiet trade, business took a decided change for the better. The approach of the holiday

season stimulated the demand for decorative material and accessories. The local craft is much encouraged over the number of orders that have been booked for the first week in the New Year. Eyres has secured orders for the decoration of the assembly chamber in the capitol, also for the charity ball to be given for the benefit of the Homeopathic Hospital building fund on January 1, and for the alumni meeting of the Albany Medical College. W. C. King & Company will decorate the new Aurania Club house in the Pine Hills district, the I. O. O. F. hall for the Adelphi Club ball on January 1 and will also do a number of private decorations.

A very neat decoration was executed by Eyres on Monday of this week for Mrs. Franklin Townsend's reception. The parlor, with its fireplace and three large mantels, was decorated with poinsettias, southern smilax and palms banked in the corners. A large bunch of mistletoe and bells of red immortelles were suspended from the central chandelier. The mantel in the dining-room was buried in poinsettias and holly.

Miss Elsie Hansen, daughter of Henry Hansen, of Catskill, assisted Eyres during the holiday rush. R. D.

HELENA, MONT.—The State Nursery Company has one house devoted to cyclamens which are in bloom now and look first-class. Carnations are in good demand and stocks are in fine condition. Mr. Mills is nursing a white sport of Lawson which he claims, in addition to having inherited all the qualities of its parent, excels it in size.



Almost half a century of fair dealing has given our products that prominence which merit deserves. We still offer everything of the best for

ORCHARD, VINEYARD, LAWN, PARK, STREET, GARDEN & GREENHOUSE.

Correspondence solicited. Catalogue and Trade List free. 49 years, 44 greenhouses, 1000 acres.

THE STORRS & HARRISON CO.,

Painesville, Ohio.

Crimson RAMBLER.

5 to 6 feet, extra heavy plants, \$20.00 per 100.
4 to 5 feet \$15.00 per 100.
3 to 4 feet, \$12.00 per 100.
2 1/2 to 3 feet, \$10.00 per 100.

The Conard & Jones Co., West Grove, Pa.

ILEX OPACA HOLLY.

Excellent, well graded and well furnished stock in sizes from 6 inches to 3 feet, at from \$6.00 to \$25.00 per 100. Send for our Trade list.

Pinehurst Nurseries, Pinehurst, N.C.



Send to THE MOON Company

For Trees, Shrubs, Vines Your and Small Fruits.

Descriptive Illustrated Catalogue Free. THE WM. H. MOON CO. Morrisville, Pa.

Pansies Worth Raising.

Strong plants, \$4.00 per 1000; \$2.50 per 500; \$1.00 per 100, f. o. b. express here. Cash with order.

CHR. SOLTAU,

199 GRAND AVENUE, JERSEY CITY, N. J.

Please mention the American Florist when writing.

Fine Grafted ORANGES Bearing Sizes.

Per 100
12 inch, bushy, from 4-inch pots.....\$20.00
15-18 inch, bushy, from 4-inch pots..... 30.00

Kin Kans 10-12 in., bushy, from 4-in. pots 20.00
15-18 in., bushy, from 4-in. pots 30.00

Lemons 12-15 in., bushy, from 4-in. pots.. 20.00
18-24 in., bushy, from 4-in. pots 30.00

Roses Climbing Clothilde Soupert, strong field-grown. 10.00
Crimson Rambler, str. field-grown 7.00

Clematis Apiifolia A fine variety, somewhat similar to C. Paniculata, but blooms earlier and lasts longer; strong plants from 3-inch pots... 8.00
(Not less than 40 of a class at 100 rate.)

Citrus Trifoliata (Best defensive hedge plant.) Per 1000

Strong, 2 year old, field-grown.....\$15.00
Strong, 3 year old, field-grown..... 20.00

Amoor River Privet (Better than California Privet.)

18-24 inch, branched..... 15.00
24-36 inch, branched..... 20.00

Not less than 400 of a class at these rates.

Rubbers, Kentias, Phoenix, Latanias, Pandanus, Ornamental Trees and Shrubs in large quantities.

WRITE FOR CATALOGUE.....

P. J. BERCKMANS CO. (Inc.)

FRUITLAND NURSERIES,

Established 1856. AUGUSTA, GA.

Please mention the American Florist when writing.

KENNICOTT BROS. CO.

Wholesale Florists,

40-42-44 Randolph St.

...CHICAGO.

McKELLAR & WINTERSON.

Supply Everything Used by Florists, Nurserymen, Gardeners, Seedsmen..... Cemeteries, Parks, Etc.

HEADQUARTERS on CUT FLOWERS

45-47-49 Wabash Ave.

Telephone Main 1129. ...CHICAGO

Lily of the Valley From Cold Storage

\$15.00 per 1000; case of 2,500, \$35.00; per 100, \$1.75.

FINEST CUT VALLEY always on hand in large quantities.

H. N. BRUNS, 1409-1411 W. Madison St., CHICAGO.

GALAX

BRONZE OR GREEN, \$1.00 per 1000; 75c per 1000 in 5,000 lots.
LEUCOTHOE SPRAYS, BRONZE OR GREEN, \$1 per 100.
FANCY FERNS, \$1.50 per 1000.
SOUTHERN SMILAX, per 50 lb. case, \$6.00; per 35 lb. case, \$4.50; per 25 lb. case, \$3.50.
PALM LEAVES, \$1.50 and \$2.00 per 100.
NEEDLE PINES, \$1.50, \$2.00, \$2.50 per doz.
GREEN SHEET MOSS, fresh stock, per bbl. sack, \$2.50.

HOLLY, choice stock, \$4.50 per case 4x2x2.
BOUQUET GREEN, selected, \$6.50 per 100 lb. crate.
AMERICAN MISTLETOE, extra fine, \$6 per 25 lb. case.
LAUREL AND PRINCESS PINE ROPING at market price.

L. J. KRESHOVER, 110-112 W. 27th St., N. Y. Tel. Call 597 Madison Sq.

Paper White Narcissus,

\$2.00 per 100.

LILY OF THE VALLEY,

\$4.00 and \$5.00 per 100.

JOHN WOLF, Savannah, Ga.

RICE BROTHERS WHOLESALE FLORISTS and FLORISTS' SUPPLIES.

Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.

Special attention given to shipping orders. Send for price list of supplies.

128 N. Sixth St., Minneapolis, Minn.

WIETOR BROS.

Wholesale Growers of

Cut Flowers,

51 Wabash Avenue, CHICAGO.

WITH one of the largest ranges of glass in the world devoted exclusively to cut flowers, we produce first grade stock in such large quantities that we can fill orders at all times.

BEAUTIES, ROSES, CARNATIONS.

Our stock was never finer than at present. Beauty is our specialty, of which we grow 60,000 plants, 60,000 Brides, Maids and Meteors; including Liberty-La France and Ivory of choicest quality, 160,000 Carnation Plants on benches, all best sorts. Buy of the grower and get fresh stock at lowest market rates.

HOLIDAY PRICES.

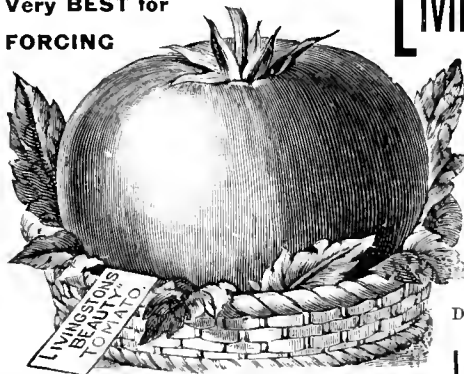
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AMERICAN BEAUTY	Per Doz.
Extra long stem	\$12.00
30-inch stem	10.00
24-inch stem	8.00
20-inch stem	6.00
15-inch stem	4.00
12-inch stem	3.00
8-inch stem	2.00

	Per 100
Bride	\$12.00 to \$15.10
Bridesmaid	12.00 to 15.00
Meteor	12.00 to 15.10
Golden Gate	12.00 to 15.00
Perle	8.00 to 10.00
Ivory	12.00 to 21.00
Liberty	10.00 to 20.00
Carnations:	
extra fancy	6.00 to 10.00
fancy	5.00
good	4.00

All other stock at lowest market rates.

Very BEST for FORCING



LIVINGSTON'S BEAUTY TOMATO.

Prof. W. J. Green, of the Ohio Experiment Station says:

"I am fully satisfied that Livingston's Beauty Tomato is the most profitable variety of all for growing under glass."

Prof. W. B. Alwood, of the Virginia Experiment Station says:

"Your Beauty Tomato was superb, and unusual, gave us magnificent fruit. We are using it now exclusively for winter forcing."

OUR OWN CHOICEST SELECTED SEED, Pkt. 10c.; Ounce 25c.; 4 Ounces 75c.

Descriptive Catalogue, also Florists' and Market Gardeners' Wholesale List free on application.

Livingston Seed Co., Columbus, O.

Please mention the American Florist when writing.

GLADIOLI OUR MOTTO: QUALITY FIRST.

We have, however, a sufficient quantity to supply all demands. Send for Catalogue.

ARTHUR COWEE,

"Meadowvale Farm," Long Distance Phone 9x. Berlin, N. Y.

United States Grower and Representative of GROFF'S HYBRIDS.

FINE, COOL GROWN FERNS ONE CENT.

Paris Tremula, P. Hastata, Onychium, Gymnogramma, Lygodium, Polypodium, Adiantum, P. Sulcata, Selaginellas, Nephrolepis, etc. Transplanted singly in cool frames, good stock and liberal count. Mail orders our specialty. \$1.25 per 100, postpaid. Per 100, \$10.00.

CLARK & LEY, THUNDERBOLT FERNERIES, SAVANNAH, GA.

Galax AND Leucothoes.

Selected, Bright and Brilliant. Wholesale Trade Solicited.....

J. L. BANNER & CO., Montezuma, N. C.

Please mention the American Florist when writing.

GALAX LEAVES AND

Leucothoe Sprays.

J. G. LOVEN, MONTEZUMA, N. C.

Please mention the American Florist when writing.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

Prepare for Milwaukee.

Now is the time for action on the part of those interested in the success of the national bowling tournament at Milwaukee next August. Bowling enthusiasm is at full tide all over the country and it should be easily possible to make the contest at Milwaukee much the largest and most closely fought in the history of the S. A. F. conventions. The accessibility of Milwaukee and the assurance, which it gives, of a large attendance at the convention should cause the officers of the National Florists' Bowling League to seize the opportunity to stimulate the interest in the sport throughout the trade. The boys should get to practicing in every town from Boston to Denver and from Minneapolis to St. Louis. Milwaukee has some of the finest bowling alleys in the country and the local committee will see that every arrangement accords with the wide interest and keen competition which should mark the contest.

Chicago.

CHRISTMAS BUSINESS NOT UP TO RECENT YEARS.—MONEY VALUE NOT IN THE ROSE CROP.—POOR QUALITIES CUT RETURNS.—WHITE CARNATIONS HURT THE AVERAGES.—ORDERS MORE NEARLY FILLED THAN USUAL.—REINBERG WILL INCREASE ROSE PLANTINGS.—FLORIST AS A THIEF CATCHER.—LITTLE MONEY IN CARNATION CUTTINGS.

The Christmas business began with long-distance shipments on Sunday, but Monday found the market rather weak. Tuesday was the big shipping day and practically everyone in the wholesale district had all he could jump to, but the aggregate of sales was not up to recent years. There was an adequate supply of material but there would have been a decrease in total sales if only on the score of the diminished value of the rose crop as compared to last year. Brides and Bridesmaids have seldom been so poor for the holidays. The stock was all soft and the very best of it lacked that crispness which is a large part of the value. Bridesmaids were of very poor color. There is likely to be much complaint on the score of poor quality at high prices, but the buyers should pause to consider that no one got first-class stock; what little good material there was had to be divided up among the orders to leaven the mass of soft flowers, and many an order was cut, not because there were no roses to fill it but because it was impossible to get stock which would stand shipment. Of course red roses were far under the demand and there was more of a stringency in the Beauty market than had been anticipated. There had been more pickling on this item than almost any other, but the salted stock got only its deserts, in most cases less than it would have brought if shipped in when it was right. The same applies also to white carnations. Last week white was wanted and hard to get; this week it was half the stock and was only moved by making customers who

wanted red take a fair proportion of white. Clean-up sales on white were made at \$1 per hundred. Red brought big values if the stock was fresh, but there was a sufficient supply in other colors, unless it might have been some of the fancy varieties. The supply of violets was just about equal to the demand. Bulbous stock moved slowly because there were low grade roses and a surplus of white carnations. There were larger supplies of poinsettias than usual and they sold only fairly well. Wednesday brought the local buying and also the stiffest prices of the week on good stock, with little call for the low grade. Beauties were held at \$15 for long, but did not all move at that. The trade did not have the life it sometimes does, for there were callas, valley and other things which did not sell.

Peter Reinberg came down town Tuesday to see the boys at the store do their holiday stunt. He said that he has never before had so good a holiday crop, although the dark weather had taken a little quality out of Brides and Bridesmaids and reduced the cut somewhat throughout the place. Liberty was rather between crops but everything else was on. Mr. Reinberg says Chatenay is his best money getter this year, fully as good as Liberty so far as profit goes. He is figuring on rebuilding mine houses this spring. They are only six years old, now largely occupied by Liberty, but he wants them higher, to make room for Beauty next year. He plans to add about three more houses of Chatenay and would like about three houses of La France also for next year. If he follows out his present idea it will reduce his planting of carnations nearly one-half.

John Schoepfle is getting a reputation as a thief catcher, although credit for the latest exploit is also due to his 15-year-old daughter, Anna, who discovered a sneak thief and locked him into the basement of the store, 1431 Belmont avenue, last Saturday night. Three weeks ago Mr. Schoepfle captured a man who was seeking to enter a neighbor's flat and in 1899 he caught, after a struggle, one Henry Romain, a former employe whom he suspected of robbing the place and who was sent to the penitentiary.

George Reinberg says that the prices of carnation cuttings of the standard varieties are so low that there is nothing in the business any more and he does not propose to this season propagate anything like the quantities of the last two or three years. He will, however, provide a large stock of field grown plants.

Wholesale business on holly fell off at the first of the week and was dull, while the retail trade was being pushed. Considerable quantities are still on South Water street. Some South Water street dealers have laid in stocks of lycopodium at about \$1.50 per hundredweight to carry over to next year.

Henry Rowe reports a very good Christmas business and has some good orders on for New Years, among them the decoration of the dining rooms at the Wellington Hotel and at Rector's. The latter job includes the decoration of eighty-seven tables.

The numerous friends in this trade of L. F. Vosburgh, former city ticket agent of the Lake Shore & Michigan Southern R. R., will be pleased to learn that he has been promoted to the position of general agent of the passenger department of that road.

Albert F. Amling is on with a very good cut of Brides and Bridesmaids. Mr. Amling has been very busy for a long time and is treating himself to a vacation, spent in visiting nearby places of interest.

The Flower Growers' Company, of Chicago, capital \$2,500, was licensed to incorporate on December 19. The incorporators named are Fred. P. Hills, J. Willard Newman and Charles L. Spencer.

M. Winandy had expected to have an additional house ready for use by the holidays, but was delayed. He is busy propagating.

A. L. Randall had a nice crop of roses from the Swanson place this week.

Visitor: Frederic Cranfield, Madison, Wis.

JOLIET, ILL.—Chas. Siegl has gone into business for himself. At the J. F. Wilcox Spot Cash store Julius A. Schnapp has succeeded Mr. Siegl in charge of the floral department. He was formerly with Wienhoeber and Samuelson, Chicago.

NEW YEAR'S DECORATING

Fancy..... **HOLLY** \$1.50
Notched-Leaf **HOLLY** PER CASE.

This price until all sold. Quality is superior. Quantity limited. Special price on large lots.

G. M. H. WAGNER & SONS, 165 South Water St., CHICAGO.

FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)
Write, Wire or Phone the Introducing,

Caldwell The Woodsman Co., Evergreen, Ala.
or their agents: L. J. Kreshover, New York; J. B. Deamud, Chicago; H. Bayersdorfer & Co., Philadelphia; W. F. Kasting, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.

Please mention the American Florist when writing.

PANSIES The Jennings Strain.

Small plants, \$4.00 per 1000, by express. Large plants, ready to bloom, \$1.00 per 100; \$8.00 per 1000. Seed, \$1 pkt.; \$5 per oz. Cash with order.
E. B. JENNINGS, Lock Box 264, Southport, Conn.
Grower of the Finest Pansies.

Please mention the American Florist when writing.



Order Direct From
Headquarters.

New Crop of Bronze and Green

GALAX

\$1.00 per 1000 in 5000 lots.

A No. 1 quality.

Dagger and Fancy Ferns,

\$1.00 per 1000. A 1 quality.

Laurel Festooning, good and full, 5 and 6c a yd.
Princess Festooning, made round, 5 and 6c a yd.
Laurel Wreathes, made good and full at market prices.

Southern Smilax, \$4.00 and \$7.00 per case. Selected stock.

Sphagnum Moss, 50c per bag; \$1.00 a barrel.

All orders by mail, telephone or telegraph will receive our personal attention and prompt delivery. Telephone long distance 2618 Main.

HENRY M. ROBINSON & CO.
32-34-36 Court Sq., Boston, Mass.

Dreer's Summer Flowering Bulbs



TUBEROUS ROOTED BEGONIAS. Single Flowered.

White, Crimson, Scarlet, Pink, White and Yellow, 40c per doz.; \$3 per 100; \$25 per 1000. Choicest singles in mixture, 35c per doz.; \$2.50 per 100; \$22.00 per 1000.

TUBEROUS ROOTED BEGONIAS. Double Flowering.

Scarlet, Rose, White and Yellow, 85c per doz.; \$5 per 100, \$40 per 1000. Choicest doubles in mixture, 50c per doz.; \$4 per 100; \$35 per 1000.

NEW FRILLED TUBEROUS BEGONIAS.

A grand new variety fringed like a single Petunia, choicest mixture, 25c each. \$2.50 per doz.; \$20 per 100.

BEDDING TUBEROUS BEGONIA, DUKE ZEPPELIN.

This is the intensely bright scarlet, small double flowered that attracted so much attention at the Pan-American Exhibition. Fine strong bulbs, 20c each; \$2 per doz.; \$15 per 100.

GLOXINIA CRASSIFOLIA GRANDIFLORA.

A choice selected strain, strong, well matured bulbs, Red, White and Blue in separate colors or in choicest mixture, 50c per doz.; \$4 per 100; \$35 per 1000.

FANCY LEAVED CALADIUMS.

A choice collection of 25 varieties, \$1.25 per doz.; \$10 per 100. Choice Mixed Varieties, \$1 per doz.; \$8 per 100.

TIGRIDIAS.

Conchiflora, Grandiflora Alba, Pavonia Grandiflora, 30c per doz.; \$2 per 100; \$15 per 1000.

MONTBRETIAS.

Six choice varieties, 25c per doz.; \$1.75 per 100; \$12.50 per 1000.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

PREMIUM AMERICA PANSY SEEDS

Grown by Wm. Toole, Pansy Specialist, Baraboo, Wis. "How to Grow Pansies," with catalogue of Pansy and other seeds and plants sent free to any address. Over 80 varieties and mixtures of Pansy seeds offered. My newest variety,

COLUMBIA.

the red, white and blue, 25c per pkt. Extra Choice mixed, 10c per pkt.; trade pkt., 20c; 1/2 oz., 50c; 1/4 oz., 75c. Selected mixed, 15c per pkt.; trade pkt., 30c; 1/2 oz., 70c; 1/4 oz., \$1.20. **Hesperian Mixture**, 25c per pkt.; trade pkt., 50c. Send orders or inquiries to

WILLIAM TOOLE, Pansy Specialist, PANSY HEIGHTS, BARABOO, WIS.

Please mention the American Florist when writing.

Pansy Plants.

	Per 100
Large flowering	\$2.50 per 1000, \$.50
CHINESE PRIMROSES	1.50
ASP. SPRENGER'S, 2 1/4-1 inch pots	2.00
GERANIUMS, 10 varieties, 2-inch pots	2.50
VIOLA VINES, variegated, 3-inch pots	4.00
CANVA BULBS, 10 varieties, 1 1/2 inch pots	3.00
100 CINERARIAS, 3-inch pots	6.00

CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

Please mention the American Florist when writing.

THE NEW FERN

Anna Foster

Unqualified success. Quick seller. Very prolific. at 2 1/4-in. \$10; 3-in. \$21; 4-in. \$35; 5-in. \$50 per 100. Larger plants, prices on application.

KENTIA PALMS, \$50, \$75 and \$100 per 100.
RUBBERS, 5-in. pots, 18 inches high, \$4 per doz.
L. H. FOSTER, 45 King Street, Dorchester, Mass.

Please mention the American Florist when writing.

GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs

\$2.00 Per Year. Sample Copies Free.

Liberal terms to florists who take subscriptions.

THE GARDENING CO. MONON BUILDING, Chicago, Ill., U.S.A.

CARNATIONS.

350,000 Well Rooted Cuttings NOW READY.

	Doz.	100	1000		Doz.	100	1000
Gov. Wolcott, white.....	60	\$4.00	\$35.00	Norway, white	30	\$1.00	\$10.00
Alba, white.....	60	4.00	35.00	Lorna, white	30	1.00	10.00
Golden Beauty, yellow	60	4.00	35.00	Gold Nugget, yellow.....	30	2.00	15.00
Viola, variegated, very nice	1.25	9.00	75.00	Lawson, pink	30	2.00	15.00
Mrs. Palmer, scarlet	60	4.00	35.00	Bon H. Richard, white.....	30	2.00	15.00
Mrs. Higginbotham, light pink..	60	4.00	35.00	Egypt, maroon	30	1.00	10.00
J. H. Manley, scarlet	60	4.00	35.00	Queen Louise, white	30	2.00	15.00
Viola Allen, variegated	60	4.00	35.00	Crane, scarlet	15	1.00	10.00
Ganey, fine variegated.....	60	4.00	35.00	Genevieve Lord, light pink....	15	1.00	8.00
Harry Fenn, crimson	60	4.00	35.00	Evanston, red	15	1.00	8.00
Apollo, scarlet	60	4.00	35.00	Tidal Wave, pink.....	15	1.00	8.00
Dorothy Whitney, yellow.....	65	4.50	40.00	Joost, pink	15	1.00	10.00
Stella, Dornor's variegated.....	60	4.00	35.00	Mermaid, salmon, fine.....	15	1.00	7.00
Corbett, salmon.....	40	3.00	25.00	Portia, scarlet	15	1.00	10.00
Dorothy pink	40	1.50	10.00	Wm Scott pink.....	15	1.00	7.00
Chicot, white	50	3.00	25.00	Argyle, pink	15	1.00	10.00
Gov. Roosevelt, maroon.....	35	2.00	15.00	Eldorado, yellow	15	1.00	7.00
Prosperity, white splashed pink	35	2.50	20.00	Gen. Macco, maroon.....	15	1.00	10.00

Write for prices on large quantities, 6 at 12 Rates; 25 at 100 Rates; 250 at 1,000 Rates.

Terms Spot Cash, prepaid to your city at above prices.

All rooted cuttings sold under express condition that if not satisfactory on arrival, return immediately, when money will be refunded.

CALIFORNIA CARNATION CO., Loomis, California.

Orchids!



Just arrived in perfect condition,

LAELIA ELEGANS

and **Cattleya Intermida.** Write for particulars.

Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

Carnations ROOTED CUTTINGS.

Cannas ALL THE LEADING VARIETIES.

Write for prices, which are right.

W. W. COLES, Kokomo, Ind.

ELECTROS...



For Catalogue Purposes.

WE have a large assortment of strictly high-class halftones of which we can supply electros suitable for catalogue illustration. If you need anything in this way, state your requirements and we will submit proofs of the illustrations in stock.

Price for cash only 15 cents per square inch.

THE AMERICAN FLORIST CO.,
.....324 Dearborn St., CHICAGO.

Cincinnati.

CHRISTMAS BUSINESS ALL THAT ANYONE COULD EXPECT.—CARNATIONS THE ONE SHORTAGE.—PRICES GOOD.—RETAILERS SATISFIED.—NOTES.

Christmas trade was all that could be expected. A big lot of stock was disposed of at fair prices. Beauties were enough for all orders and good ones, too. Carnations were very short in this market, not half enough for orders. Plants were in good demand. Bulbous stock, such as Romans and Paper White narcissi, was in over-supply. Lily of the valley sold well. Harrisii lilies were in good demand at \$2.50 per dozen. This market will be well supplied with them from now on. Poinsettias did not sell as well as last year and there are some left over. If the present weather continues good flowers will be very scarce.

A. Sunderbruch's Sons did a tremendous business. They had a force of sixteen working to get out their orders. One of their wagons left the store on Christmas morning with over 100 different boxes to be delivered. Hardesty & Company also did a good business.

The Cincinnati Cut Flower Company had a vase of the new white seedling carnation, Innocence, and a vase of Franz Deegen rose on exhibition this week, from the E. G. Hill Company, which showed exceptionally fine keeping qualities.

John G. Graull celebrated the one hundredth anniversary of his birthday on Christmas day, at the German Old Men's Home. Mr. Graull was gardener to the Longworth family for years.

D.

Washington.

RETAILERS HAD GOOD STOCK.—PLANTS SOLD WELL.—NOTES OF THE SPECIALTIES.

J. H. Small & Sons had a fine assortment of plants, such as azaleas, poinsettias, ericas, oranges, dracanas and a fine lot of imported evergreens for Christmas, most of which were sold some days in advance. They complain of the English holly dropping its leaves in transit. Boxwood wreaths were again in great demand.

A. Gude & Brother had a nice lot of azaleas, poinsettias, cyclamens and a good stock of roses and carnations. J. R., Freeman and J. Louis Loose had their stores well stocked with flowering plants and cut flowers.

Z. D. Blackstone and Otto Bauer had their stores looking very attractive and well stocked for the holiday trade. George C. Shaffer had a good stock, including a fine lot of wreaths.

Visitor: W. J. Harris, Norfolk, Va. P. G.

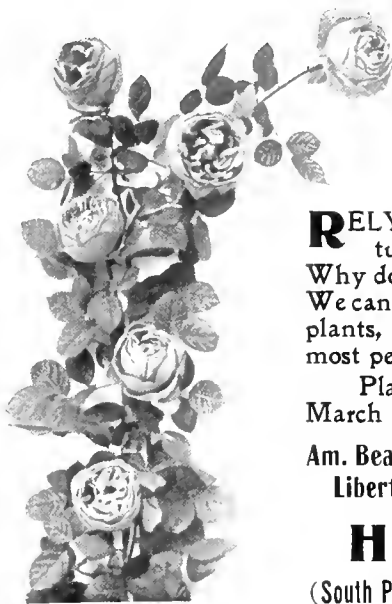
CARNATIONS
Rooted Cuttings

	Per 100	Per 1000
CRESSBROOK.....	\$5.00	\$40.00
CHALLENGER.....	5.00	40.00
FAIR MAID.....	6.00	50.00

500 at 1000 rates.

Other varieties, prices on application.

C. Warburton, FALL RIVER, MASS.
Please mention the American Florist when writing.



Stock Breeders

RELY on the general health and constitution of parentage for best results. Why does not the same rule apply to **ROSES?** We can furnish you rooted cuttings or 2 1/2-in. plants, propagated from Roses growing in most perfect state of health and vigor.

Place orders now for February and March delivery:

Am. Beauty, Brides, Bridesmaids, Gates, Ivory, Liberty, Meteor, LaFrance, Franz Deegen.

HELLER BROS.

(South Park Floral Co.) New Castle, Ind.

Rooted Carnation Cuttings

NOW READY.

	Per 100	Per 1000		Per 100	Per 1000
Alba, white	\$4.00	\$35.00	Chicot, white.....	\$3.00	\$25.00
Golden Beauty, yellow.....	4.00	35.00	Gov. Roosevelt, maroon.....	2.50	20.00
Cressbrook, white.....	4.00	35.00	Prosperity, white-splashed pink	2.50	20.00
Mrs. Palmer, scarlet	4.00	35.00	Norway, white.....	2.00	15.00
Mrs. Higinbotham, light pink	4.00	35.00	Lawson, pink.....	2.00	15.00
J. H. Manley, scarlet	4.00	35.00	Morning Glory, shell pink.....	2.00	15.00
Viola Allen, variegated	4.00	35.00	Queen Louise, white	2.00	15.00
Gaiety, fine variegated.....	4.00	35.00	Crane, scarlet.....	1.00	10.00
Harry Fenn, crimson	4.00	35.00	Mermaid, salmon, fine.....	1.00	10.00
Apollo, scarlet	4.00	35.00	Armazindy, variegated.....	1.00	10.00
Dorothy Whitney, yellow.....	4.50	40.00	Eldorado, yellow.....	1.00	10.00
Mrs. Joost, pink.....	1.00	10.00			

UNROOTED CUTTINGS AT HALF ABOVE PRICES.

TERMS CASH. We prepay express charges. If plants are not satisfactory, on arrival, return at once and we will pay return charges and refund your money. Our cuttings are grown **OUT DOORS** and rooted **WITHOUT HEAT** and are therefore strong and hardy and free from disease. **SEND US ONE DOLLAR** and we will mail you **SAMPLES** at **HUNDRED RATES.** Orders booked for future delivery.

Giant Flowering Pansy Plants, mixed, \$3.00 per 1000.

Marie Louise Violets, \$3.00 per 100; \$25.00 per 1000.

ALL CHARGES PREPAID.

LOOMIS FLORAL CO., Loomis, Cal.

ENCHANTRESS THE GOLD MEDAL WINNER, having defeated all comers at Madison Square Garden and at Kansas City, now reigns supreme.

Having ordered a large quantity, I am still in a position to book orders for February delivery. Don't delay if you want any.

MRS. E. A. NELSON Has proved all we claimed for it—being free and continuous and ahead of its rivals in pink.

Cuttings guaranteed to be absolutely strong and healthy. January and February delivery.

PRICE, \$6 PER 100; \$50 PER 1000.

S. S. SKIDELSKY, 708 N. 16th St., Philadelphia, Pa.

The Best White Carnation to Date **The Queen**

Reaches highest standard in size, form, calyx, stem, productiveness and keeping quality. A sure winner where ever shown. Price per 100, \$10.00; 250, \$22.50; 500, \$37.50; 1000, \$75.00.

Little South Floral Co., So. Natick, Mass. S. J. Goddard, Framingham, Mass.

LILLIAN POND A Large and Fancy White.

Unlike most fancies it is free and continuous. Starts in to bloom early, sending out large flowers on long stems. It is a strictly fancy flower at all times and commands top notch prices. Order at once and you will not regret it. **PRICES**—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00. Orders booked now for February delivery. **S. J. REUTER, WESTERLY, R. I.**

A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
KENTIA Belmoreana and Forsteriana, extra clean and well grown plants, 2½, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
REX BECONIA, 2 and 3-inch, \$4 and \$6 per 100
BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.
ASPARAGUS Plumosus, 2-inch, \$5; 3-inch, \$8 Sprengeri, 2 inch \$3; 3-inch, \$5, per 100.
DRACAENA INDIVISA, 4, 5-in., \$10, \$25 per 100
ENGLISH IVY, 2 and 3-inch, \$3 and \$6 per 100
CAMPBELL VIOLETS, 3-inch, \$4.00 per 100.
VINCA VAR., 3-inch, \$4.00 per 100.
Chinese Primrose, 3-in., \$5; 4-inch, \$8 per 100

Cut Rate on GERANIUM CUTTINGS.

Single Grant, 75c per 100.
 S. A. Nutt, Double Grant, La Favorite, Bonnot, \$1.00 per 100.
 Jaulin, Poitevine, Riccard, Mrs. E. G. Hill, Frances Perkins, \$1.25 per 100. Cash or C. O. D.

GEORGE EMMANS, NEWTON, N. J.

CARNATIONS

ROOTED CUTTINGS.

ETHEL CROCKER.....\$10.00 per 1000
DOROTHY, NELSON, CRESSBROOK, ENQUIRER, QUEEN LOUISE, ALBA, LORNA, HER MAJESTY, APOLLO, ESTELLE, ADONIS, MORNING GLORY, GAITY, MRS. HIGINBOTHAM, PROSPERITY, ROOSEVELT.

Let me estimate on your orders, and please state how many of each variety will be wanted and when they are to be delivered.

ALBERT M. HERR, LANCASTER, PA.

Miss Louise Faber

The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink shade, similar to a well colored Bridesmaid rose and average 3 to 3½ INCHES. Contiguous bloomer when once started and calyx over bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for FEBRUARY delivery from now on.

FICK & FABER, SAN MATEO, CAL.

PANSIES

Roemer's Superb Prize Pansies.

STRONG, FINE STOCKY PLANTS,

Mixed colors, by mail, 75 cents per 100; \$3.00 per 1000; per 10,000, \$25.00.
 Large transplanted plants, in bud and bloom, \$1.25 per 100. \$10.00 per 1000.

CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

MURPHY'S WHITE

CARNATION, ROOTED CUTTINGS, \$6 per 100; \$50 per 1000; \$40 per 1000 in 10,000 lots.

CUT BLOOMS of carnations in quantity.

WM. MURPHY,

Phone Main 4411. 130 E. 3rd St., Cincinnati, Ohio.
 J. GAMMAGE & SONS, London, Ont., Agents for Canada.

Carnation Cuttings

We are now booking orders for rooted cuttings. List of varieties and prices sent on application.
 The Cottage Gardens, Queens, L. I.

Carnation Cuttings NOW READY.

WE can ship at once well-rooted cuttings of the following varieties, free from disease and first-class in every respect. NONE BETTER and seldom equaled.

WRITE FOR QUOTATIONS AND CATALOGUE.

Mrs. Thos. W. Lawson Golden Beauty
 Gov. Wolcott Apollo
 E. A. Nelson Morning Glory
 Estelle Queen Louise
 White Cloud Stella
 Mrs. Potter Palmer Lorna
 Gaiety J. H. Manley
 Viola Allen Joost
 Crane Enquirer

Gov. Roosevelt
 Harry Fenn
 Dorothy Whitney
 Prosperity
 Guardian Angel
 Mrs. Higinbotham
 Dorothy
 Marquis
 Cressbrook

J. D. Thompson Carnation Co.

JOLIET, ILLINOIS.

Carnation Gov. Lowndes.

Color, pure white. Size, 3 to 3½ inches in diameter. Calyx, spreading at the top, making it practically non-bursting. Form, the lower or guard petals stand out straight, retaining the full size of bloom. Petals slightly serrated, and beautifully arranged, forming a full, rounded center. Odor, is very sweet and particularly pleasing. Stem, 19 inches to 2½ feet during the season, and always strong enough to carry the large flower erect. Habit, strong and vigorous; thrives well and grows rapidly. Transplants readily and comes into bloom early, and is not a cropper. It will stand closer planting than most varieties. Productiveness, extremely free flowering. More productive than any other large white. A profitable and high grade commercial variety. Price, \$2.50 per doz.; \$12 per 100; \$100 per 1000. 50 at 100 rate; 500 at 1000 rate.

H. WEBER & SONS, OAKLAND, MD.

All The Best CARNATIONS

The Leading Novelties of 1903.
 The Best Varieties of 1902.
 All the Standard Varieties.
 Order your Rooted Cuttings NOW.
GEO. HANCOCK & SON,
 GRAND HAVEN, MICH.

Mushroom Spawn



Frequent importations from England. Always fresh and lively.

CARNATIONS

Strong, healthy plants, grown on high land.

Portia.....	100	1000	Eldorado....	100	1000
Scott.....	\$4.00	\$35.00	Daybreak...	\$4.00	\$35.00
	4.00	35.00		4.00	

J. J. Styer, Concordville, Pa.

Chicago Carnation Co.
 Joliet, Illinois.

...AN....

Indispensable Adjunct

TO a successful wholesale business is an up-to-date, accurate, complete Trade Directory. Such a book, 418 pages, containing the name and address of every florist, nurseryman and seedsman in America, new list of private gardeners and horticultural supply concerns and much other information will be mailed from this office on receipt of \$2.

AMERICAN FLORIST CO.

324 Dearborn St., CHICAGO, ILL.

Pittsburg.

SUPPLY AND DEMAND A GOOD FIT IN CHRISTMAS WEEK.—RED THE COLOR SOUGHT.—CLOUDY WEATHER INJURES QUALITIES.—NOTES OF THE DECORATIONS AND TRADE DOINGS.

The weather has been warm, considerable rain has fallen and the absence of sunshine was conspicuous prior to Christmas. Beauties, Brides and Liberty are the best in quality at present, Cousins and Bridesmaids being soft and of poor color. In carnations Mrs. Lawson, Goethe and Genevieve Lord are the best. The various red shades are good but very scarce and much in demand. Violets have reached the perfection mark and sold at a double quick pace. Orelids and gardenias have been meeting with good sale. Harrisii lilies seem to be at a premium. Poinsettias were good.

The sale of plants for holiday presents has developed remarkably within the past few years. The stores were well stocked with palms, cibtiums, dracaenas, azaleas and Gloire de Lorraine begonias and a large number of these were arranged in fancy baskets and decorated with red ribbons. Red was the popular color everywhere.

Breitenstein & Flemm have had a very attractively decorated store. The walls and ceiling are painted red and the decorations were all red, baskets, ribbons, flowers, fruit and all accessories and at night red candles were used. The effect was one of remarkable beauty.

Charles T. Siebert has a carnation house 48x165. He is making arrangements to construct another house for the growing of asparagus.

John Bader had a decoration every night last week, for the various chapters in the Masonic Temple.

James H. Scaman, Washington, Pa., had a temporary store on Main street for the holidays.

Mrs. E. A. Williams decorated the Pittsburg Club for three occasions this week.

J. B. Murdoch & Company had a big cut of roses and carnations for Christmas.

The Pittsburg Cut Flower Company will handle a line of florists' ribbons.

E. L. M.

DENVER, COL.—Davis Brothers, who recently started in business at Forty-fifth street and Homer boulevard, report things moving prosperously for them.

Mum Stock Plants

Robinson, Merry Xmas, Wanamaker, Monrovia, Bassett, Lincoln, Whilldin, Murdock, Kabb, Bonaffon, Childs, Halliday, Appleton, Sunderbruch, Perrin, Pacific. \$4.00 per 100.

Eaton and Chadwick, \$6.00 per 100.

JOHN BROD. 349 W. North Ave., CHICAGO.

ALWAYS A WINNER.

Gov. Wolcott Carnation

Per 100 Per 1000
3000 stock plants in perfect condition \$5.00 \$45.00
BOSTON MARKET, white..... 5 00 40.00
LAWSON..... 1 00 33.00
Henry A. Stevens Co., East St., Dedham, Mass.

ROSES

We have in 2x2 1/2-inch pots the following varieties of Roses: 3,000 Maids, 2,000 Kaisersins, 9,000 Perles, 400 Golden Gates, 2,500 La France, 350 Pres. Carnots, 250 C. Souperet, 4,000 Ivory, 1,000 Woottons. Get your order in early for shipment.

WRITE GEO. A. KUHL, PEKIN, ILL.

YELLOW EATON

GOOD JUDGES pronounce it the most valuable commercial Chrysanthemum to be introduced in the spring of 1903. Its color captivates everybody and it has all the other good qualities of Timothy Eaton, without the coarseness sometimes attributed to that variety. \$5.00 per doz; \$30 per 100. Delivery of young stock, March 1, 1903.

ROBERT CRAIG & SON, Market and 49th Streets, PHILADELPHIA, PA.

PRELIMINARY LIST OF

New Chrysanthemums

and other NOVELTIES NOW READY.

Will be pleased to mail to these interested.

Nathan Smith & Son ADRIAN, MICH.

CHRYSANTHEMUMS Large Strong Stock Plants from Bench.

Bentley, 35c each; \$3.00 per doz. C. Holst, 25c each; \$2.00 per doz. Honesty, 25c each; \$2.00 per doz. Prosperity, 25c each; \$2.00 per doz. Providence, 25c each; \$2.00 per doz.

T. Eaton, Appleton, Maud Dean, Childs, Mrs. Chamberlain, Liberty, Chadwick, Orizaba, Lady Roberts, Golden Wedding, Golden Beauty, Bruant, \$1.50 per doz.; \$8.00 per 100.

Mrs. E. D. Smith, White Bonaffon, R. H. Pearson, Bergmann, Willowbrook, Ivory, October Sunshine, Merry Monarch, The Queen, Mrs. J. Jones, Bonaffon, Lucie Faure, Niveus, Eclipse, \$1.00 per doz.; \$6.00 per 100. 6 plants of one variety at doz. rate; 25 at 100 rate.

H. WEBER & SONS, OAKLAND, MD.

Please mention the American Florist when writing.

White CARNATION MARIAN

Just as good to ship as it is to keep at home. Rooted cuttings, \$5.50 per 100; \$15.00 per 1000. Delivery after Jan. 15.

Pips of DORA, any time, \$2.00 per 100. Cash with Order.

ISAAC A. PASSMORE, West Chester, Pa.

Pansy Plants.

MME. PERRET, the finest strain on the market, large plants that will bloom soon at 50c per 100; \$3.50 per 1000; 3,000 for \$10.00.

J. C. SCHMIDT, BRISTOL, PA.

HERRON...

Carnation Grower,

OLEAN, N. Y.

Please mention the American Florist when writing.

'MUM

Stock Plants, Extra Fine.

TIMOTHY EATON, GOLDEN WEDDING, XENO, OCTOBER SUNSHINE, WHITE JONES, YELLOW JONES, SNOW QUEEN, COL. APPLETON, \$8.00 per 100; \$1.50 per doz.

BASSETT & WASHBURN, 76-78 Wabash Avenue, CHICAGO, ILL.

NEW FANCY CARNATION "TIGER."

Color, orange, striped pink, effect of Sunrise rose. Size, 2 1/2-3 1/2-inch, stem 2-3 feet, straight as a wire. Habit, every shoot going to flower at once, dark green foliage; no supports necessary.

Calyx, extra strong, seldom splits.

Flower, type of Mayor Pingree.

Notes: it is an early, continuous and free bloomer.

Shown and won prizes at Kansas City, New York and Baltimore this fall.

Be your own judge. Sample 1/2 doz for 50c prepaid.

The 50c you can deduct from your first order.

12 for \$1.50; \$10.00 per 100; \$75.00 per 1000. 25 at 100 rate, 250 at 1000 rate. 10.0 0 ready Jan. 1st.

J. D. THOMPSON CARNATION CO., Joliet, Ill., Western Agents.

HENRY EICHHOLZ, Waynesboro, Pa.

GERANIUMS Rooted Cuttings

HETERANTHE	Big	100	1000
BUCHNER	lot	\$1.25	\$10.00
VIAUD	now	2.00	15.00
CASTELLANE	ready	2.00	15.00
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ACTEON, LA FAVORITE, LA PILOT, BONNOT AND CASTRIS, \$1.50 per 100.

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BEGONIA GLOIRE DE LORRAINE, Begonia Light Pink Lorraine,

For July and Later Delivery, \$15.00 per 100; \$140.00 per 1000.

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PRICE IN ASSORTED LOTS, FOR EARLY ORDERS:

10 to 12-inch crowns, bushy plants.....	\$40.00 per 100
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We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

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Extra choice lot of compact, bushy, pot-grown plants.

2½-inch pots.....	\$5.00 per 100	5-inch pans.....	\$40.00 per 100
3-inch pots.....	10.00 per 100	6-inch pans.....	9.00 per doz.
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20,000 Mrs. Fisher, R. C. and 2-inch.

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10,000 rooted cuttings and 2½-inch.

Boston Ferns

Any size, from 2½ to 10-inch.

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PLUMOSUS, 2½, 3 and 4-inch.
SPRENGERI, 2½, 3 and 4-inch.

Write **GEO. A. KUHL, PEKIN, ILL.**

Geraniums ROOTED CUTTINGS.

S. A. Nutt and La Favorite, \$1.10 per 100; \$10.00 per 1000. Healthy and well rooted. Will prepay express in United States for 15c per 100; \$1.00 per 1000.

S. A. Nutt from 2 or 2½-inch pots, \$2.00 per 100; \$18.00 per 1000.

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PERSICUM SPLENDENS GIGANTEUM.

Finest strain in the world, ready for immediate shipment, a splendid stock of plants, well budded, from 3-inch pots, \$6.00 per 100; \$50.00 per 1000; from 3½-inch pots, in bud and bloom, \$10.00 per 100; \$90.00 per 1000.

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FERNS.

2½-inch Mixed Ferns..... \$3.00 per 100 Cash
2½-inch Dracæna Indivisa..... 3.00 per 100 or
25 Mixed Ferns, prepaid..... 1.00 C.O.

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HOME-GROWN, FINE, CLEAN
STOCK; GROWN COOL.

Write for Price List. **J. B. HEISS,**
The Exotic Nurseries, DAYTON, OHIO.

Hardy Herbaceous Plants.

Japanese Iris, German Iris and Paeonias, Specialties.

Golden Glow, Eulalias, Day Lilies, Hardy Sunflowers, Dragon's Head, Cone Flowers, Boltonias, Sedums and a long list of other valuable kinds in large supply. Please write for lists of varieties and prices; they will probably surprise you.

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ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong, 2½-inch, \$3.50 per 100.
SPRENGERI, strong, 2½-inch, \$2.50 per 100.

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From bench fit for 3, 4, 5, 6, 7 and 8-in., 2½c, 5c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA

Extra fine, 4 to 7-inch pots, only 12c per leaf.
25 FINE RUBBER PLANTS, 3 feet, \$1 each, or the lot for \$20.00. CASH PLEASE.

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WANTED Fifty Plants
of the

White Impatiens

—STATE PRICE.—

Central Michigan Nursery, Kalamazoo, Mich.

CARNATIONS

Rooted Cuttings of the 1902 varieties can be bought at less than market price during January, for want of room. All healthy plants.

PLEASE SEND FOR PRICE LIST.....

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.....CHICAGO.

ARAUCARIA EXCELSA.

SPECIMENS ONLY LEFT, at the following prices: 5-inch pots, 25, 27, 29, 30 to 35 inches high, 4, 5, 6 tiers, \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each.

KENTIA FORSTERIANA, 25 to 36 inches high, 6-in. pots, 75c to \$1.10 each. Cash with order please.

Godfrey Aschmann, Wholesale Grower and Importer of Pot Plants,
1012 Ontario Street, PHILADELPHIA, PA.

Always mention the American Florist when you order stock.

BUCKLEY'S

Plants and Rooted Cuttings

Go Everywhere and always give Satisfaction

Geraniums The six "KINGS" for bedding; Alp. Riccard, scarlet; S. A. Nutt, crimson; E. G. Hill and Beaute Poitevine, salmon; Mme. Buchner, white; Jean Viaud, pink; strong top cuttings, well rooted—\$2.00 per 100, \$16.00 per 1000.

Petunias DOUBLE FRINGED. Ten novelties selected from Henderson's and Dreer's latest sets, strong rooted cuttings, \$1.25 per 100, \$10.00 per 1000.

Verbenas Our 20th Century Collection of 20 new mammoth varieties, labeled, strong plants from 2-in. pots—\$1.50 per 100, \$14.00 per 1000.

Marguerites Chrysanthemum Frutescens, both white and yellow, strong rooted cuttings—\$1.25 per 100, \$10.00 per 1000.

Alyssum Double Giant, strong rooted cuttings—\$1.25 per 100, \$10.00 per 1000.

Salvia The two best: St. Louis and Bonfire, strong rooted cuttings—\$1.25 per 100, \$10.00 per 1000.

Feverfew Little Gem, strong rooted cuttings, \$1.25 per 100, \$10.00 per 1000. Fine plants from 2½-in., \$2.00 per 100.

Ageratum Two best: Princess Pauline, Stella Gurney, \$1.25 per 100.

Asp Sprengeri Strong plants from 2½-in. pots, \$2.00 per 100, 2-in., \$1.50 per 100.

Smilax Plants from 2-in. pots, \$1.00 per 100.

TERMS: Cash with order or C. O. D., ¼ in advance. SATISFACTION GUARANTEED.

The W. T. Buckley Plant Co., Springfield, Ill.
Please mention the American Florist when writing.

JOSEPH HEACOCK,

WYNCOTE, PA.

GROWER OF...
ARECA LUTESCENS,
KENTIA BELMOREANA,
COCOS WEDDELIANA.

Syracuse, N. Y.

GROWER HAS THREE UNDISSEMINATED CHRYSANTHEMUMS.—STEM ROT IN CARNATIONS.

Walter Meneilly's house of chrysanthemums attracted much attention this fall. Three of the best in his collection are named for Syracuse society women, Mrs. Adelaide White, Mrs. Robert Dey and Miss Charlotte Land. The flower named for Mrs. White is of the Japanese incurved section with a white center, the four outside rows of petals of a shell pink color. Mr. Meneilly has taken several prizes with this variety. The Mrs. Robert Dey chrysanthemum is Daybreak pink of large size. This variety has not yet been publicly exhibited. The Charlotte Land differs from the others, its color being a soft golden yellow. It rivals both the others in size.

Peter Kay is an extensive carnation grower. He has had to fight a great deal this year against stem rot, as has everyone else. The new Governor Wolcott is a favorite with him. The Lawson, he says, has a tendency to burst at this time of the year. Mr. Kay grows two houses of asparagus and has a splendid reputation in that line. A. J. B.

San Francisco.

TRADE ACTIVE JUST BEFORE THE HOLIDAYS.—CROPS GOOD EXCEPT ROSES.—ACCESSORIES LARGELY USED.

Business for the holidays is in full swing at this writing and it promises well, as far as can be seen, a peep at all the nurseries showing that roses will be the scarcest article, and consequently will bring fancy prices. Carnations will be about equal to the demand. Prices will also be good and may be a little higher than last year. Lily of the valley and hyacinths are equal to demand. Daffodils can be seen, a few, and narcissi are plentiful. Violets are somewhat scarce, owing to cold and cloudy weather.

Ribbons will be used in all colors, to suit the flowers, in colored paper boxes, with colored raffia. All colors can be seen of these articles piled up in the stores. Birch bark will be used largely for pot covering, also redwood bark baskets, for plants or flowers.

GOLDEN GATE.

RICHMOND, IND.—H. C. Chessman calls attention to the fact that the next meeting of the Richmond Florists' Club will be at the greenhouses of the G. R. Gause Company, January 19.

NORTH YAKIMA, WASH.—F. A. Huntley, for a number of years professor of horticulture at the Idaho State University, at Moscow, is building greenhouses here to go into business.

IMPATIENS ... THE QUEEN

Fine 2-in. Pot Plants, \$1.25 per doz; \$8 per 100

ASPARAGUS SPRENGERI

From 5-in. Pots, Strong, \$1.50 per doz. \$10 per 100.

BEGONIA REX

12 vars., 2-in., 60c per doz; \$4 per 100.

ROOTED CUTTINGS Sand for List... ..FINE STOCK

CENTRAL MICHIGAN NURSERY, Kalamazoo, Mich.



BOSTON FERNS
ASPARAGUS PLUMOSUS NANUS,

5-in. pots, \$3.00 per doz.
6-in. pots, 5.00 per doz.
6-in. strong 6.00 per doz.
7-in. pots, 7.20 per doz.
4-in. pots, fine plants, \$1.50 per doz.
4-in. pots, extra select, \$2.00 per doz.

FERN BALLS furnished with leaves, \$5.00 per doz.
FERNS FOR DISHES

2-in. pots, good varieties, assorted, \$3.00 per 100.
WRITE FOR LIST.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

B. & A. SPECIALTIES
AZALEAS We have 10,000 from which to select your stock. Place orders at once.

RHODODENDRONS for forcing. Finest stock ever imported. Write for prices.

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500,000 VERBENAS THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 60c per 100; \$5 per 1000; \$45 per 10,000.

NO RUST OR MILDEW.

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We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, BLOOMSBURG, PA.

VERBENA KING.



HEADQUARTERS for VERBENAS.

As we grow more than anybody, (the world beater), 45 of the best select **Mammoth named vars.**, 60c per 100, \$5.00 per 1000; 50.0 for \$23.00; 10,000 for \$40.00.

Heliotropes, 10 best named vars., \$1.00 per 100, \$8.00 per 1000.

Daisies, 4 of the winning varieties, named, \$1 per 100, \$8.00 per 1000.

Colours, 30 of the most popular named varieties, and they are good ones, 70c per 100, \$6.00 per 1000.

Petunia, (Kansas) Double White; this is a grand bloomer and a very strong grower; a good one, \$1.25 per 100, \$10.00 per 1000.

Ageratum, the only 4 varieties: Stella Gurney, Princess Pauline, Copes Pet, and Lady Isabel, the grand white one, 60c per 100, \$5.00 per 1000.

Salvia, 4 of the best select named varieties; they are winners, \$1.00 per 100, \$8.00 per 1000.

EXPRESS PREPAID.

Satisfaction and safe arrival guaranteed in every respect.

THAT CASH OR C. O. D., PLEASE.

List ready Jan. 1st.

C. HUMFELD,

The Rooted Cutting Specialist.. CLAY CENTER, KAN.
Please mention the American Florist when writing.

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2000 fine plants, 2-in., ready for shift, \$2.50 per 100.

PRIMROSES.

200 fine 4-in. plants in bloom, \$8 per 100.

CYCLAMEN.

300 good 2-in. stock, \$3 per 100.

CYPERUS.

150 2-in., \$3 per 100; 3 in., \$4 per 100.

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are right you can make a profit on an advertisement here.



BURBANK'S Shasta Daisy.

Mailing size plants, \$5.00 per 100; \$40.00 per 1000. 25 at 100 rates, 250 at 1000 rates. Prepaid at above figures. Trade list now ready for 1903.

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LOOMIS, CAL.. U. S. A.

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FINE BOSTON FERNS...

7-in. \$60.00; 6-in. \$10.00; 5-in. \$25.00; 4-in. \$15.00, and 2½-in. \$4.00 per 100. All choice cool grown stock, elegant to sell or grow on.

Cheap to Close Out STOCK CHRYSANTHEMUMS
\$4.50 a 100, 75c per doz. **WHITE:** Fitzwygram, Bergmann, Queen, Robinson, Ivory, Jones, Chadwick. **YELLOW:** Whilldin, Bonnafon, Wedding, Appleton. **PINK:** Pacific, Morel, Perrin, Maud Dean. **RED:** Childs. Asparagus Plumosus, 4-in \$15, 5-in. \$25 per 100. **W. H. GULLETT & SONS, LINCOLN, ILL**

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USE
"NICOTICIDE"**

Clean and harmless
as Fumigant or Spray.
Ask your seedsman
for it or write to

**The Tobacco Warehousing
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Miniature Baby Greenhouse



FOR GROWING SMALL PLANTS.

Two Sizes. { No. 1. 11 1/4 x 12 1/4 and 11 inches high.
No. 2. 15 x 16 1/2 and 15 1/2 inches high.
Are folded up in compact package of about one cubic foot; weight about 18 pounds.

SMALL OR No. 1 SIZE.	LARGE OR No. 2 SIZE.
1 house.....\$ 4.50	1 house.....\$ 6.50
2 houses..... 8.50	2 houses..... 12.50
4 houses..... 16.50	4 houses..... 24.00
6 houses..... 24.00	6 houses..... 34.50

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WE NOW OFFER

"Chemicals"

for making LIQUID COMPOST.
Dry powders all soluble in water. Composts cost less than 1/40 per gal. Correspondence invited.

**EASTERN CHEMICAL COMPANY,
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KIFT'S ADJUSTABLE VASE HOLDER

No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$2.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nickled, with three clasps for 5 to 6-inch pots, each \$1.75.

**KIFT'S PATENT Rubber Capped FLOWER TUBES, 1 1/4-inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.**

Fumigating Kind Tobacco Powder

KILLS ALL APHIS IN ONE NIGHT in a house 10x25 ft., at a cost of 1¢. A 5 lb. trial pkg. will cost nothing if you will pay the express charges on it. Our booklet tells of it. Write Dept. C. for it.
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FANCY Baskets, the cream of foreign and domestic art; fine Cycas goods, Sheaves, Cape Flowers, Immortelles, Water-proof Pot Covers, Letters and Mottoes, Jardinieres, Doves, Dyed Moss, etc.

The Best in the Market Always and they sell all the year round. Begin the New Year by sending for our latest catalogue. Profusely Illustrated. Just Issued.

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We are now booking orders for Christmas Decorations. Get our prices at once.

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Sample Free. For sale by dealers.



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"The kind that never fall apart."
If your seedman doesn't handle them, order of us direct.
FACTORY AND OFFICE:
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TELEPHONE NORTH 682.

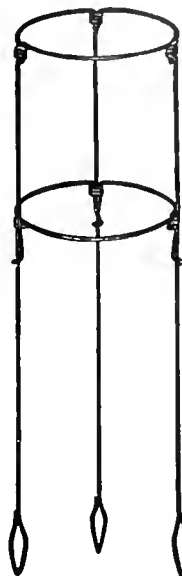
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Ads**

Always do business,
Week days and every day
Sundays and holidays,
All over the country,
At home and abroad.

NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn, N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

**The Model Extension
Carnation Support.**



Flushing, Long Island,
Dec. 11th, 1901.
MR. THERON N. PARKER,
Brooklyn, N. Y.

Dear Sir— I have used your Wire Carnation Support the last two years. In all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.

Very truly,
A. L. THORNE,
La Fayette, Ind.,
July 8th, 1902.

MR. THERON N. PARKER,
Harrison, N. J.

Dear Sir:—After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season.

We were much pleased with the simplicity, strength and neat appearance of the support

Yours truly
F. DORNER & SONS Co.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.

TIN FOIL

Plain, Fancy, Printed & Mounted.

Manufactured by

The Conley Foil Co.

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**"Fumigation
Methods"**

BY PROF. JOHNSON.

Every Grower needs this book..... Price \$1.00

AMERICAN FLORIST COMPANY,
324 Dearborn Street,CHICAGO.

A. HERRMANN,

Cape Flowers, all colors,
Cycas Leaves, Metal Designs,
and All Florists' Supplies.

Send for Prices.

404-412 East 34th St. NEW YORK.

Tarrytown Horticultural Society.

The annual meeting of the Tarrytown Horticultural Society was held December 18. David McFarlane, chairman of the executive committee, reported that the fourth annual dinner will be held at the Florence Hotel, January 14, at 8 p. m. Arthur Herrington, of Madison, N. J., president of the Chrysanthemum Society of America, was present, and made an address in reference to having the local society co-operate with the sister societies around New York and holding a national flower show next fall in connection with the American Institute of New York city. F. R. Pierson, vice-president of the Chrysanthemum Society of America, being present, made some very encouraging remarks in reference to the future of this society.

The regular business of the society was transacted, after which followed the election of officers for the ensuing year, which are as follows: President, David McFarlane; vice-president, Francis Gibson; secretary, Edw. W. Neubrand; treasurer, Jas. T. Laurie; corresponding secretary, H. J. Rayner; executive committee, Wm. Scott, Thos. Lee, Joseph Bradley, James Ballantyne, Wm. P. McCord, Jas. W. Smith, John E. Whyte, John Elliott; board of directors, Wm. Scott, Jas. W. Smith, Jas. Ballantyne, Wm. F. McCord, F. R. Pierson, Fred. E. Weeks, Isaac Requa, Dr. R. B. Contant. E. W. N.

Minneapolis.

ROSE CROPS COME ON TOO SLOWLY.—A VARIETY OF LOCAL AND SEASONABLE NOTES.

Few Beauties have appeared in market the past week and they were like precious stones in value. Carnations have been in ample supply. Holly and Christmas trees have been in great demand at good prices. Good choice holly always finds a ready market at the seller's price.

R. Will is preparing for a large addition to his greenhouse plant, which will be of most modern construction.

The raise in express rates between the Twin Cities and Chicago is causing many kicks.

R. Wessling's rose cut this season has been remarkable.

G. M. Lynes is on the sick list.

C. F. R.

[In our issue of December 13, it was stated that H. Dunn, of Chicago, would take charge of the new cut flower store of Northrup, King & Company. We are now advised that Mr. Dunn will not do so.—Ed.]

CLAY CENTER, KAN.—C. Humfeld says that as yet the call for rooted cuttings has been light, but that he is so confident of a big season that he is preparing much more stock than usual.

100 PER CENT.

SULPHO-TOBACCO SOAP

(PATENTED.)

A Wonderful Insecticide.

Revives Plant Life. Non-injurious.

Prices low. Sales net 100% profit.

Full particulars and sample rake free, if mention this paper.

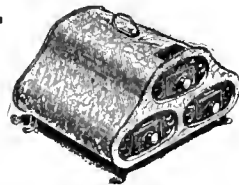
Larkin Soap Co. Buffalo, N. Y.

PROFIT

Florists! INSURE YOUR PLANTS IN WINTER
at but a trifling cost.

**GET A LEHMAN
WAGON
HEATER.**

Over 175,000 in use by Florists, etc. The cost of heating is only TWO CENTS for TWELVE HOURS CONTINUOUS HEAT.
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CYPRESS WRITE FOR CATALOGUE
GREENHOUSE MATERIAL OF EVERY DESCRIPTION
JOHN C. MONINGER CO. 111 TO 125 BLACKHAWK ST. COR. HAWTHORNE AVE. CHICAGO.

Use our Patent
**IRON BENCH
FITTINGS** and
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THE **JENNINGS** IMPROVED
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8. W. Cor. Sixth and Berk Sts., PHILADELPHIA.

1902.

1903.

WISHING YOU THE COMPLIMENTS OF THE SEASON. WE REMAIN, Respectfully yours,

M. Rice & Co. Leading Florists' Supply House.
IMPORTERS AND MANUFACTURERS,
918 Filbert Street. PHILADELPHIA, PA.

REED & KELLER,
122 West 25th St., NEW YORK.
Importers and Manufacturers of

FLORISTS' SUPPLIES.

Galax Leaves and all Decorative Greens.

FRANZ BIRNSTIEL,
COBURG, GERMANY.

Baskets, Puerto Rico Mats, Cycas, Waterproof Crepe Paper, Glass, China.

LATEST NOVELTIES IN ALL FLORISTS' SUPPLIES.
FOR THE WHOLESALE TRADE ONLY.

SPECIALTIES

ROSES, from 3-inch pots,
CARNATIONS, for all delivery,
CHRYSANTHEMUMS,
SMILAX, VIOLETS.

**In Best
Varieties**

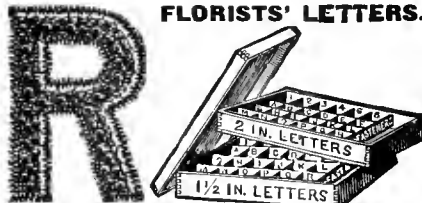
Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.

Please mention the American Florist when writing.

Boston Florist Letter Co.

MANUFACTURERS OF
FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.
Script Letters \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
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HORTICULTURAL SUPPLIES**
Of Every Description.

When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

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Telephone Call, 1700 Madison Square.

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Work Every Day.**

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Embodying all of the special patented features that have made our household models the Standard of Excellence in refrigerator construction. Exteriors of

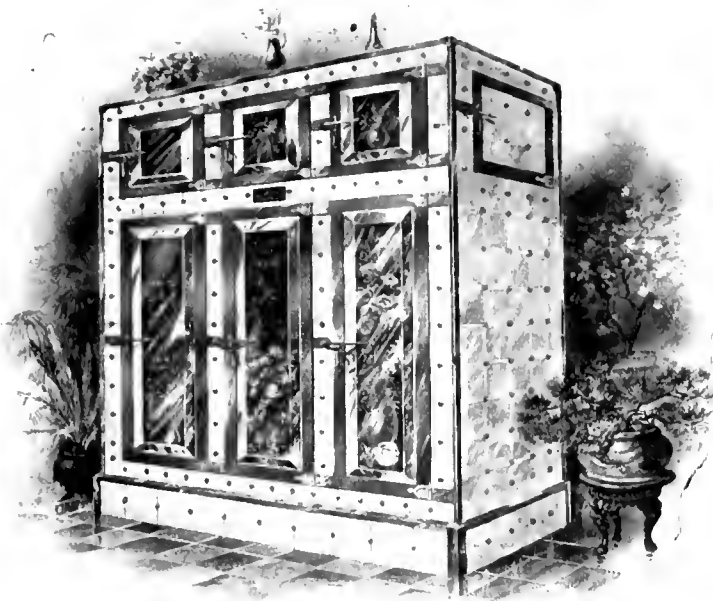
Solid Oak, Porcelain, Plate Glass.
 INTERIOR LININGS OF
Cypress, or One-half-inch Plate Glass, or White Glazed Tile.

They combine beauty with utility and are guaranteed to be entirely worthy and satisfactory in every particular.

Special inducements on present orders for Spring delivery.

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GEO. KELLER & SON,
 MANUFACTURERS OF
FLOWER POTS.
 Before buying write for prices.
 361-363 Herndon Street,
 near Wrightwood Ave.,
CHICAGO, ILL.

Standard Flower Pots

The WHILLDIN POTTERY COMPANY,
 PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
 Travelling Representative, U. CUTLER RYERSON, 108 Third Ave., Newark, N. J.

THOSE RED POTS

"STANDARDS"
 FULL SIZE AND WIDE BOTTOMS.
 BULB PANS AND AZALEA POTS.
DETROIT FLOWER POT M'FY,
HARRY BALSLEY, DETROIT, MICH.,
RED. 490 Howard St.

Standard Flower... POTS

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Pennsylvania Horticultural Society.

The December meeting of the Pennsylvania Horticultural Society was held at Horticultural Hall, Philadelphia, December 16, Vice-President Dr. Geo. Goebel presiding. The election of officers for the ensuing year resulted, as the executive council recommended, in the re-election of the old board. The past year has been an active and successful one. The officers have been earnest workers, and the florists and gardeners have done much to make the exhibitions and monthly meetings the success they were.

The exhibits of the evening were for the Bodine prize for the best plant of *Cypripedium insigne*. John Thatcher was first and F. Canning second. For the Michell prizes for mushrooms John McCleary was first and John Gaynor second. For lily of the valley Albert Fenton was first and Wm. Robertson second. For the Dreer prize for best specimen flowering begonia, F. Canning was first with *Begonia incarnata grandiflora*.

W. P. Peacock, the dahlia specialist, recommended that an extensive dahlia exhibition be made in conjunction with the September, 1903, meeting of the society, several Massachusetts growers having signified their intention of making exhibits, providing suitable arrangements were forthcoming. The motion was adopted and the committee of arrangements requested to prepare a schedule for a two days' show.

The ornamental foliage plants exhibited by John Thatcher at the recent show having brought forth so many encomiums, he was requested to prepare a paper, to be read at the January meeting, giving his methods and a selection of varieties.
F. C.

Troy, N. Y.

The city of Troy has now secured possession of the Warren estate for use as a public park. The city paid to George B. Wellington, as attorney for the Warren heirs, the sum of \$110,000. The property comprises about seventy-five acres and is on a commanding site, giving a wide view up and down the Hudson and across the adjacent territory north to the foothills of the Adirondacks and southwest as far as the Catskills. The work of improvement will be begun in the spring.
R. D.

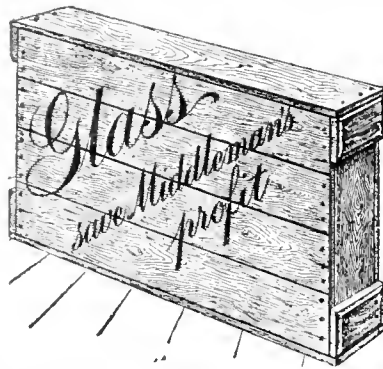
SANDUSKY, O.—John H. Meyer, of the Central Greenhouses, is spending a few days at his old home at New Brighton, Pa.

LAFAYETTE, IND.—Frank Schilling is remodeling his heating apparatus and in the spring will add four houses for forcing vegetables.

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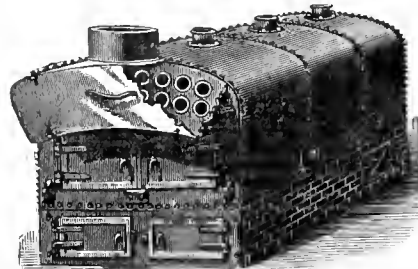
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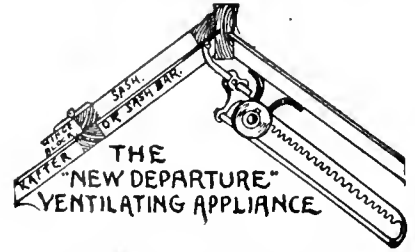
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Vol. XIX.

CHICAGO AND NEW YORK, JANUARY 3, 1903

No 761.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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PUBLISHED EVERY SATURDAY BY

AMERICAN FLORIST COMPANY,
324 Dearborn St., Chicago.

Eastern Office: 79 Milk St., Boston.

Subscription, \$1.00 a year. To Europe, \$2.00.

Subscriptions accepted only from the trade.

Volumes half-yearly from August, 1901.

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OFFICERS-ELECT—JOHN BURTON, president; C. C. POLLWORTH, vice-president; secretary and treasurer as before. Nineteenth annual meeting at Milwaukee, Wis., August, 1903.

THE AMERICAN CARNATION SOCIETY.

Annual convention at Brooklyn, N. Y., February 19-20, 1903. ALBERT M. HERR, Lancaster, Pa., secretary.

AMERICAN ROSE SOCIETY.

Annual meeting and exhibition, Philadelphia, March 24-26, 1903. LEONARD BARRON, 136 Liberty St., New York, secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual convention subject to call of executive committee. EDWIN LONSDALE, Chestnut Hill, Pa., secretary.

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THE CHRISTMAS TRADE.



THE CONSENSUS of opinion classes the Christmas season as the best yet experienced by the flower trade. General satisfaction is apparent in the numerous reports of prosperous business. Supplies were larger than ever before, but prices were higher in many localities. There is now and then a complaint at this, but usually from those who produce little of the stock they handle, for the primary advance was in wholesale hands and on select material, low grades being caused by continued dark, cold weather over a large part of the United States.

Red is the Christmas color. It is apparent that the rose still holds a long lead, but each recurring holidays sees increased call for carnations and this year the prices obtained for fancy colored stock were the best on record. Violets were scarce everywhere. In general bulbous stock sold only when other items were exhausted.

Plant sales generally increased but from here and there comes word of a falling off. Flowering stock was wanted, but the Boston fern was a good seller.

The trade on holly was unprecedented and all decorative greens sold well. Many of the trade reports will be found in this issue.

ATLANTIC, IA.—Chas. Olsan says the cloudy weather and scarcity of coal hurt Christmas sales, but trade was good and prospects fine.

FORT DODGE, IA.—P. L. Larson says sales fell off because of bad weather, 20° below zero Christmas day. Stock scarce because of little sun; bulbous stock and white slow sale.

MONTGOMERY, ALA.—W. B. Paterson says Christmas business was ten per cent ahead of a year ago, stock scarce and prices higher. There was increased call for flowering plants.

BRATTLEBORO, VT.—Business was good, prices reasonable, qualities fair, all orders filled but stock well cleaned up. C. E. Allen notes that bulbous stock is always slow sale at Christmas.

LANCASTER, PA.—G. W. Schroyer reports the holiday results about as last year, prices being a little higher because of the shortage of good stock. There was wider sale for flowering plants.

AKRON, O.—E. J. Bolanz says Christmas business was about as last year; no unusual features. Carnations had most calls. Boston ferns were a great seller. Plenty of bulbous stock but demand only fair.

KOKOMO, IND.—There were enough Christmas roses and a plenty of bulbous stock. Carnations were in increased demand and ran short. W. W. Coles says there was an increased sale for wreathing and holly and that the total of sales was fifteen per cent ahead of last year.

NEW LONDON, CONN.—H. H. Appledorn says holiday plant trade is on the decline; cut blooms had preference but were enough, except violets, for the demand.

HAMILTON, ONT.—E. G. Brown says the holiday business was about the same as last year, stock scarce and prices higher. Bulbous stock was plentiful and sold well. Big sale for Boston ferns and table ferneries.

LINCOLN, NEB.—C. H. Frey says that with sun and favorable weather Christmas would have broken all records. As it was sales were fairly satisfactory. Stock was not up to the demands and qualities were off.

MUNCIE, IND.—The Muncie Floral Company reports Christmas about as last year. Violets were short and the high price of Beauties shut off business on this item. Carnations were wanted. Holly never sold so well.

CLINTON, IA.—With only twenty-five hours of sunshine in December, stock was scarce for Christmas and prices up. Pot plants sold well. The azaleas and Lorraine begonias would be hard to beat. Holly sold better than ever.

PEORIA, ILL.—Except on bulbous stock, for which there was little call, there was not enough Christmas stock, even with prices ten to fifteen per cent higher than usual. Qualities were not up to standard. J. C. Murray says everyone wanted strictly fancy stock and was willing to pay the price. Scarlet carnations were favorites. Plant trade was about as usual.

MOBILE, ALA.—Miss Marie Minge says that Christmas demands are never met in full, except on bulbous flowers. Violets, roses and carnations are most called for. Plants moved slowly, ferns selling best.

GRAND RAPIDS, MICH.—The holiday sales were ten or fifteen per cent ahead of 1901, with enough stock and little sale for bulbous material; qualities averaged well. Henry Smith says plant sales increased all along the line.

DUBUQUE, IA.—Zero and a blizzard made delivery difficult and Christmas sales were only a slight increase over 1901. More colored flowers could have been sold. W. A. Harkett lays deterioration in qualities to the dark weather.

HARRISBURG, PA.—C. L. Schmidt says his Christmas sales doubled and he had stock enough for every one, unless they wanted Liberty or Beauty or red carnations; qualities were fine. Holly never sold so well. Numerous calls for plants.

FREMONT, NEB.—C. H. Green says it was the most satisfactory business on record, but not larger than last year. Stock was good and supplies close up to the demand. Everyone wanted violets and carnations. Boston ferns sold well.

YORK, PA.—Sales were twenty per cent above last year and prices a little better than usual at Christmas, but there was enough stock. Chas. E. Smith found Romans a good seller. All qualities were good. Azaleas and araucarias led in plant sales.

WATERVILLE, ME.—H. R. Mitchell & Son report a satisfactory increase in holiday business, with the largest demand for holly ever known. Prices were reasonable, with enough of everything except violets. There was a decrease in plant sales.

JACKSON, MICH.—Lee & Company say sales increased one-third, largely because prices were twenty-five per cent higher than usual. Violets were short; slack sale on bulbous stock; qualities as good as last year if not better. No increase in sale of plants.

DES MOINES, IA.—The blizzard of the day before Christmas, with 10° below zero, cut into the retail trade but there was a slight increase as compared with last year. Stock was equal to all demands. There was good sale for azaleas, cyclamens and all greens. W. L. Morris says that last year's call for strictly fancy cut flowers did not materialize.

SHARON, PA.—Prices and sales increased at Christmas; carnations had the call but roses and violets were the scarcities. John Murchie says he could have sold more bulbous stock except Paper Whites. There was a big increase in the sale of holly and green.

JACKSON, MISS.—W. J. Brown, Jr., says there was an increase in the sale of plants but cut flower trade was almost a failure, owing to the open winter. On Christmas day roses, Romans and Paper Whites could be gathered in the garden. Such a season was never known before.

ROCKFORD, ILL.—It was extremely cold the day before Christmas but trade increased ten per cent; everyone wanted carnations, but there were plenty, also violets; bulbous stock was abundant and sold well. There was more sale for plants than ever before.

LITTLE ROCK, ARK.—J. W. Vestal & Son report Christmas prices as better than a year ago and sales a very handsome increase, possibly one-third. They filled only about one-half the orders on roses, carnations and violets. There was increased sale for palms.

BLOOMINGTON, ILL.—Conditions were about as last Christmas, except that cloudy weather cut down supplies of the staple cut flowers. Bulbous stock cleaned out. Plant trade was about as usual. J. D. Robinson says that the principal increase in call was for red carnations.

SCRANTON, PA.—G. R. Clark says Christmas business increased ten per cent; prices and qualities as last year; supply equal to demand on cut flowers. Increased call for flowering plants. Poinsettias grown in fern pans were fine and sold out fast at good prices.

JACKSONVILLE, ILL.—Joseph Heil reports Christmas sales about twenty-five per cent ahead of last year; roses and violets short, carnations plentiful, prices about as a year ago, qualities better. Red carnations the item most in demand. No increase in the sale of plants.

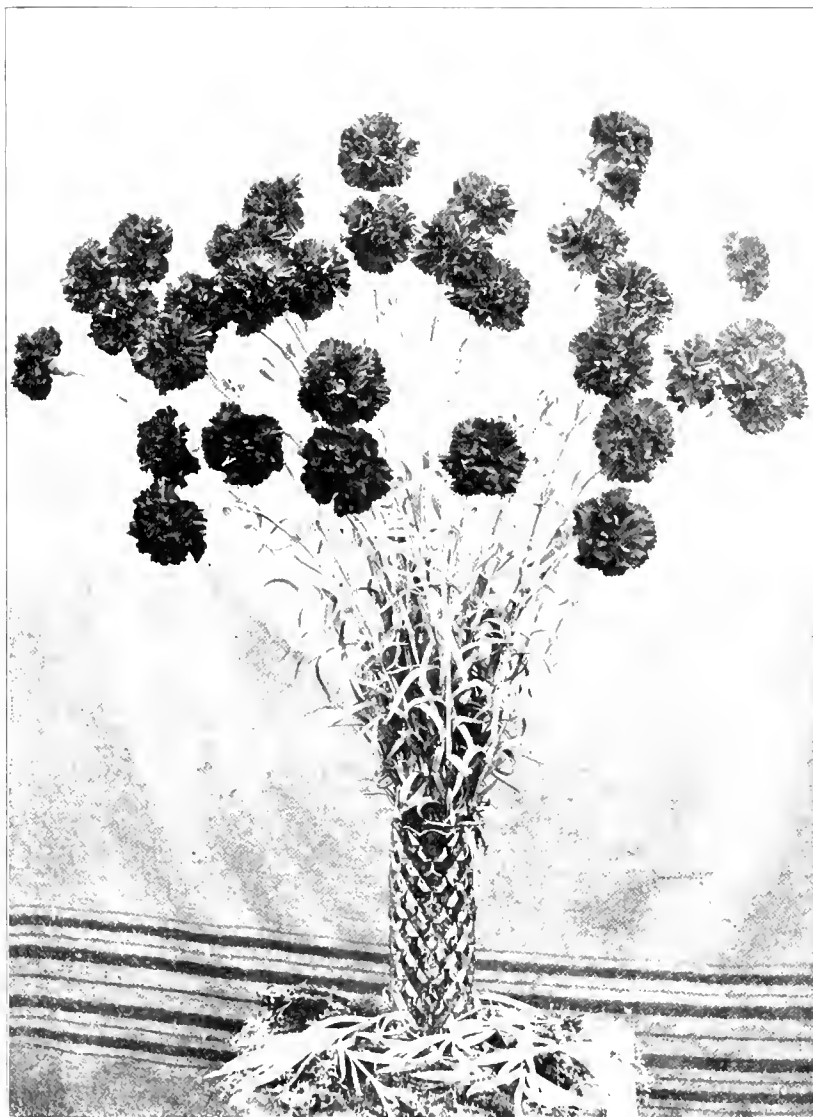
LACROSSE, WIS.—Christmas trade was about as last year, with not enough cut flowers. Qualities were good, except roses, but everyone wanted carnations, especially red; no call for bulbous stock. Plant sales showed no increase, some establishments reporting a decrease.

LEXINGTON, KY.—There was a twenty-five per cent increase in holiday sales, carnations and Beauties extra fine, prices reasonable, sufficient stock and an over-supply of bulbous material. Honaker reports good increase in plant sales and that Lorraine begonias made a big hit.

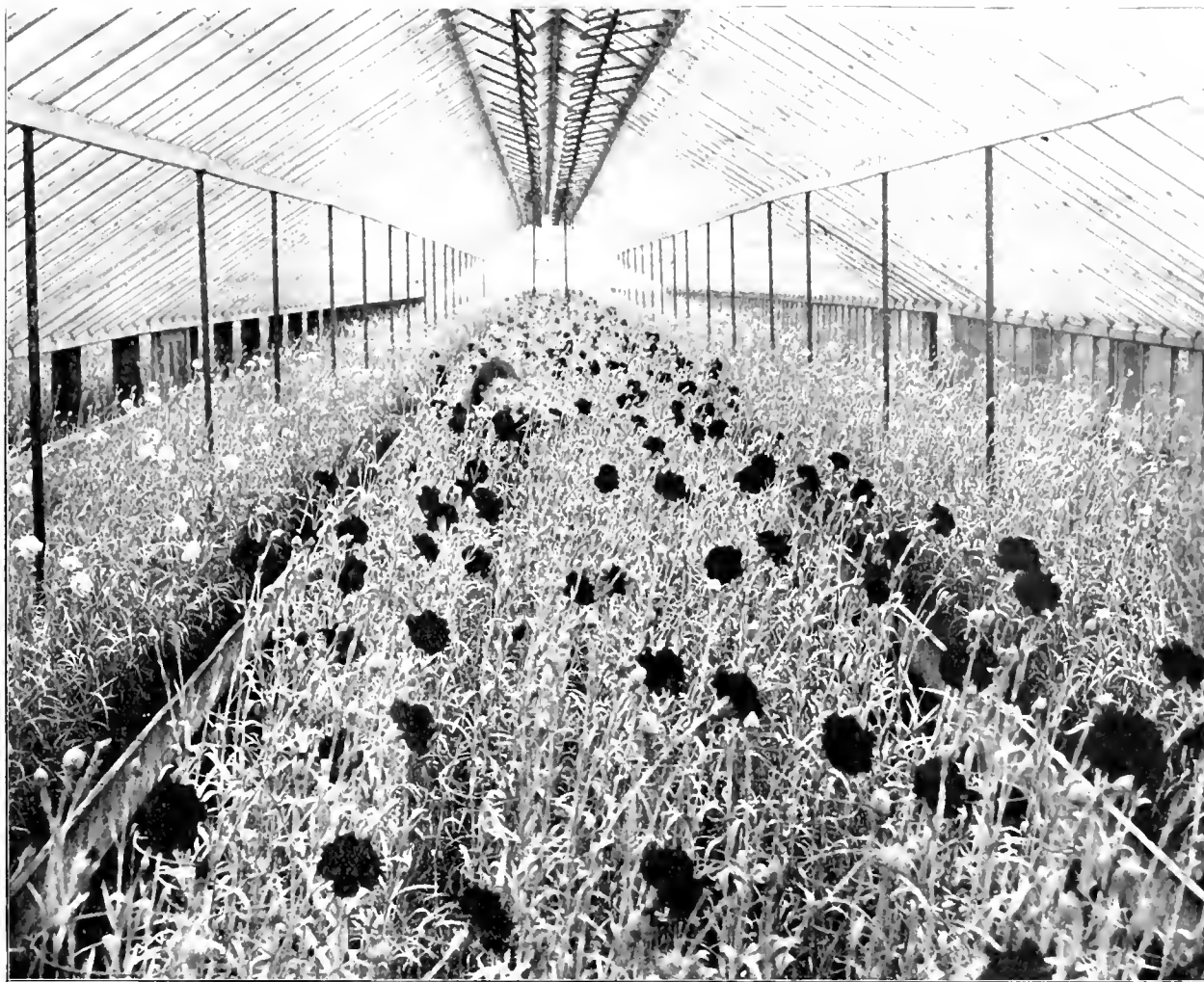
ADRIAN, MICH.—Christmas trade opened late, but prices were a little ahead of last year and the total of sales were practically the same. There was enough stock and qualities were good. Nathan Smith & Son say there was increased call for carnations and azaleas.

DAYTON, O.—There was a shortage of all cut flowers, except bulbous stock, for trade increased twenty per cent. Conditions were about as usual at Christmas. Carnations, especially scarlet, were called for. J. B. Heiss noted a brisk business on cheap flowering plants, with few in market.

MITCHELL, S. D.—S. D. Newbury reports on Christmas trade as follows; Sales increased forty per cent, prices from ten to twenty-five per cent; plenty of stock and little sale for bulbous material;



CARNATION HARLOWARDEN.



A BENCH OF CARNATION HARLOWARDEN AT THE ESTABLISHMENT OF THE CHICAGO CARNATION CO., JOLIET, ILL.

(The girl whose head is seen among the flowers is standing erect, walking on the bench.)

roses soft; a decided falling off in the sale of bouquet green and increased call for holly.

DULUTH, MINN.—John K. Richter says stock was good and in quantity to double last year's sales at the same prices. Big supply of bulbous material and little call. Less sale for Beauties. Violets in big demand. Decrease in all plant sales. A blizzard interfered with business December 24.

BAY CITY, MICH.—Christmas trade was fully up to last year. Boehringer Brothers say that at prevailing prices they had enough stock for everybody; little call for bulbous stock. Their own seedling carnations led their sales. Good demand for Gloire de Lorraine begonias and holly.

ELIZABETH, N. J.—Prices were slightly higher and sales a little greater than at Christmas in 1901. Stock was short, but there is little sale for bulbous material. John White says that it seems impossible to get enough carnations, larger supplies but a shortage every Christmas.

ATCHISON, KAN.—Prices were ten per cent higher than a year ago and sales increased rather more than that. Except on bulbous stock, supplies were far short of the demand. There was big call for red carnations. Mangelsdorf Brothers

report increased sale for decorative plants and say solamums were in great demand.

ST. JOSEPH, MO.—There was a slight increase in Christmas business, prices being a little stiffer. Roses were in adequate supply but carnations and violets short. L. J. Stuppy notes a steadily increasing holiday call for carnations and Boston ferns. Bulbous stock was all used up.

DAVENPORT, IA.—J. T. Temple reports a slight increase in prices and in the total of Christmas sales; roses short, carnations equal to demand, no violets; no call for bulbous stock; marked popularity of poinsettias. Cyclamens and Lorraine begonias were wanted. Severe cold made delivery difficult.

POUGHKEEPSIE, N. Y.—Lynch's report marked increase in Christmas call for Beauties, violets and Lawson carnations. Tea roses were equal to demands. Sales increased ten per cent and prices were better than last year. Plant sales decreased. Holly and Christmas bells were wanted.

FORT WORTH, TEX.—Baker Brothers found Christmas business half again as heavy as last year. Some roses left but not enough carnations or violets; slow sale for bulbous stock. The noticeable increase was in the call for carnations

and blooming plants; decreased sale for decorative plants.

MADISON, WIS.—Christmas sales totaled ten per cent above last year, with retail prices about as then. Roses were scarce and soft, carnations good and equal to an increased demand. Victor Wayman says the holiday call for palms is decreasing very much. His best seller was cyclamens in 4-inch pots.

PORTLAND, ORE.—Prices were ten per cent above last year and total sales increased thirty per cent. Roses were plentiful but carnations and violets were scarce, bulbous stock equal to demand. Martin & Forbes note that the trade was easily handled, more good buyers and not so many "pricing."

HOLYOKE, MASS.—Prices were better than in 1901; enough roses and carnations; violets scarce; plenty of bulbous stock and demand good. Qualities better than last year. E. H. Howland says the call was for Lawson and fancy carnations. Plant trade about as last year, call wholly for blooming stock.

BUTTE, MONT.—The Christmas sales increased thirty per cent, Law Brothers accounting for it by the higher prices, supply being very short except on bulbous stock, for which sales were slow. Qualities were much better than a year ago. There was good call for flowering

plants and few available. The demand for holly and greens exceeded all previous records.

FALL RIVER, MASS.—Stock was scarce but prices were higher and sales went ahead of Christmas 1901. Qualities not up to the mark. Plenty of bulbous stock and slow sale. Every one wanted red. Azaleas sold well. C. Warburton says Lorraine begonias moved slowly. Increased call for green and holly.

RICHMOND, IND.—The E. G. Hill Company notes increased call for high grade stock, particularly Beauties. Sales were twenty per cent ahead of a year ago; prices about as usual; cut flowers short of demand except bulbous stock; qualities poor. Usual sale for plants, principally fern pans and Lorraine begonias.

WATERBURY, CONN.—Christmas buying began early and the total sales increased twenty-five per cent. Carnations sold higher than ever before, other flowers about as a year ago. Everything except bulbous stock was under the demand. Alex. Dallas says violets were the best sellers. All plant sales increased.

KALAMAZOO, MICH.—The Dunkley Floral Company reports Christmas sales as fully seventy-five per cent ahead of 1901. Stock was under the demand, notably in Beauties and Meteors; everyone wanted high colors. Plant business was good, flowering stock being most popular. Good qualities were constantly demanded.

FARGO, N. D.—Cut stock was good and Shotwell & Grayer report an increase of twenty per cent in sales with no increase in plant trade. Supply was about equal to demand but there was little call for bulbous material. Holly and green were wanted everywhere. Delivery was difficult for the temperature was 25° to 30° below zero.

ASHEVILLE, N. C.—Trade, if different from last year, was very little less. Roses were plentiful but poor, carnations short but good and violets fine but not half enough for the very noticeably increased demand; few calls for bulbous stock. The Idlewild Floral Company noted an increased call for plants, berried subjects leading, and say more ribbon and crape paper was used than ever before.

KNOXVILLE, TENN.—There was a twenty-five per cent increase in the volume of Christmas sales, with prices about as last year. Qualities were about as usual, enough cut flowers and all good stock cleaned up. The principal increase in sales was on plants. C. W. Crouch says there was less complaint at prices than usual.

PITTSFIELD, MASS.—Sales, prices and qualities were about as last year. Carnations most in demand and scarce, also violets, other stock abundant, slow sale for bulbous flowers. Plant sales decreased. John White says customers would not purchase Begonia Gloire de Lorraine on account of "its being a poor house plant."

PAWTUCKET, R. I.—Sales were a little ahead of last year, caused by higher wholesale prices, which made retailers ask more. Jas. Nisbet says there was complaint at the charges, 8 cents wholesale being asked for first-class carnations, which is more than the trade will stand. Roses sold best but qualities were not up to standard.

BIRMINGHAM, ALA.—Wm. M. Lindsay says sales were fifty per cent ahead of 1901, with Beauties lower but other stock higher in price. Roses a little short, violets enough but too high, carnations most in demand and far short of requirements, bulbous stock also short. Increased sale on plants in bloom, azaleas leading.

NASHUA, N. H.—Christmas trade was very satisfactory, prices and sales twenty-five per cent higher than last year; plenty of fine carnations, roses, violets and Harrisii lilies. In pot plants poinsettias and Begonia Gloire de Lorraine easily in lead. Holly sold well. A. Gaedeke & Company say the cold weather made plant delivery expensive.

BINGHAMTON, N. Y.—Jos. D. Tully says the report of scarcity put prices up thirty per cent above a year ago, and the total of sales increased nearly as much, but there was enough stock of all kinds except red. Carnations were favorites, with moderate sale on azaleas and Harrisii. There was a big increase in the sale of holly and green.

KANSAS CITY, MO.—Samuel Murray noted the increased call for something fine in made up Christmas baskets of

plants, for large bunches of violets and for fancy carnations. He sold twice as many plants as a year ago. The total of sales showed an increase and stock was a little under the demand. Harlowarden carnation was a good seller.

COLORADO SPRINGS, COL.—Wm. Clark says that owing to fine weather the stock with most growers was in good shape for Christmas, the cut larger than last year, with demand less. Beauties went well but did not bring the prices of the last few years. Tea roses, carnations, violets, narcissi and hyacinths were in fair demand and brought good prices.

SPRINGFIELD, MO.—The demand was greater than a year ago but the shortage of stock kept sales down. Roses retailed at \$2.50 and carnations 50 cents to \$1 a dozen. W. A. Chalfant finds that two-thirds the customers want roses; carnations are selling more and more but the rose still leads. Bulbous flowers only sell after other stock is gone. Romans in pans sold best.

VINCENNES, IND.—Sales increased in proportion to the rise in prices as compared with last Christmas. Stock was short, except Romans and Paper Whites, for which there was little demand. Roses were sold and carnations had the call. There was decreased sale on plants. W. A. Reiman says the high prices deterred some would-be purchasers but all good stock sold.

WINONA, MINN.—Christmas prices were rather better than ever before and there was a nice increase in business. More stock could have been sold than was available. Ed. Kirchner had about 500 late chrysanthemums that sold well at \$2 and \$3 a dozen. He opened a downtown store September 1 and good advertising in the local papers brought him a big increase in trade.

CANTON, O.—There was a big increase in the sale of Christmas cut flowers, with a little shortage on roses and carnations. Qualities were good; not much sale for bulbous stock. Plant sales were about as a year ago. Charles Lindacher says that with good weather there would have been a still larger increase, as little stock was sold for cemetery use as compared with former years.

CAMDEN, N. J.—Christmas prices were about as usual but sales increased ten per cent. Carnations were plentiful but roses scarce. Violets and red roses were wanted; small supply of bulbous stock and demand fair, qualities good. There was larger sale on rubbers, Lorraine begonias and araucarias. C. W. Turnley says there was a big call for holly and metal wreaths sold well.

LAFAYETTE, IND.—Everyone wanted carnations for Christmas, especially red or odd shades, and there was a big sale on plants showing bright colors; 8-inch Boston ferns were a good seller at Dorners'. Total sales were fifteen per cent ahead of last year. Roses short and poor, carnations and violets good and about equal to demand. Bulbous stock only salable in mixed boxes.

AURORA, ILL.—Every one agrees to some increase, about ten per cent. Cut flowers not so good as usual; good prices for good stock. Plenty of roses except red; colored carnations short, white in slight surplus; practically no violets; plenty bulbous stock but no demand. Increased sale for flowering plants, because of good quality. J. M. Smely



HOUSE OF LAWSON GROWN BY R. WILL, MINNEAPOLIS, MINN.



CARNATION SUNBEAM AT WM. CLARK'S COLORADO SPRINGS, COL.

says he never could sell Romans in pots but this year fixed some up with winter berries and covered the pots and they went well, the \$1 size most salable.

MANSFIELD, O.—The Berno Floral Company says prices were twenty-five per cent higher than a year ago and sales increased in the same ratio. There was a marked decrease in the call for plants but all cut flowers were under the demand. Bulbous stock sold well, but marked increase was in call for carnations. Green wreaths, of whatever material, sold double last year's record.

SYRACUSE, N. Y.—L. E. Marquisee says Christmas demand was at least twenty-five per cent greater this year than last, notwithstanding the higher prices which prevailed. There were practically no flowering plants in the market save primulas and cinerarias. Palms and Bostons sold well, the latter in the lead. In cut flowers carnations sold at an average of \$1.50, with \$2 and \$2.50 for selected stock. Brides and Bridesmaids sold at \$3, with \$6 for specials.

UTICA, N. Y.—Wm. Mathews estimates the Christmas business here as twenty-five per cent above 1901, prices also being higher. Stock was scarce, violets especially, with qualities about as last year. There was increased call for orchids, violets and roses. Nice rubbers and Boston ferns sold well, also fern dishes well filled. Azaleas, poinsettias and Romans in pans were popular and many holly wreaths were wanted.

SAVANNAH, GA.—Christmas sales are growing every year, twenty per cent advance this time. Cut flowers were good, plenty carnations, and not so big a call as last year; roses in demand and short; Beauties sold up to \$8 a dozen and \$1.50 per dozen for 8-inch stems. Paper Whites sold well but other bulbous stock hung fire. Large palms sold well, also azaleas, Bostons and cyclamens. Unusual demand for holly. John Wolf says every call was for the best.

LONDON, ONT.—This is the way Wm. Gammage & Sons size up the Christmas trade: Sales increased twenty-five per cent; prices from ten to thirty per cent higher than last year; all stock short of the demands, roses some short, carnations very short and violets out of the question; qualities all very fine; carnations called for by everyone. Year by year increased sale for flowering plants, Lorraine begonia a good seller at fine

prices; cyclamens in 7-inch and 8-inch pots brought \$1 to \$1.50 each; increased sale for azaleas and Boston ferns; some stock frozen in delivery.

LOS ANGELES, CAL.—There was a fine advance, forty-five per cent in some stores, in Christmas sales. Prices were better than ever before. Outdoor-grown carnations which last year sold at 35 cents a dozen brought 75 cents this year. All stock was short. There was noticeable call for violets, flowering and decorative plants, holly and wreaths. A. F. Borden, manager of the Redondo Floral Company, says the necessity is for greater care in the production of a higher grade of stock.

CARNATIONS.

TEMPERATURE FOR WHITE CLOUD.

ED. AM. FLORIST:—What is the proper temperature for a house of White Cloud carnations? In a tight house in the southwest would a night temperature of 48° be about right? O. & S.

Better go 2° higher for White Cloud, as it has some inclination to split its calyx in many soils and 48° might help this trouble along. To go over 50° will weaken the grand stem of this variety and while the flowers might be pushed

along faster with a higher temperature, one will lose in the value of the flower and stem. ALBERT M. HERR.

CARNATIONS IN COLORADO.

The accompanying illustrations show two carnation houses at the establishment of William Clark, of Colorado Springs, Colo. The photographs were taken on December 21 and show a fine crop for the Christmas trade. One house is planted almost entirely with Sunbeam and the other with Norway and Bon Homme Richard.

AVERAGE CUT FROM CARNATIONS.

ED. AM. FLORIST:—Having never grown carnations until this year and having good luck with the few I am growing, I have built three more houses for next year, which will take about 4,700 plants, such varieties as Lawson, Marquis, Crane, White Cloud, Peru, Roosevelt and Bradt. I would like to know what the average cut per day for the whole season ought to be when grown well?

G. W. D.

I believe it to be impossible to make a certain estimate of the daily average cut. The main thing is to make the plants produce blooms of a quality good enough to command a ready sale during the season, from November 1 to May 1. The varieties mentioned should produce during that time sixteen to twenty first-class blooms per plant.

C. W. JOHNSON.

NOTES ON SEASONABLE TREATMENT.

After January 1 we always look for settled cold weather and an increasing amount of sunshine. A steady, hard fire at night and plenty of sunshine during the day are the ideal conditions in which to grow carnations and we never fail to see the plants respond to them. The real springtime of the year in the greenhouse dates from January 1, and while outdoor life enjoys the balmy air of May, greenhouse plants are well on in their summer.

While the plants send up new shoots and mature their flowers more quickly the roots will be searching the soil for more plant food and feeding may be started in earnest. Where a good system of manure watering has been installed, in the shape of a tank and a separate set of pipes, this is the ideal way to keep the



NORWAY AND BON HOMME RICHARD AT WM. CLARK'S. COLORADO SPRINGS, COL.

plants supplied with the extra fertilizers they need. A good watering of liquid manure may be given once a week from now on. A half bushel of fresh cow manure to a barrel of water, if allowed to soak for two days, will be found strong enough. To this may also, with safety, be added two quarts of bone and blood to a barrel of water. We do not use chemical fertilizers and therefore do not recommend them. However, where animal manure is scarce and difficult to obtain and chemicals have been successfully used it would be folly to discontinue. Soot and wood ashes we always add to the soil by top-dressing, at the rate of a bushel to 1,000 square feet of bench surface. Soot heightens the color of the flower and wood ashes strengthen the stems. Besides the manure water above recommended, these two materials may be used alternately, every two weeks; that is, use each once a month.

When the slow process of applying manure water with cans is the only way, it would be best to discontinue its use and feed by top-dressing. We find that carnations can be grown just as well by the latter method of feeding. We find sheep manure to be the best to use for this purpose. It contains about the same fertilizing elements as cow manure, only in a more concentrated form. It must be old and well rotted before use. It pays to run it through a half-inch sieve. This puts it into a shape in which it is easily handled and washed into the soil. Applied at the rate of a half cubic yard to a house 20x150 feet will be just right. We refer to that brand of sheep manure that is taken from the cars and sheep pens and goes through no process but rotting, the same as cow manure. Those brands that are advertised in the trade papers are much stronger and must be more moderately used. Using this once in six weeks from now on will be just right, and in addition we use bone and blood, wood ashes and soot alternately as above recommended. Use these three materials at the rate recommended before, a bushel to 1,000 square feet of bench surface. By using these four fertilizers in rotation, and in addition about May 1 a good mulching of rotten horse manure, to hold the moisture in the soil, you will keep up as good a quality of cut flowers as with the manure water.

With the hard firing that you will be doing from now on the soil must be carefully watched for dry spots. There will be scarcely a day when it will not be necessary to touch up the dry places with the hose. We aim to get all parts of the house in about the same condition of dryness, and then give a good soaking. Syringing should also be attended to once a week.

While the plants are growing fast they will need an abundance of fresh air, so this important item must not be neglected. Air is not admitted simply to cool off the temperature. Every particle of air in the house should be completely changed every twenty-four hours. This does not imply that the ventilators should be open every day for just so long. Conditions differ. On a cold day, with a strong wind blowing, and if the house is not very tight, little or no air need be admitted at the ventilators, while on a calm day the ventilators may often be wide open with no steam on. Avoid opening the ventilators wide suddenly. They should be raised gradually as the house warms up, and lowered the same way as it cools down in the afternoon.

Fumigate regularly once a week with

tobacco smoke. If the plants have been kept free from aphids from the beginning of the season, a light smoke at each fumigating will be sufficient. Very heavy smoke will fade the blooms of the colored varieties. Cut the flowers quite closely before smoking and leave them without cutting the next day. The flowers take up some of the odor of tobacco, but if left on for thirty-six hours afterwards they will have passed it off into the atmosphere again.

Cuttings in the sand should be carefully watched. If in the same house with blooming carnations the draught resulting from free ventilation must be offset by the judicious use of water. In the earlier stage of their career in the sand they may be kept quite wet, but from the beginning of the third week on until they are thoroughly rooted water at the sand should be gradually diminished. Sprinkling with a fine rose that delivers the water in very small drops that dry up quickly is much better than to use a coarse spray and be caught with the cuttings wet at night. J.

Notes and Comments.

"Now let us all pull together for a prosperous and happy New Year." Yes, let's, and so say we all of us!

Carnations for the Philadelphia Florists' Club should reach Horticultural Hall not later than Tuesday afternoon, January 6. David Rust has agreed to take care of them upon arrival. They may be forwarded addressed to Mr. Rust, Florists' Club Rooms, Horticultural Hall, Broad street, Philadelphia. Quite an interesting collection is expected and there will be room for all.

Respecting sports of chrysanthemums again, Elmer D. Smith's very interesting article on the subject in a recent number of this journal is instructive, and according to that account chrysanthemums under certain conditions are quite liable to vary in form, which is believed, but so far as his experience and observation have gone no fixed sport in form has been secured. When Mr. Smith speaks or writes he always says something worth listening to, for there is no other person who is in closer touch with the queen of autumn than he; but I yet believe that the time will come when a fixed sport in form among chrysanthemums will be a reality in America as well as it is in Great Britain, as it will be remembered in quoting from Prof. Hanslow's paper a true anemone sport occurred from the reflexed variety King of Crimson and called Mrs. R. A. Mudie.

The double form of *Gypsophila paniculata* ought to be a good thing as a hardy herbaceous plant for cutting in summer for mixing among other flowers, but hardly in the winter season. The *gypsophila* may force readily. I have not tried it, nor would I make the attempt. It would not be so easily managed as is *stevia*, and the difference in its favor as to grace, which it does possess, would hardly compensate for the difference in cost of production. Here is where a little "nature study" would be a help to our friend of the "Sprigs From the Spice Bush." As to the government, it should be "of the people, for the people and by the people," and if it is not, it is the people's own fault. As a general rule, those people who have the most to say against a government are those who will not take the time or the trouble to make an effort to effect corrections.

In looking over the several committees' reports of the Chrysanthemum Society of

America which are on file I find that Mrs. Perrin was not the only variety which was honored by a full score of 100, for Western King was so honored. It was exhibited before all five committees, and the results are as follows: New York, 85; Cincinnati, 87; Chicago, 94; Philadelphia, 95, and Boston 100. If I remember aright this variety, away from home, proved hard to grow. Its possessors must have had it in good quantity and had confidence in its quality to have sent it to all the committees, and it also proved to be a good shipper, which is one of the very essential points in a commercial variety. *Violescent* was also exhibited before the five committees and scored high enough before all, excepting Chicago, where 83 was the number of points awarded; New York, 85; Cincinnati, 90; Boston, 91, and Philadelphia, 96.

Col. D. Appleton, which is still up front as a commercial and an exhibition variety, has the distinguished honor of having been exhibited three years in succession before plants of it were offered for sale. In the year 1897 at New York it scored only 66. Think of it in the light of later developments! In the following year 92 points were awarded by the New York committee, and in 1899 the Philadelphia and Boston committees each awarded 91, and Chicago 95. It does not appear to have been exhibited before the New York committee in the latter year, presumably because it had been before that committee the two years before. Appleton was exhibited by J. R. McDonald in 1897-8 and by John Marshall in 1899 and disseminated later by F. R. Pierson Company.

The *peonia* association appears to be meeting with much encouragement, as it deserves to be. There will be little or no necessity of preparing long essays on its cultivation, as this plant is very well able to take care of itself if it has half a chance. The tree *peonia*, however, may require some special treatment. What magnificent blooms these newer imported Japanese varieties produce, but great care has to be exercised for some years after they are planted in America to watch the suckers which spring from the base of the stock upon which the "Japs" graft the better varieties. If great care is not taken and vigilant watchfulness is not pursued the stock will run away with the more choice varieties. There ought to be some better way of increasing the stock of a given variety than to use the one in general use by the Japanese, else the people in America who have selected something extra fine when in bloom, in a few years will find only a purple variety with single flowers where a gorgeous flower of eight to ten inches across had been before. The herbaceous varieties are much the best for cut flowers. The tree varieties, grand though they are, are hardly suitable for commercial cut flowers. E. L.

WHITE MARSH, MD.—Richard Vincent, Jr., read a paper on "Trucking in the Past and Prospects for the Future" before the Maryland Horticultural Society December 16.

GIBBSBORO, N. J.—One of the features of the John Lucas & Company business is the annual convention of its salesmen and officials from all over the United States, held December 15-20, in 1902. The sellers all reported a prosperous year, with a larger demand than ever before, and bright prospects for 1903. They do a large trade with greenhouse owners.

Boston.

REVIEW OF THE CHRISTMAS MARKET.—ALL RECORDS BROKEN.—TREMENDOUS PLANT TRADE BUT ALL CUT FLOWERS SOLD.—SELLERS MAKE THE PRICES.—MUCH SALTED STOCK GIVES RISE TO REPROACH.—BIG HOLLY TRADE BUT THE DEALERS LOSE.—A VARIETY OF LOCAL AND TRADE DOINGS OF VARYING INTEREST.

As briefly stated in our notes of last week, Christmas trade in Boston surpassed all previous records. The plant trade, especially, took a mighty spurt and gave the cut flower specialty a close run for precedence, although the cut flower trade held its own well and did not seem to suffer in the least. The younger element in the retail trade has broken loose from the peculiar conservatism as to plant adornment which has prevailed here hitherto and a reasonable use of bright-colored receptacles and ribbon gave to the florists' windows more of the gaiety and warmth appropriate to the great festival than Boston has ever seen before. A great many azaleas were sold at good prices, this being perhaps the leading plant in popularity. There was an unusual proportion, however, of very sparsely-flowered specimens, and these were left unsold. Ardisias also enjoyed a big demand and solanums sold well. For small gifts Chinese primroses were a favorite.

The cut flower trade was eminently satisfactory to the retail people. It is not their custom now to assume any great risk by carrying a large supply of flowers, but simply to call upon the wholesalers from hour to hour as occasion requires. They held the wholesalers close to the chalk-line as to quality and freshness of stock and had things generally their own way excepting in the matter of price, over which they were powerless, for once, to exercise any control, there being no surplus of acceptable material. The effect of the prevailing conditions was the sale at good prices of practically all first-class stock that came to the market or the wholesale dealers. It also effected the sale of considerable stock that appeared all right at time of purchase, but disclosed its antediluvian complexion soon thereafter and was responsible for much unquotable language over the telephone and elsewhere, but the major portion of the inferior material that came in—and there was a big lot of it—went just for what it was worth and that isn't much.

How best to prepare for and handle the special demand that is sure to materialize at Christmas is a difficult problem. The wholesaler is overwhelmed with calls for extraordinary quantities of material from parties who are never heard from except at such times. They all want about the same things and they insist that all shall be fresh, the aggregate demand being many times the actual daily product of the growers. In the effort to satisfy this requisition two courses are open. One is to induce an abnormal crop by extra forcing directly before Christmas; the other is to hoard up the cut bloom for several days. The first, frequently indulged in by carnation growers, injures the plants to an extent far beyond the advantage gained and discredits the stock and those who handle it by making it soft and quickly perishable; the latter, while permissible to a reasonable extent, is usually so indiscreetly overdone that many out-of-town buyers refuse to take orders in preference to sending to the city markets for the goods and taking the risk of stale stock. The

quantities of offensive, discolored roses and collapsing carnations that were in evidence around the wholesale marts for a day or two preceding Christmas was an object lesson for observant students of the holiday problem.

The sale of violets was heavy, the supply being inadequate, and prices were paid for violets this time that amazed conservative Bostonians. It is evident that the day of small "mixed boxes" is past. A buyer is no longer satisfied to invest in a gift comprising a few choice buds and carnations bolstered up on a filling of stevia, bits of hyacinth, greens and other odd rubbish, but is willing to pay the price for a bunch of fresh violets or a dozen choice carnations neatly encased in a pretty box, and this kind of a gift is much more appreciated.

The holly question, which gave so much solicitude to dealers beforehand, solved itself in a manner that left some very sore spots. One wholesaler who



Joseph Mahan.

handles many hundred cases of holly and who had made extraordinary efforts to secure a full supply of good material, on being asked as to the outcome, replied with warmth, "I've been buncoed, slugged, sand-bagged—everything has been done to me—and it's a wonder I'm alive." There was no scarcity of holly, there was much more sent to this market than it could reasonably consume. There was plenty of good holly, but it was so mixed up with waste stuff as to lose much of its value and it was impossible to know the character of any single case without opening and inspecting it. The holly shippers must do the business of selecting, packing, caring for and shipping holly if they expect to find a reliable or responsive market here in future. The cases in which the holly is packed are also so carelessly made that few of them arrive intact.

Joseph Mahan, one of Thos. F. Galvin's most capable employes, died of pneumonia on Thursday, December 25. He was an all-round good fellow and exceedingly popular with everyone who came in contact with him during the twenty years he was connected with the flower business. He served some years ago with W. J. Stewart, Welch Brothers and G. A. Sutherland, but most of the

time he has been in the employ of Mr. Galvin. The funeral on Saturday was attended by many of his former associates, including five of the Galvin clerks. His age was 33. Tom. Welch, another of the Galvin clerks, is dangerously ill. Mr. Addison, also, who is employed at Mrs. Rogers' store on Summer street, has been on the sick list for two weeks. Fred. S. Davis, president of the G. and F. Club, has been laid up for several days and Mrs. Lawrence Cotter and Mrs. Wm. Martin are both reported as seriously ill.

The feeling here against the high-handed action of the express companies in almost doubling their freight charges on cut flowers is very bitter. If insisted upon this must work great injury to the shipping trade, which is so essential a factor in the distribution of the immense product seeking a market in this city. The claim of the companies that the risks assumed in carrying perishable goods make an extra tariff necessary is not borne out by the facts, as of all the frozen, belated or otherwise badly handled lots of flowers ever carried to or from this market there is, so far, no case on record where the express companies have made good for the loss.

On Tuesday, December 30, Fred. L. Harris passed his eightieth birthday. That the state of his health would not permit him to observe it in the society of his friends will be universally deplored and thousands of those who love this grand old man of American horticulture will unite in a sincere wish that his health may be restored and his life spared to be enjoyed for years to come.

The greenhouses of F. W. Fletcher, at Auburndale, were frozen solid last Saturday night, no fuel being available except green wood. Successive disasters have caused Mr. Fletcher to determine to settle up and discontinue for the present.

Macklin Brothers, of Cambridge, are to open a branch in a new store which is being erected at the corner of Massachusetts avenue and Upland road.

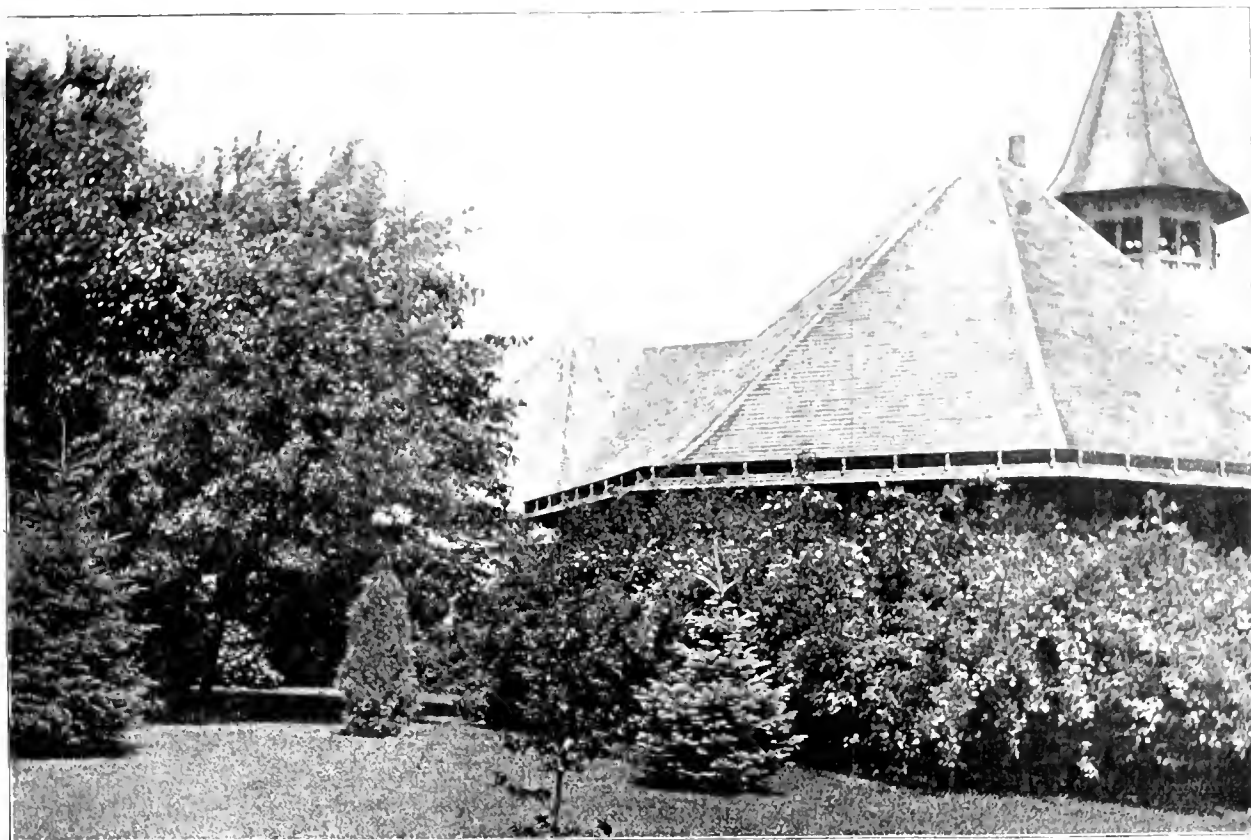
Detroit.

HOLIDAYS BRING BIG BUSINESS.—PLANT SALES RELIEVE THE PRESSURE ON CUT STOCK.—GOOD TRADE ON EVERY ITEM.

Christmas will long be remembered as an event attended with most satisfactory trade results, for such is the report of most local dealers. Anticipating abnormally high prices on cut flowers, most retailers provided a nice stock of flowering plants, ferns and palms, and prepared many baskets of assorted plants, further ornamented with appropriate ribbons, all of which met with ready sale, demonstrating more forcibly than ever the increasing popularity of these gifts of the more permanent character. As a consequence the supply of carnations, violets and roses was about equal to the demand, although the cut of most local growers was diminished by the almost constant cloudy days preceding Christmas. Prices prevailing were about the same as a year ago and very few complaints in that respect were heard.

Contrary to the general expectations, good holly wreaths and ground pine sold well; even Christmas trees were sought for at the floral stores. The weather on Christmas day was severely cold, causing much difficulty in the delivery of goods.

Trade for New Year's day was stimulated by an extraordinary demand for violets and with that exception no special features were noted. J. F. S.



A SCREEN OF HYBRID SWEETBRIER ROSES AND A GLIMPSE OF LAWN.

A Rose Screen.

The hybrid sweetbrier roses, used in this manner, are highly satisfactory. When the canes, twelve feet in length, bend over with the weight of the many pink blooms, the effect, as you come upon it unexpectedly, is very pleasing. After the flowers have passed the seeds give some color and the foliage is quite durable. For this reason it is the most satisfactory rose where such a width of permanent screen is desired. There is a Colorado blue spruce in front of it and the pyramid at left of the center in the illustration is a red cedar. C. B. W.

New York.

REVIEW OF THE CHRISTMAS TRADE.—PLANT SALES UNPRECEDENTED.—GOOD BUSINESS ON EXTRA QUALITY CUT FLOWERS.—RETAILERS' REPORTS VARY AS TO ITEMS IN DEMAND.—NEWSPAPER DOES A SERVICE.—VARIOUS NOTES.

The results of the Christmas wholesale cut flower trade, as tabulated from available reports, indicates that the supply of roses was not proportionately as heavy as that of last year, except in the case of American Beauty, to which a large amount of new glass has been devoted. Quite a few of the latter were left over and some of the retailers overbought. On medium grades of teas there was a shortage and the need of a \$6 or \$8 grade was keenly felt. In carnations, as in roses, the preponderance of call was for reds. Next in order came pink, followed by crimson, white and variegated. There was a large supply of Prosperity and a wide range of prices, the color not being particularly in demand. Violets varied greatly as to values, there being a heavy stock of medium grade

flowers. In consequence of the stormy weather on Christmas morning violet sales suffered; with bright weather all might have been sold. The supply of bulbous flowers was, as usual, cumbrous, with light sales. Poinsettias showed a bad surplus and green material such as asparagus and smilax suffered similarly, mignonette also going slowly. The out-of-town demand was comparatively small, and this fact coupled with the left-over stock of special Beauties, fancy carnations and violets worried the wholesalers not a little.

The leading retailers report variously on detailed results, some recording good demand for items reported by others as unsalable. All agree that outside of the automobile baskets mentioned in our last, nothing of a novel character was in evidence and flowers were sold almost exclusively loose in boxes. They all emphasize the indispensability of high grade material and they protest against stock held in reserve until jaded and assert that there is no difficulty in getting a high price if the goods are only first-class. Beauty, Liberty, Meteor and Bridesmaid roses, carnations in bright colors, violets, poinsettias, lilies and orchids are all credited with a good sale. Holly made an excellent run, as did also red immortelle goods, but wreaths fell off from the record.

The story of the plant trade as given by the retailers is very encouraging. Poinsettias low-grown in pans, Lorraine begonias in hanging baskets, ardisias and red-berried aucubas are universally approved. On oranges, heathers, cyclamens and azaleas reports conflict, azaleas and orange trees having been manifestly overdone. Holly trees, bougainvilleas and daisies were generally unsatisfactory. A better appreciation of red-foliaged dra-

cernas, araucarias and small bright-leaved plants for basket combinations was generally noted and those who had cattleyas to sell made the price as they pleased. Cypripediums and camellias also caught on. Ribbons were used to the entire exclusion of the erape paper and there was a marked call for better qualities in ribbon as well as for a finer grade of bright colored baskets for pot covers, etc.

Since Christmas there has come with the soft weather a sudden and unusually severe drop in prices of cut flowers. Beauties took a precipitate fall from \$12 to \$6 a dozen for the best, and other flowers have suffered in a like degree as to value. At present the market is in a state of demoralization, which the limited New Year's demand can do but little to regulate. Present prospects do not indicate a proper relation between the price of coal and the price of flowers for the balance of the season.

Although the picture was excessively overdrawn, yet it was a valuable service that the New York Herald, on Sunday, December 14, rendered to the flower trade in devoting an entire page, illustrated in two colors, in which it was represented that roses and other flowers are now superseding the common Christmas "greens" for swell holiday decorations. Curtains of evergreen and wild smilax, once considered a pleasing feature of holiday trimming, it said, have been supplanted by deep fringes of purple orchids, roses or violets. Seeing that the Herald's informant omitted the usual scare-head about the extravagant prices people would have to pay for flowers at Christmas and had the good sense to refrain from the ostentatious brag that sometimes finds its way into the floral news columns of the New York dailies

we can conscientiously commend the *Herald's* enterprise, more especially as there is considerable truth in the suggestion that the aristocratic element in a city like New York will not long be content to limit their Christmas decorations to any material that is easily within the reach of the general public. It is, however, too much to expect that these people will forsake entirely the time-honored holly and mistletoe with all the legendary romance associated therewith.

The English holly, which is and always must be expensive as compared with the native brand, fills the bill nicely for those willing and able to pay for something superior. Every year sees heavier importations and larger sales of this elegant material. Sales of it in tree form have been disappointingly slow this year. The cut sprays have, however, been largely used. Beautiful banks for mantel and other decorations are made of it by covering a board with moss, into which the holly branches are thrust, projecting high enough to hide a row of fiber vases which are also fastened to the board and are filled at the proper time with poinsettias, lilies or other showy cut bloom.

This inclination to introduce cut flowers in one manner or another into every form of decorative work is one of the most auspicious signs, from the standpoint of the cut flower grower. The aggressive prominence of late of the plant industry at Christmas, Easter and other floral holidays, is qualified by the the penchant for marked color effects which prompts the artist to combine masses of cut flowers with fancy plant arrangements in baskets and jardinières, a practice which is very general where high-class customers are served in New York.

The action of the express companies in increasing their charges for transporting flowers is looked upon here as a gross injustice. It is confined as yet to the three big trunk companies, Adams, American and National, which practically constitute a trust controlling the greater part of the country. A petition has been presented asking for a restoration of ordinary merchandise rates, and if it is not acceded to the matter will be brought to the attention of the interstate commerce commission. The legislative committee of the S. A. F., of which John N. May is chairman, is acting in concert with the representative New York and New Jersey growers.

Otto Nasher, bookkeeper for August Rolker & Sons, died on December 29, at the Presbyterian hospital, where he had been operated upon for appendicitis. He was an affable, courteous gentleman, always at his post. His age was 42 years and he has been in the employ of Messrs. Rolker for twenty-five years.

The next meeting of the Brooklyn Horticultural Society will be held at the Germania Club, Monday, January 5. Carnation convention preparations will be forwarded.

Hitchings & Company have the contract for a large range of greenhouses at South Elizabeth, N. J., for the Pennsylvania R. R.

The New York Florists' Club's dinner will take place at the St. Denis Hotel on January 31.

BUTTE, MONT.—The *Miner* of December 21 contained an illustrated page write-up of the history of floriculture in this city, with accounts of leading decorations, a large part of which was a very good advertisement of the work of O. A. C. Oehmler

Chicago.

HOLIDAY BUSINESS IS SATISFACTORY TO EVERYONE.—CHRISTMAS GOOD AND THE WEEK FOLLOWING BRINGS FINE SHIPPING DEMAND.—NEW YEAR'S CALLS ARE HEAVY.—BEAUTIES WEAKEN MORE THAN OTHER ITEMS.—QUALITIES AVERAGE LOW.—DOINGS OF THE GROWERS.—JOTTINGS HERE AND THERE.

A summing up of the holiday business finds everyone satisfied with the results achieved, although the cold wave shut off some of the late buying in down-town retail stores and left some stock unsold. Outside retailers suffered less from unfavorable weather and in general report sales up to or a little ahead of last year. The plant trade was up to expectations, good material selling out clean, but there was little seen in the way of novelties, the innovations being in the line of dainty pot covers, ribbons and other handsome accessories. Among the wholesalers the week figured up to a handsome total, particularly pleasing in view of the poor quality of the rose crop and the distressing way in which white stock hung fire. One item on which the market was overstocked was poinsettias. Never before were so many offered, and as a result a great many were left unsold after there had been a very big business in them. The scramble for Christmas roses left the market bare, but it was not long before an unsettled condition began to make itself felt. There is a period just after Christmas when local buyers do not want Beauties and they quickly began to accumulate in the hands of those who do not cater to the shipping trade. The result was that prices eased off to \$8 per dozen for long. Red roses continued far under the demand and good Brides and Bridesmaids have been scarce, for out of town demands have continued heavy all the week and for New Year's there was a call considerably in excess of what it has been in recent years, also for far more good stock than the market could supply. The result was that prices have held right along within fifteen or twenty per cent of the Christmas list. Carnations are more plentiful than roses, but there is not much good stock, a large part of the receipts, particularly Lawsons, being split, undoubtedly as the result of too heavy firing just before the holidays. Violets have come along slowly and have sold out at good prices. There is an accumulation of bulbous stock, including practically everything from callas and Harrisii to valley, Romans and Paper Whites. White stock has hung back all the past ten days, there being little funeral work and this is the season of bright colors.

J. B. Deamud is handling Harlowarden, the new bright crimson carnation of the Chicago Carnation Company which scored 94 points when exhibited in New York recently. It was a popular color for Christmas and he sold the cut for from 12 cents to 15 cents a bloom. It is a large flower and a vigorous grower. A vase of the variety is illustrated on page 830 of this issue and a bench of it is shown in the halftone on page 831.

The trade was inexpressibly shocked to hear of the tragic death, on New Year's day, of Oscar Kreitling, the West Twelfth street retailer, and brother of Walter Kreitling. Mr. Kreitling was attacked in his store by the husband of Mrs. Kreitling's sister, who was arrested and is said to have confessed the shooting. The injured man was taken to the County Hospital, where he died about eight o'clock New Year's night.

Kennicott Brothers Company is receiving from George Hopp, of Grand Rapids, some very fine blooms of his new rose, claimed to be a seedling of Bridesmaid and Mme. Caroline Testout. The color is a beautiful pink, the growth vigorous and the form and substance excellent.

Henry Pfister, head gardener at the White House, Washington, D. C., has been in the city for a few days. With the changes made at the White House the past season, the conservatories are no longer need and Mr. Pfister's term of service will expire next month.

Bentley & Company have a sport of Bride which they propose to nurse with utmost care. It is a pure pink and the flower is larger than the parent. They propose to discard Golden Gate after this season and give its place to Sunrise.

E. H. Hunt has marketed nearly 25,000 poinsettias during the holiday season. Most of them, of course, went out at Christmas, but many were sold this week, Hauswirth using nearly 1,000 in decorations the early part of the week.

With his plants in their present superb condition J. A. Budlong thinks it profitable to cut them up for young stock and he is answering inquiries to the effect that he shall have few rose cuttings this year, but quite a stock of carnations.

Wietor Brothers are still cutting very fair chrysanthemums. They are planning another big addition to their glass area this spring.

W. N. Rudd, who has been confined to his home with bronchitis the past week, is able to be out again.

The Flower Growers' Company is getting in shape to open for business Monday morning.

O. P. Bassett and Mrs. Bassett will leave early next week for a sojourn in California.

At its meeting December 27 the Gardeners' and Florists' Union gained fifty-four members.

Visitors: Chas. Knopf, representing E. T. Grave, Richmond, Ind.; L. J. Stuppy, St. Joseph, Mo.

Kansas City.

HOLIDAY BUSINESS TOTALLY ECLIPSES ALL PREVIOUS RECORDS.—STORE PEOPLE WORK FORTY-EIGHT HOURS AT A STRETCH.—PLANT SALES LARGE BUT CUT FLOWERS NOT BEHIND.

Christmas trade, in all its features, far exceeded that of last year by an average increase of probably thirty-five per cent. Greens of all sorts sold out clean. On Christmas day there was no good holly to be had. Some very fine azaleas, pans of poinsettias, Lorraine begonias, cyclamens and heathers sold quickly and commanded fancy prices. There was an unusual demand for large red immortelle wreaths in crescent form, also for purple wreaths, for cemetery purposes. The demand for cut flowers kept pace with plant sales, even though the weather was unfavorable on Wednesday and Thursday. The quality of cut roses was hardly up to the usual standard, as a result of the dark weather which prevailed for six weeks, also causing stock to come in soft and hard to hold. Carnations were somewhat better, at least the fancy varieties. Select stock of either tea roses, Beauties or carnations brought fancy prices, better than last year. That we are in the midst of an era of prosperity was shown by the manner in which the public purchased, in that there was less haggling over prices. Selections were made more quickly and customers were easily satisfied if the goods were right.

Rock's window contained a well-grown lot of Begonia Gloire de Lorraine, several white swans and some handsome red wreaths. Overhead were hung white bells trimmed in holly. He had a large stock of azaleas, poinsettias and other Christmas plants and his force of twenty people worked all night December 23 and 24 to get out orders.

Newell's two stores were well filled with a choice assortment of all kinds of blooming and foliage plants, which were well cleaned out.

Murray showed a beautiful window of fancy poinsettias surrounded by trimmed pans and boxes of Romans.

J. H. Vesey brought in a fine lot of Lorraine begonias.

Kellogg had nothing to offer on Christmas morning. W.

Philadelphia.

HOLIDAY BUSINESS ALL THAT COULD BE HANDLED.—EVERYONE HAD HIS HANDS FULL.—PLANTS AND CUT FLOWERS BOTH SOLD.—VARIOUS NOTES.

Christmas trade was quite up to the volume of previous years, there being a good sale for all kinds of stock, with possibly a little overstock of carnations as prices softened considerably on Christmas eve; \$25 per thousand would have purchased some very good stock that had previously been held for \$40 to \$50. The early shipments of the holiday stock presented a very drowsy appearance and thousands never got farther than the commission houses. It will always be this way, I suppose. The flowers would probably keep a week in the grower's cool sheds, but when a number come to be packed together in a tight box for from six to twenty-four hours, or possibly more, they will not stand it and the loss falls on the grower. Violets also had been left on the plants until all the fragrance had gone and in some instances from ten to twenty flowers in a bunch of fifty had softened and started to decay. There had been a fine demand for these flowers all through December but the growers would try for a large quantity at Christmas and lost accordingly. Prices of all stock were about the same as last season; \$2 for best double violets, \$12 to \$15 per dozen for special Beauties, \$15 to \$25 for special Brides and Bridesmaids; \$6 to \$8 for carnations.

There is heard considerable talk of plants crowding out cut flowers on account of the high prices of the latter, but I can see no difference, there being about the usual demand for both. Azaleas, cyclamens, begonias, poinsettias, oranges, ardisias and baskets of growing plants all sold as well as their quality deserved, there being very little really good stock left. Harris' red-berried aucubas sold well, as did some of the holly, but some varieties of the latter have a tendency to drop their leaves, which makes them a risky thing to handle.

The commissionmen say they cannot see that plants are crowding cut flowers at Christmas, as the demand was excellent for almost all their stock. Even the high price for top Beauties did not scare the buyers and the market was entirely bare on the morning of Christmas day. Bridesmaids were also very scarce and there were not enough to go around. Taken altogether the trade may be said to have been very satisfactory.

H. Bayersdorfer & Company say their holiday business broke the record and it was all they could do to get their orders out on time. Bells and red wreaths sold

particularly well and the demand was far from satisfied. M. Rice & Company were also much pleased with their Christmas business; in fact they have been under pressure since the season opened in the fall. Their ribbon business has been a great success.

Coal has become very scarce. Any kind is hard to get and the growers are spending many anxious moments these days. I hear of one large firm that was on its last day's supply when a fresh lot arrived.

Wm. Crawford became a partner in the business of Robert Crawford, Jr., on January 1, having withdrawn from the ribbon business of Turnbull & Crawford.

Don't forget the smoker at the club the first Tuesday in January. K.

Denver.

STORY OF THE CHRISTMAS BUSINESS.—PLANT TRADE VERY BRISK.—ALL GOOD STOCK SOLD.—WEATHER FAVORABLE.

This year's Christmas trade was fully up to previous years if not a little better. We were favored with mild, pleasant weather throughout the week, consequently deliveries were gotten off in good shape. As expected, plants took the lead and the market was well stocked. Plants ranging in price from \$3 to \$5 were mostly in favor, although a few good azaleas brought \$8, also made up baskets selling from \$5 to \$15, but we cannot say that the latter met with as much favor as in previous years. Poinsettias were plentiful and sold at \$1 and \$1.50 for single-stemmed plants, while the pans went at from \$3 to \$5. Some very fine cyclamens were offered. Boston ferns, as usual, sold well.

The supply of cut flowers was better than expected, with quality excellent and very little pickled stock. Beauties were much in demand and ran short, particularly in the longer grades. The best brought \$20 per dozen at retail. Tea roses were very fine and the supply of best grades fell short. Carnations turned up in good quantities but were about cleaned out, the best fetching \$2 a dozen. Violets were in ample supply. Valley, Romans and Paper Whites were little called for outside of mixed boxes of flowers.

Holly and greens were handled in about the same quantities as other years, with a better demand and slightly increased prices. Mistletoe was poor and not as much sold as last year. B.

Minneapolis.

CHRISTMAS BUSINESS VERY GOOD.—ADEQUATE SUPPLIES IN MOST LINES OF STOCK.—REPORTS OF RETAILERS.

There did not seem to be such a shortage as was looked for at Christmas, although the demand was great. Carnations were sufficient to meet all calls. Tea roses were not in any scarcity, but cleaned up at good prices. Liberty and Meteor were far short and sold as high as \$18 per hundred. American Beauties were much called for here, the few on hand selling for from \$2 to \$10 per dozen wholesale and as high as \$18 per dozen retail. Violets were scarce and brought \$2 per hundred. Bulbous stock was plentiful.

E. Nagel & Company report a good trade in cut flowers, better in plants, and what holly they had cleaned up at an exceedingly good price.

A few late shipments, caused by carelessness of the express companies, came in Friday and, of course, were refused.

Carl Johnson, of the Powers Mercan-

tile Company, reports that he had no idle moments and no stock to spare.

Ralph Lathom, of Donaldson & Company, said it was the same old story, sold out everything at good value.

Northrup, King & Company had a good call for greens, flowers and Christmas decorations.

R. G. Mendenhall says they cleaned out 200 azaleas, together with good trade on cut stock.

R. Wessling had a good cut of roses, which were a gold mine for him.

A. S. Swanson had good trade and plenty of decorations to see to.

C. F. R.

Worcester, Mass.

Christmas trade was fully up to our expectations but the scarcity of flowers interfered very much with the amount of business done. Flowers were short in all lines except Romans, Paper Whites and lilies, which sold well after the other stock was exhausted. Good prices were realized, Brides and Bridesmaids making from \$2 to \$6, Liberty \$4 to \$8, Beauty \$6 to \$15 retail. Carnations sold at from 75 cents to \$1.50 a dozen. Violets at \$4 a hundred and other stock at slightly increased prices. Nice azaleas, oranges, cyclamens, solanums, English holly trees, primulas and hyacinths in pans were in good supply and sold well at top-notch prices. Fancy baskets of foliage and flowering plants were also popular. Greens sold well and were practically cleaned up by Wednesday noon. The weather was cold and made delivery rather difficult.

Since Christmas business has continued to our satisfaction and many decorations are booked for the immediate future. The stock of flowers has recovered from the furious onslaughts necessary to fill Christmas orders and the supply is now equal to the demand. A. H. L.

Orange, N. J., and Vicinity.

Kershaw Clegg is once more among his friends in West Orange, having returned to his old stand lately leased by Henry Good and, in addition, rented a store at 587 Main street. Bradbury has also opened a new store, on South Orange avenue.

W. A. Manda has filled his five new houses. He has a stock of *Kuelleria macrantha* which he will offer next season as a winter bloomer as a rival to the azalea, it being hardier, more floriferous and of easier cultivation. Another effective plant shown is *Costus igneus*, a free bloomer, and a very pretty *cyripedium*, *C. media superba*, a cross between *Spiraeum* and *hirsutissimum*.

Among the commercial men reporting a satisfactory general and holiday business are George Atkinson, at Llewellyn; John McGowan, Popkin & Collins, Massman, of East Orange; Bernard Kuhn, of Lyons, and Thos. Horlicek. At Mountain Station Perry S. Watrous is making a fine cut of roses for the New York market.

Among the private gardeners all is prosperous. Malcolm MacRorie is showing some very fine Lorraine begonias. Peter Duff is strong on roses and John Hayes is demonstrating the virtues of the new house on the mountain-side with some superb Lawson and other carnations.

The indispensable J. B. Davis is always at hand when any disinterested service is required by the boys or the society and Orange is ever proud of him. S.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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Advertisements must reach us by Wednesday to
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Saturday. Address

AMERICAN FLORIST CO., Chicago.

An English firm now offers *Hydrangea*
Hortensia nivalis, a variegated form.

In England a variegated violet, after
the style of *Mme. Salleron* geranium,
was exhibited recently.

We are in receipt of some blooms of
very good seedling carnations, white,
light pink and dark pink varieties, from
the Swan Peterson Floral Company,
Gibson City, Ill.

ACTING on the rule adopted at the Chi-
cago meeting of the Chrysanthemum
Society of America, the officers deemed it
advisable to withhold, in the report of
the year's work, the scores of sports
exhibited, with the exception of *Yellow*
Eaton, which has been shown to three
committees, which conforms to the new
rule.

We learn from a newspaper report
from London that the supply of flowers
there for Christmas was unusually poor.
Violets, lily of the valley, "arum lilies,"
gardenias, camellias, carnations and
"eucharis lilies" are said to be the flowers
in greatest demand, and for these high
prices were demanded. Holly, however,
is said to be in superb condition. It is
interesting to learn from the same
authority that mistletoe for the London
market is supplied chiefly from the north
of France and from Hereford and other
English apple producing counties, mis-
tletoe from the oak being now very rare.

Collector Doesn't Return.

ED. AM. FLORIST:—A young man giving
his name as Charles Deuvall, claiming to
have worked for the Gasser Company, of
Cleveland, and Mr. Miller, of Toronto,
the raiser of *Timothy Eaton* chrysanthemum,
made a few small collections for me and left
without turning in any money. He was caught
ransacking his boarding house, but was not
detained. He is about 21 years of age, sandy
complexion, blue eyes, about five feet eight
inches tall, weight 145 to 150 pounds,
speaks with a Canadian accent and is a
heavy cigarette smoker.

E. Toledo, O. E. A. KUHNKE.

The Price of Glass.

On December 22, 1902, a new scale of
window glass prices went into effect. On
16x24 A double thick the list is now
\$49.50. On less than car lots, f. o. b.
Chicago, H. M. Hooker Co., are quoting
discounts of 90 and 10 per cent. On car
lots, f. o. b. factory, Sprague Smith Co.
quote discounts of 90, 20 and 21½ per
cent and John Lucas & Co. quote the

same discounts f. o. b. Philadelphia,
Pittsburg or Muncie, Ind., and Casper
Limbach quotes \$4.50 per box f. o. b.
Pittsburg in 100 box lots and \$4.58 per
box in car lots f. o. b. Chicago. Freight
from factory to Chicago averages 11
cents to 12 cents. Some jobbers say
greenhouse sizes are being delivered
slowly, few small sizes being cut. Sharp,
Partridge & Company report a stock of
two or three cars of 16x24 on hand in
Chicago, carried over from last fire.

The Paeonia Idea.

ED. AM. FLORIST:—It looks to an humble
on-looker as though it was a wise move
on the part of the national institution,
the S. A. F., to espouse the cause of the
paeonia and President Burton did well
and is to be commended for drawing
attention to this valuable plant in his
address at the convention at Asheville.
There is no flowering plant in existence
more worthy than the *paeonia* of the
fostering care of that society, not that
the plant itself needs any fostering care
other than to be planted in an open situ-
ation in any ordinary good soil, where
it may get lots of light and air. When
located in that sort of a position it will
go on developing and blooming, whether
an organization for its benefit is in exist-
ence or not, for it will stand more neglect,
yet give a more creditable account of
itself, than any other hardy flowering
plant ever grown. It is very grateful for
any little intelligent attention as to
manure that may be given it, and will
respond nobly for such attention. It will
do well in almost any position except it
dislikes to be buried under shrubbery or
planted too close to big trees.

Its nomenclature, however, needs well
directed, intelligent effort to straighten
out. There is hardly any class of plants
become so hopelessly mixed as to its cor-
rect naming, and that, I take it, is the
main object of the association and it is
due to us all to aid all in our power to
help the good work along. E. H.

Exorbitant Express Rates.

ED. AM. FLORIST:—The action of the
express companies in increasing the rate
on cut flowers fifty per cent calls for a
vigorous protest. A meeting of a num-
ber of New York and New Jersey growers
was held recently in New York to confer
as to the best method of protesting
against this arbitrary and unjust
advance. Cut flowers have always been
classed as first-class and have paid the
highest rates. This makes the action of
the companies especially outrageous and
imposes altogether too much of a burden
upon the shippers. It would seem that
the managers of the express companies
have acted without due consideration of
the case, and it is thought that if the
florists of the country will wake up and
vigorously and unitedly protest against
this action the old rates will be restored.

It is believed that the best way to
accomplish results will be for every inter-
ested party, grower, retailer and com-
missionman to write at once to the
superintendent of his express company,
protesting against the advanced rate.
Every florists' club in the country should,
at its next meeting, pass strong resolu-
tions condemning the advance and
requesting that the old rate be restored.
Copies of these resolutions should at once
be sent to the superintendents of the
various express companies and to John
N. May, 55 and 57 West Twenty-sixth
street, New York city.

Individuals should also send protests
to Mr. May, as well as to the companies.
In this way a mass of protests can be
gathered that will be used where they
will have the most force. This is a mat-
ter of great importance to the shippers of
flowers. The increase in rates will cost
the florists of this country thousands of
dollars annually. Don't delay. Write
your protests at once and mail as
requested.

It should be remembered that almost
all growers deliver their goods at the
railroad stations, and in many cases
load them on the cars, saving the com-
pany the cost of collecting and handling
them at the point of shipment. This
business is regular, everyday in the year,
and it would seem should have an espe-
cially low rate instead of the outrage-
ously high rate which rules at present.
It rests with you, florists. Protest!
Protest! GEO. W. HILLMAN.

St. Louis World's Fair.

Under the classification of trees, shrubs,
ornamental plants, flowers, etc., there
will be installed in the Horticulture pal-
ace and on the grounds of the Universal
Exposition of St. Louis in 1904, displays
as follows:

TREES, SHRUBS PLANTS AND FLOWERS.

Ornamental standard trees, seedlings or grafted.
Ornamental shrubs, deciduous or evergreen.
Plants for the park or for the garden.
Herbaceous plants grown in open ground;
dahlia, chrysanthemums, etc.
Masses and baskets of flowers. Bouquets of
natural flowers.

PLANTS OF THE CONSERVATORY.

Specimens of culture used in different countries
for a color for ornament.
Forced culture of vegetables and fruits: Specimens
of products.

Specimens and varieties cultivated for orna-
ment: Plants from houses of moderate tempera-
ture. Plants from hot houses.

SEEDS AND PLANTS FOR GARDEN AND NURSERIES.
Collection of seeds of vegetables, plants and
trees.

Young trees, seedlings or grafted. Plants and
flowers grown for perfumes or extracts.

GARDEN APPLIANCES AND METHODS.

Tools for gardeners and nurserymen: Spades,
picks, hoes, lawn mowers, garden rollers. Tools
for pruning, grafting, gathering, packing and
transporting produce; pruning and grafting
knives, ladders. Watering apparatus.

Apparatus and objects for ornamenting gar-
dens: Vases, pots, chairs, seats, fountains, labels,
etc.

Glass houses and their accessories: Heating
apparatus, matings, etc.

Aquariums, ferneries, etc., for use in dwellings.
Landscape architecture: Plans, drawings, mod-
els, books, pictures, etc.

SPACE AND POWER FREE.

There will be no charge for space occupied by
exhibits, and a limited amount of power for the
operation of mechanical devices to illustrate pro-
cesses of special interest will be furnished to
exhibitors without charge.

The Prices of Plants.

ED. AM. FLORIST:—Commenting upon
W. L. Smith's letter with regard to the
price of plants, would say in my opinion
the only solution of the difficulty is for
the party complaining to cut off the
unprofitable ends of his business and
substitute, if he can, more profitable
lines. PATRICK O'MARA.

ED. AM. FLORIST:—With reference to
the prices on plants, as set forth by W.
L. Smith, will say that the only remedy
I can see is to follow the tendency of the
times and consolidate. Do away with
competition and it will be an easy
matter to set a price on our commodity
that will be fit to meet the requirements
of the producer and, furthermore, a
better profit can be made, even if prices
were not raised, as a great deal of

expense could be eliminated if the florists' business was properly systematized and organized.

Organization and system are the keys to profit. Knowingly no man sells his goods at a loss, but I believe that a large proportion of the pot plants grown are sold without a fair profit, or at a loss to the producer, especially by the small grower, through the ignorance of cost of production and his prices being forced down by ignorant competition.

It is not the competition of the man whose business is conducted under business principles, and who knows at all times what each department of his business costs and pays him, that need be feared, but the fellow who is plodding along in the dark and who, after he has reached the end of his rope, takes advantage of the bankruptcy laws and then starts anew in his tour of destruction, doing all that he can to pull down with him men who deserve a better fate.

The remedy prescribed may seem rather strong but a serious malady needs drastic measures and I can assure you that if properly applied the cure will be quick and simple. LOUIS WITTBOLD.

ED. AM. FLORIST:—This sentiment of Mr. Smith's ought to awaken a hearty and unanimous response throughout the whole trade. The writer recalls that in 1887 W. F. Gullett, of our firm, but then temporarily in the employ of J. C. Vaughan, went to the establishment of The Garfield Park Rose Company, on West Madison street, Chicago, (John E. Bohan, superintendent) and bought for us about 800 rose plants of such sorts as were then the standard kinds for forcing. The price paid was \$6 per hundred for 2-inch pot stock. Nice, clean plants they were, too, and well worth the money. We believe this establishment was then the leading plant for exclusive rose growing in this part of the country, but we may be in error. This was our first venture into growing roses for cut flowers, and for this reason we have mentioned particulars. For some years following we bought rose plants, always paying \$5 to \$6 for 2½-inch and \$7 to \$8 for 3-inch. Compare these prices with the advertisements we shall presently see, unless there is a reform, offering roses at \$20 per 1,000 for 2-inch and \$35 for 3-inch.

The florists down here in the country think they could point out the ranges of glass responsible for this state of affairs. Are these gentlemen satisfied with that kind of prices for their plants? If so, we fear that no number of columns in your esteemed journal will avail anything. But from long observation we are convinced that the fault is chiefly in the west. We notice that the leading eastern growers hold their rose plants at approximately \$4 to \$5 per hundred for 2½-inch and \$6 to \$7 for 3-inch. No fair buyer need complain of such a rate, if the stock is from selected wood and is well grown. No honest grower but would use extraordinary care to have his stock so if he could realize such compensation for his investment of labor and money.

We hope to see a full discussion of all sides of this matter, but what is more to the purpose, an organized effort to apply the remedy at the point which we consider to be the chief seat of the disease, and this, in our humble opinion, could be located by swinging the segment of a circle some ten or fifteen miles north, west and south from a point in the neighborhood of Lincoln Park, Chicago, Illinois. W. H. GULLETT & SONS.

SITUATIONS, WANTS. FOR SALE.

Situation Wanted—By experienced rose grower and general greenhouse man about 30 years. N. WILSON, Ohio, Ill.

Situation Wanted—As carnation and 'mum grower; 5 years at present position. Address: A R B, care American Florist.

Situation Wanted—As all-around florist and gardener. Best of references; married, no children. State wages. GARDENER, Anna House, 102 North Clark street, Chicago.

Situation Wanted—By first-class grower of roses, carnations, etc., on modern place in Colorado or any far western state. State wages, etc. Address: AUTO, care American Florist.

Situation Wanted—By single German, 31; 20 years' experience; 8 years in this country, cut flowers and pot plants. Want first-class position on good place. State wages. Address: C B, care American Florist.

Situation Wanted—As working foreman, by a reliable and up-to-date grower of roses, carnations, 'mums and general line of pot and bedding stuff. State wages. Address: RELIABLE, care American Florist.

Situation Wanted—To take charge of a retail place. Good grower of roses and general cut flowers; 12 years' experience; single; age 33. A thoroughly reliable man; Ind., Ill. or Kentucky preferred. Address: FOREMAN, care American Florist.

Situation Wanted—As working foreman as grower of roses, carnations, violets, 'mums, bulbs, and miscellaneous plants, 36 years' practical experience in England and United States; single, age 50; English. Address: GEO. H. MOARIS, Westfield, N. J.

Help Wanted—General all-around seedsman. German with family preferred. Address: U S, care American Florist.

Help Wanted—Carnation grower; must be competent and reliable. Address, with full particulars: CARNATION GROWER, care American Florist.

Help Wanted—A first-class man for grafting roses. Must understand the work thoroughly. Apply to: BASSETT & WASHBURN, Hinsdale, Ill.

Help Wanted—Young man who has chance to assist an expert rose grower. Some experience necessary. ASSISTANT, care American Florist.

Help Wanted—A man to look after about 8,000 feet of glass. Must know how to grow carnations, violets, roses and general stock. Send reference. W W, care American Florist.

Help Wanted—Good all-around cut flower grower, single, for a place near Kansas City. Good pay to the right party. Address: GROWER, care American Florist.

Help Wanted—Young man, assistant rose grower, must be willing to work. State references and wages expected. ASSISTANT GROWER, care American Florist.

Help Wanted—Good all-around grower of cut flowers and plants, capable of taking charge of 40,000 square feet of glass near Chicago. Good wages to right man. Address: J. B. DEAMUD, 51 Wabash Av., Chicago.

Help Wanted—Manager or foreman for 50,000 feet of glass; must understand management in general and growing of roses, carnations and general stock. Wages \$100 per month to right party. MANAGEMENT, American Florist.

Help Wanted—Single man to take charge of greenhouse work on extensive private place. Must have good experience in growing roses, carnations, 'mums, and general stock. State wages wanted. Address: JOHN CULLEN, Narberth, near Philadelphia, Pa.

Help Wanted—A good all-around man who can propagate and care for general stock. A young man of reasonable experience, good worker and pleasant manner. Can have a permanent place in a live establishment. Address: LE R, care American Florist.

Wanted—Catalogues. J. H. JACOBSON, 3341 Girard Av., So., Minneapolis, Minn.

Wanted to Rent—8,000 to 15,000 square feet of glass, near Philadelphia, suitable for rose growing; partly stocked preferred. Address: ROSE GROWER, care American Florist.

Wanted—The address of James Kallieck, who worked for H. M. Sanders, Spokane, Wash., about four years ago; will hear of something to his advantage by addressing the American Florist Co., Chicago.

For Sale—In gas belt, modern greenhouses, about 7,000 square feet with stock, in prime condition. Write for particulars. M. E., care American Florist.

For Sale—Greenhouses, 5,000 feet stocked with carnations, roses and bedding plants, and 5 acre garden. Good retail trade in garden and greenhouses. Have southern fever, good opportunity. JOHN KLINK, Chicago, Ohio.

For Sale—Glass, sash bars and ventilating apparatus from two 10x60 greenhouses. Glass 10x24 double strength. Hotbeds boiler No. 16 and 730 1½" 4-inch pipe. Address: H. H. CADWELL, Decorah, Iowa.

For Sale or Rent—About 26,000 square feet of glass without stock. City of 80,000 population. Will sell greenhouses and business, or will sell business and rent greenhouses, or will rent greenhouses without business. Rare opportunity for a first-class grower. BROOKSIDE GREENHOUSES, Reading, Pa.

FOR SALE SMALL FLORIST PLACE, 75 feet or more, new greenhouse 12x10, fully stocked for spring planting: Pansies, violets, shrubs, roses. A bargain. M. BALLING, Wellston Ste., St. Louis, Mo.

For Sale or Exchange.

Fully stocked greenhouses, 20 miles from Chicago, 25,000 feet of glass; steam heat; paying well; part cash, balance good real estate or time to right party. Address: V J 95, care American Florist.

WANTED.

We have an opening in our Flower Seed, Bulb and Plant Department, for a young, experienced man, possessed of ability and push. Apply, with references and salary expected, to

A. SMITH,
care Joseph Breck & Sons, Boston, Mass.

FOR SALE or PARTNER WANTED....

MARKET GARDEN—75 acres, 4 greenhouses, hot water heat, fine residence, good barns and out-buildings; 1 acres in berries; telephone connection with city, 20,000 inhabitants. NO competition in the greenhouse vegetables. It will pay to investigate. Address: BOX 191, EAU CLAIRE, WIS.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address: CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

GARDENERS' and FLORISTS' UNION

No. 10615, Chicago, Ill.

All those who paid their initiation fee at last meeting are requested to mail their names and addresses to Carl Niemann, 130 N. Mozart St., as secretary neglected to take addresses.

Next meeting will be held Wednesday, Jan. 14, at 8 p. m., at 49 La Salle St., Chicago, and applicants may join as charter members at this meeting.

Partner Wanted....

A grower, desirably located, having conducted a most profitable business for some time, is now obliged to refuse good orders on account of lack of capital.

Parties desiring to become jointly interested in a well paying business that will yield excellent returns on an investment, are requested to correspond with the

NATIONAL FLORISTS' BOARD OF TRADE,
NEW YORK.

We did it!
What?

Why, filled your orders for the Holidays, and will continue to do so. Send them along.

J. B. Deamud,
51-53 Wabash Ave., Chicago.
L. D. Phone 3155 Central.

Caldwell's Quality Kounts Brand
Wild Smilax now on hand.

No. 1. \$2.50
 No. 2. \$3.25
 No. 3. \$3.75
 No. 4. \$4.50
 No. 5. \$5.00
 No. 6. \$6.00

The F. R. WILLIAMS CO.
WHOLESALE FLORISTS,
Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.
Telephone Connections. **CLEVELAND, OHIO.**

W. A. HAMMOND,
Richmond, Va.
Wholesale Florist.
Roses, Carnations, Chrysanthemums, Etc.

...GEO. M. KELLOGG...
Largest Grower of... **Cut Flowers**
In the West.
Give us an order and we will please you.
Our Greenhouses at PLEASANT HILL, MO.
Our Store, 906 Grand Ave., KANSAS CITY, MO.
LONG DISTANCE 'PHONE AT EITHER PLACE.

Holton & Hunkel Co.
Wholesale Florists,
457 Milwaukee St., MILWAUKEE, WIS.

SHIPPING LABELS FOR
...Cut Flowers
Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples....
ELECTRO OF THIS LEAF, POSTPAID, \$4.25.
American Florist Co.,
CHICAGO.

Wholesale Flower Markets

MILWAUKEE, Dec. 31.

Roses, Beauty, long, per doz.	10.00@12.00
" " med. "	6.00@ 8.00
" " short "	3.00@5.00
" Liberty	15.00@18.00
" Bride, Bridesmaid	12.00@15.00
" Meteor	15.00@18.00
" Golden Gate	12.00@15.00
" Perle	8.00@10.00
Carnations	4.00@ 6.00
Violets	2.00@ 2.50
Romans, Paper Whites	2.00@ 3.00
Callas	10.00@12.00
Adiantum	.75@ 1.00
Smilax	18.00
Asparagus	65.00

PITTSBURG, Dec. 31.

Roses, Beauty, specials, per doz.	10.00@15.00
" " extras "	6.00@8.00
" " No. 1 "	2.00@4.00
" " No. 2 "	.75@1.50
" Bride, Bridesmaid	6.00@20.00
" Meteor	6.00@15.00
" Liberty	6.00@15.00
Carnations	1.50@ 5.00
Paper Whites, Romans	3.00@ 4.00
Tulips	3.00@ 4.00
Lily of the valley	4.00@ 5.00
Violets	1.00@ 2.50
Smilax	12.00@15.00
Adiantum	1.00@ 1.25
Asparagus, strings	50.00@75.00
" Sprengeri	2.00@ 4.00

CINCINNATI, Dec. 31.

Roses, Beauty	25.00@100.00
" Bride	4.00@12.00
" Bridesmaid	4.00@12.00
" Meteor	4.00@15.00
Carnations	3.00@ 8.00
Lily of the valley	4.00@ 5.00
Harrisii lilies, per doz.	\$2.50
Romans, Paper Whites	3.00
Asparagus	50.00
Smilax	12.50@15.00
Adiantum	1.25

ST. LOUIS, Dec. 31.

Roses, Beauty, long stem	35.00@100.00
" Beauty, medium stem	15.00@25.00
" Beauty, short stem	5.00@15.00
" Bride, Bridesmaid	6.00@15.00
" Golden Gate, Meteor	6.00@12.00
" Perle	6.00@10.00
Carnations	2.00@ 6.00
Violets	2.00
Paper Whites, Romans	3.00@ 4.00
Tuberoses	4.00
Lily of the valley	3.00@ 4.00
Smilax	12.50@15.00
Asparagus Sprengeri	1.50
" Plumosus	.75@ 1.00

E. H. Hunt,
WHOLESALE
Cut Flowers
"THE OLD RELIABLE."
76 Wabash Ave., ...CHICAGO.
Poehlmann Bros. Co.
Wholesale Growers of
and Dealers in **Cut Flowers**
All telegraph and telephone orders given prompt attention. 35-37
GREENHOUSES: Morton Grove, Ill. Randolph Street CHICAGO, ILL.

Bassett & Washburn
76 & 78 Wabash Ave., CHICAGO.
Wholesale Dealers and Growers of **Cut Flowers**
GREENHOUSES: HINSDALE, ILL.

The Cincinnati Cut Flower Co.,
437-439 Main St. **WHOLESALE FLORISTS,**
CINCINNATI, O.
Consignments Solicited.
Special Attention Given to Shipping Orders.

GALAX BRONZE OR GREEN, \$1.00 per 1000; 75c per 1000 in 5,000 lots.
LEUCOTHOE SPRAYS, BRONZE OR GREEN, \$1 per 100.
FANCY FERNS, \$1.50 per 1000.
GREEN SHEET MOSS, choice stock, \$2.50 bbl. sack.
SPHAGNUM MOSS, \$1.50 per bale.
SOUTHERN SMILAX, per 50 lb. case, \$6.00; per 35 lb. case, \$4.50; per 25 lb. case, \$3.50.
All kinds of **FLORISTS' SUPPLIES.**
L. J. KRESHOVER, 110-112 W. 27th St., N. Y. Tel. Call 597 Madison Sq.

H. G. BERNING
Wholesale Florist
1322 Pine St., ST. LOUIS, MO.

RICE BROTHERS
WHOLESALE FLORISTS and FLORISTS' SUPPLIES.
Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.
Special attention given to shipping orders. Send for price list of supplies.
128 N. Sixth St., Minneapolis, Minn.

C. A. KUEHN,
Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

Pittsburg Cut Flower Co. Ltd
WHOLESALE FLORISTS.
Pittsburg, Pa.
Please mention the American Florist when writing.

BEGIN THE NEW ...YEAR RIGHT.

BUY YOUR CUT FLOWERS FROM

E. C. AMLING,

The Largest, Best Equipped and most Centrally Located Wholesale Cut Flower House in Chicago.

32-36 Randolph St. L. Dis. Phones 1999 and 1977 Central. Chicago, Ill.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

WHOLESALE Cut Flowers

Florists' Supplies, Seeds, Etc.
Galax and Leucothoe, Wild Smilax.

Special attention given to shipping orders.
Long distance 'Phones, Main 584 and 748.

J. M. McCullough's Sons
316-318 Walnut St., Cincinnati, O.

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.
600,000 FEET OF GLASS.
Headquarters for American Beauties.
51 WABASH AVE., CHICAGO, ILL.

FRANK GARLAND,

Wholesale Grower of **Cut Flowers**

SPECIAL ATTENTION GIVEN TO HARDY CUT **FERNS**
65-57 WABASH AVENUE,
Telephone Central 3284. CHICAGO.

JOHN MUNO,

Wholesale Grower and Shipper of **Cut Flowers**

Room 221, 51 Wabash Ave., CHICAGO.
TELEPHONE CENTRAL 3598. All telegraph and telephone orders given prompt attention.

It is good business policy to mention the

American Florist

.....when writing to an advertiser.

BENTHEY & CO.

35 Randolph Street, CHICAGO.

F. F. BENTHEY, Manager. Wholesale and Commission **FLORISTS**
Consignments Solicited.

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations **WHOLESALE GROWER of CUT FLOWERS**
A Specialty.....

Wholesale Flower Markets

CHICAGO, Jan. 2.		
Roses, Beauty, 36-inch stems	8.00	
" " 30 " "	6.00	
" " 24 " "	5.00	
" " 20 " "	4.00	
" " 15 " "	2.00	
" " 12 " "	1.50	
" " 6 to 8 " "	1.00	
" Liberty	8.00@25.00	
" Chateaufort	8.00@20.00	
" Bride, Bridesmaid	6.00@12.00	
" Meteor, Golden Gate	6.00@12.00	
" Perle	6.00@10.00	
Cattleyas	\$5.00 per doz.	
Violets	1.50@ 2.50	
Carnations	2.00@ 5.00	
Lily of the valley	4.00@ 5.00	
Asparagus, per string, .60@ .75		
Adiantum	1.00@ 1.50	
Common ferns, per 100, 2.00	.25	
Smilax, per dozen, 1.50@2.00		

Paper White Narcissus,

\$2.00 per 100.

LILY OF THE VALLEY,

\$4.00 and \$5.00 per 100.

JOHN WOLF, Savannah, Ga.

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO.
Send for weekly price list and special quotations on 1000 lots.

GEO. REINBERG,

Wholesale Grower of **Cut Flowers**

CHOICE AMERICAN BEAUTIES.

We will take care of your orders at reasonable prices. Prompt attention.

51 Wabash Ave., CHICAGO, ILL.

HEADQUARTERS IN MICHIGAN FOR FANCY CUT FERNS.

Michigan Cut Flower Exchange.

FANCY FERNS, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around.

GALAX, Green and Bronze, \$1.25 per 1000.

26 Miami Ave., DETROIT, MICH.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

LIBERTIES. Samuel S. Pennock VALLEY. PHILADELPHIA.

GEO. A. SUTHERLAND

34 HAWLEY STREET, BOSTON.

Best Boston Flowers ALL SUPPLIES.

An entire floor Devoted to Stock and Manufacturing. Write now for quotations on Chrysanthemums and all seasonable stock. Telephone 1270 Main.

A FULL STOCK OF Seasonable Flowers.

CITY HALL CUT FLOWER MARKET

WELCH BROS., PROPS.

9 CHAPMAN PLACE, Boston, Mass. 15 PROVINCE STREET,

H. C. RIEDEL.

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RIEDEL & CO.

WHOLESALE

Commission Florists.

34 West 29th Street, NEW YORK.

Strictly Wholesale. Correspondence Invited.

THE

NEW YORK CUT FLOWER CO.

55 and 57 West 26th St., WHOLESALE FLORISTS,

Daily Reports. Weekly Payments. TELEPHONES: 2239 Madison Sq. J. A. MILLANG, 2034 Madison Sq. MANAGER.

GEORGE SALTFORD,

Wholesale Commission Florist,

46 West 29th Street, NEW YORK.

Fair dealing and prompt returns guaranteed. Correspondence solicited.

Author of "How to Make Money Growing Violets."

N. F. McCARTHY & CO.

Best Quality

CUT FLOWERS

and Supplies,

Tel. 734 and 64 Main. 84 Hawley St., BOSTON.

Wholesale Flower Markets

Boston, Dec. 31.

Roses, Beauty, Edgely, extra	40.00@50.00
" " medium	20.00@30.00
" " culls	6.00@ 8.00
" " Bride, Bridesmaid, Meteor	6.00@10.00
" " extra	12.00@16.00
" " Liberty	15.00@25.00
Carnations	2.00@ 3.00
Lily of the valley	2.00@ 4.00
Violets	1.00@ 1.50
Poinsettias	10.00@20.00
Paper White narcissi	1.00@ 2.00
Adiantum	.75@ 1.00
Asparagus	50 00
Smilax	12.50@18.00

PHILADELPHIA, Dec. 31.

Roses, Tea	8.00@10.00
" " extra	15.00@25.00
" " Beauty, extra	50.00@ 100.00
" " firsts	30.00@40.00
" " Queen of Edgely, extra	50.00@100.00
" " firsts	30.00@40.00
Carnations	1.50@ 8.00
Violets	2.00@ 2.50
Lily of the valley	3.00@ 6.00
Asparagus	25.00@50.00
Smilax	12.50@15.00
Adiantum Farleyense	8.00@10.00

BUFFALO, Dec. 31.

Roses, Beauty	25.00@75.00
" " Bride, Bridesmaid, Meteor	10.00@12.00
Carnations	3.00@ 4.00
Violets	1.50@ 2.00
Paper Whites, Romans	2.00@ 4.00
Lily of the valley	3.00@ 4.00
Smilax	15.00@20.00
Adiantum	1.00@ 1.50

The Philadelphia Wholesale Flower Market.

Phones, Keystone and Bell.

1224 CHERRY STREET, PHILADELPHIA.

Is now open and ready for business. Consignments of good stock solicited, especially Valley, Violets and Carnations. Commission, 10 per cent and \$50 annual stall rent, payable monthly in advance. Flowers, choice of this market, carefully packed and shipped at short notice.

Please mention the American Florist when writing.

Give Us a Trial. We Can Please You.



Roses, Carnations and all kinds of Seasonable Flowers in stock.

WM. F. KASTING, Wholesale Commission Florist, 481 Washington St., Buffalo, N. Y. Dealer in Florists' Supplies and Wire Designs. Open Day and Night.

Fancy or Dagger Ferns \$1 Per 1,000.

BRONZE OR GREEN GALAX \$1.00 per 1000. PRINCESS PINE, \$6.00 per 100 lbs. LAUREL FESTOONING, 4c, 5c and 6c per yard. Princess Pine Festooning, all grades. Pine Wreaths and Laurel Wreaths, all grades for Xmas. Be sure and send your orders in early and you will get the best to be had.



Millington, Mass. Tel. office, New Salem.

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg. 6th Ave and W. 26th St., New York. Open for Cut Flower Sales at 6 o'clock Every Morning.

DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.

JOHN DONALDSON, Secretary.

THE KERVAN COMPANY

Southern Smilax; Cycas Palm Leaves, fresh and painted; Fern, Galax, Ivy and Magnolia Leaves; Leucothoe Sprays; Holly; Mosses; all green decorative material. The best that grows. We have no other sort. Write for our list of stock with prices.

Telephone, 1519 Madison Sq.

20 WEST 27th STREET, NEW YORK.

Beauties and Valley Leo. Niessen,

IN QUANTITIES.

WHOLESALE FLORIST,

On end after Sept. 15th will be open from 7 a. m. till 8 p. m. until further notice.

N. W. Cor. 13th and Filbert Sts., Phila.

FLOWERS SHIPPED BY

JOHN I. RAYNOR

ARE THE BEST PRODUCT OF THE BEST GROWERS FOR THE NEW YORK MARKET.

Adiantum Croweanum 49 W. 28th Street, NEW YORK.
Sold here Exclusively. Tel. 1998 Madison Square.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.

Are supplying the most superb stock of FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.
SEND FOR QUOTATIONS.

Walter F. Sheridan, Wholesale Florist,

Telephone 902 Madison Square.

39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square,



MOORE, HENTZ & NASH

Wholesale Commission Florists.

55 and 57 West 26th St. NEW YORK CITY.

Advice of sale note daily. Statement and check weekly. All consignments, large or small, receive the same attention. CORRESPONDENCE INVITED.

VIOLETS. WILLIAM GHORMLEY, VIOLETS. Wholesale Commission

Daily Receiver and Shipper of Fresh Cut Flowers.

Orchids, Roses, Carnations, Valley, Chrysanthemums.

Telephones 2100 and 2200 Madison Square.

57 West 28th Street, NEW YORK CITY.

JOHN YOUNG

Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.

51 West 28th St., NEW YORK.
Tel. 1906 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN NEW YORK CITY FOR

Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

WM. H. GUNTHER,
80 West 29th St., New York.
Telephone 551 Madison Square.

Frank Millang

Open from 6 a. m. to 5. p. m.

Cut Flower Exchange, 55-57 W. 26th St.
Phone 299 Madison Square. NEW YORK.

ESTABLISHED 1872.

JOHN J. PERKINS,

COMMISSION FLORIST,

Solicits Consignments or Shipping Orders. Satisfaction given in both.

Tel. 856 Madison Sq. 115 West 30th St., New York.

Bonnot Bros.

WHOLESALE FLORISTS.

55 and 57 W. 26th St. New York.
Cut Flower Exchange.

OPEN 6:00 A. M.

An Unequalled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.

Traendly & Schenck

NEW YORK CITY,

38 W. 28th Street, Cut Flower Exchange.
New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

NEW YORK, Dec 31.

Roses, Beauty, Edgely, best.....	39.00@50.00
" " medium.....	10.00@20.00
" " inferior.....	5.00@ 6.00
" " Bride, Bridesmaid.....	4.00@ 8.00
" " best.....	12.00@20.00
" " Meteor, Golden Gate.....	6.00@25.00
" " Liberty.....	10.00@50.00
Carnations.....	2.00@ 3.00
" " Fancy and novelties.....	5.00@12.00
Violets.....	.50@ 2.00
Lily of the valley.....	2.00@ 4.00
Cattleyas.....	50.00
Romans, Paper Whites.....	1.00@ 2.00
Poinsettia.....	12.00@20.00
Smilax.....	8.00@10.00
Adiantum.....	.50@ .75
Asparagus.....	35.00@50.00
Sprengerl, doz. hun. 3 00	

J. K. ALLEN

Wholesale Commission Dealer

— IN —

Cut Flowers

106 W. 28th St., NEW YORK.

Telephone 167 Madison Square.

FORD BROS.

Receivers and Shippers of

FRESH FLOWERS,

111 West 30th St., NEW YORK.
Telephone 157 Madison Square.

REPRESENTING EMINENT GROWERS.

Julius Lang

53 West 30th Street, NEW YORK.

COMMISSION DEALER in FLOWERS
TELEPHONE 280 MADISON SQUARE.

ALEX. J. GUTTMAN,

Wholesale Commission Florist,

A full supply daily of the choicest New York and New Jersey

FLOWERS.

62 W. 29th Street, NEW YORK CITY.
Telephone 1738 Madison Square.

A. H. LANGJAHR,

Wholesale Commission Florist,

BEST FLOWERS SHIPPED AT LOWEST NEW YORK PRICES.

19 Boarum Place, Brooklyn, N. Y.
TELEPHONE 939 MAIN.

Hicks & Crawbuck,

WHOLESALE FLORISTS

NEW YORK: 45 West 29th Street. Tel. 2798 Madison Sq.
BROOKLYN, N. Y.: 108 Livingston Street. Tel. 3600-3661 Main.

EDW. C. HORAN,

55 WEST 28TH STREET,

Telephone 421
Madison Square.

.....NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.

This is the time of the year when the crop of dummy inquiries ripens.

D. V. BURRELL will grow about 1,000 acres of vine seeds the coming season.

The Wholesale Seedsmen's League has left the question of carrot prices open.

Good judges of the market think wax beans and sweet corn can hardly be quoted too high.

JOHN LEWIS CHILDS, Floral Park, N. Y., had a serious fire at the Mayflower building within the past week.

The next annual meeting of the American Seed Trade Association will open at Philadelphia, June 23, 1903.

STURGEON BAY, WIS.—The Everett B. Clark Company is placing contracts for 5,000 bushels of peas in this vicinity.

SAMUEL COLE has moved four miles east of Ventura, Cal., and has forty acres devoted to callas, freesias, gladioli and seed beans.

The canners' annual convention, in which many seed houses are interested, will be held at Washington, D. C., February 9-14, 1903.

RETAIL catalogue prices on beans will be high, wax varieties from \$8 to \$9 per bushel; best green podded sorts from \$6 to \$7 per bushel; and linas from \$6.50 to \$8 per bushel.

The catalogue of D. M. Ferry & Company, of Detroit, seems to be the early bird this week. It is, like all the catalogues of that firm, a beautiful affair with colored cover and no less than seven colored plates.

W. W. BARNARD & Co., Chicago, had their catalogue all ready for the press in the hands of the Adventist Publishing Company, Battle Creek, Mich., when that plant was destroyed by fire December 30, and lost everything, plates, cuts and "copy."

JOHN BODGER & SONS, who have a seed farm at Santa Paula, Ventura county, Cal., making a specialty of tomato seeds, have bought forty acres at Oceana, San Luis, Obispo county, but will not move there for some time.

TERRE HAUTE, IND.—On and after January 1, 1903, the business of Hoermann & Cleary will be continued in the name of Frank Hoermann, the former firm having been dissolved by the purchase of Mr. Cleary's interest by Mr. Hoermann.

VISITED CHICAGO: Alexander Rodgers, representing J. Charles McCullough, Cincinnati, Ohio; John W. Kiley, representing the Braslan Seed Growers Company, of San Jose, Cal.; W. H. Small, Evansville, Ind.; George Hayward, representing Tomlinson & Hayward, Lincoln, England.

WEST NEWBURY, MASS.—T. C. Thurlow, the peonia specialist, who has been in poor health for a year, will spend the winter in the south.

HINGHAM, MASS.—Heavy loss was caused by the burning of a large conservatory on the premises of Miss A. S. Bradley on Christmas morning. The fire is supposed to have originated in an explosion caused by gas from soft coal in the heater.

VAN WERT, O.—Charles Wesley McConahy died suddenly of heart disease November 21. He had been in the florist business a little more than two years and was very successful. He was 35 years of age and left a wife, parents, brother and sisters and a host of friends to mourn their loss. He was a member of the M. E. Church, of the Knights of Pythias and of the Royal Arcanum.

OVER 2,000 ACRES IN CULTIVATION.

Braslan Seed Growers Co.

Growers for the Wholesale Trade Only.
Correspondence solicited. SAN JOSE, CAL.

Placing Onion Machine in position to clean a crop 1902, Large Red Wethersfield Onion. Part of a crop of Southport Yellow Globe can be seen at a distance on sheets.

HERE IS ANOTHER BARGAIN IN BULBS FOR EASTER FORGING.

All the Paper White Grandiflora, Horsfieldi, Emperor, Empress, and double-nosed Von Sion Narcissus offered in last week's issue **Are All Sold**. We could have sold them two or three times over. People know a good thing when they see it. We offer below some other good stock at equally low prices. If you can use any of the **Bulbs** offered, let us have order without delay, before we're sold out.

Now that the holidays are past florists are looking forward to Easter, which comes late this spring—April 12—so that there is plenty of time to get any of the stock here offered in bloom by that time. Bulbous stock is selling for good prices on account of the scarcity of other flowers—due to the high price of coal—and as bulbs can be grown in a low temperature, they will make money for you.

Everything offered is in first class shape, and are **Great Bargains at these Reduced Prices**. Send for complete list of surplus bulbs, which we are closing out at equally low prices. When ordering please refer to this special offer.

SMALL SIZED NAMED HYACINTHS. This is wonderfully fine stock for the price. The bulbs are of large size—12-15 cm. in circumference—and are splendid for Easter forcing, either for cutting or growing in pans. Nothing is more readily salable. Although the price is low, the bulbs are first-class. They will throw almost as good flowers as the larger and higher-priced bulbs. If you have never flowered them, try a thousand or two. You will be pleased with the results. They cannot fail to make money for you.

The following pink varieties at **only \$1.50 per 100; \$12.00 per 1000** viz: (Worth \$16.00 per 1000), Baron van Thyll, Gen. Pelissier, Gertrude, Gigantea, Robt. Steeger, Solfataro.

The following blue varieties at **only \$1.50 per 100; \$12.00 per 1000**, viz: (Worth \$16.00 per 1000) Grand Maître, King of the Buns, La Peyrouse, Chas. Dickens, Blondin, Czar Peter, also Tamerlan (yellow).

The following white varieties at **only \$2.00 per 100; \$16.00 per 1000**, viz: (Worth \$24.00) Baroness van Thyll, Grandeur a Merveille, Blanchard, L'Innocence, Mme. Van der Hoop, Paris de l'Europe.

FINE NAMED HYACINTHS, SINGLE AND DOUBLE. We offer also a limited stock of the following varieties in first sized bulbs: **\$3.00 per 100; \$25.00 per 1000**, (Worth \$35.00 per 1000), La Peyrouse, Regulus, Tamerlan

Grand Lilas, La Phœnix, Gen. Pelissier, Grandeur a Merveille, Bloksberg, Bourquet Tendre, Czar Nicholas, Crown Prince of Sweden, Flevo, Garriek, Grootvorst, Gen. Antimek, King of Wurtemberg, La Tour d'Auvergne, La Virginie, Lord Anson, Lord Raglan, Othello, Prince of Orange, Prince of Saxe-Weimar, Princess Royal.

HYACINTHS IN SEPARATE COLORS, SINGLE AND DOUBLE. We still have a few of these left, which we offer as long as unsold at **\$2.50 per 100; \$20.00 per 1000**. (Worth \$26.00).

WHITE ROMAN HYACINTHS. We still have a few cases of fine 12-15 cm. bulbs, which we offer as long as unsold at **\$15.00 per 1000**. (Worth \$25.00 per 1000).

NARCISSUS. These prices will speak for themselves. Per 1000
Von Sion double, extra sized bulbs \$ 7.50
Trumpet Major, single Von Sion 6.00
Princes, Poeticus Ornatus, Barni Consplendus 5.00
The incomparable Stella, incomparable fl. pl., Alba Plena Olorata 4.00
Poeticus, Single Sweet-scented Jonquil 2.0
Golden Spur, Silver Phoenix, Grandis Maximus 15.00

TULIPS, SINGLE AND DOUBLE. Most of the varieties here offered are among the very best forcing varieties, especially for late or Easter forcing: La Reine, Rachel Ransch, Rosamundi Huykman, Bizard Verhelst, Conkeur Ponceau, La Candeur, Yellow Rose, Lady Grandison, Duke of York, Rose Blanche, Count Leicester, 5.00
Cottage Maid, Joost van Vondel, Brutus, Peony Red 6.00
Tournesol Red and Yellow, Gloria Solis, Le Blason, Rosine 7.00
Potrebakzer White, Duc van Tholl Scarlet, Standard Royal Silver, 7.50
Rose Griselin, Belle Alliance, Marring de ma Fille 10.00
Proserpine, Mon Tresor, Conkeur Cardinal 12.00
Joost van Vondel White, Rose Lisante, 20.00

CALLAS. We have a few hundred of these, which can be gotten in fine shape for Easter.
Extra sized bulbs, 1 1/4 to 1 1/2 inch. in diam., \$3.00 per 100. (Worth \$5 per 100).
Selected bulbs 1 1/2 to 1 3/4 inch. in diam., \$4.00 per 100. (Worth \$6.00 per 100).

F. R. PIERSON CO.,

Tarrytown-on-Hudson, N. Y.



A NEW ★ IN THE FIRMAMENT.
Chas. F. Meyer,

(FORMERLY OF HAGEMANN & MEYER.)
Wholesale Importer of Bulbs, Plants and Nursery Stock,
19 Barclay Street, NEW YORK.

SPECIALTIES: Lilies of the Valley, Bermuda and Japan Lilies, Chinese Lilies, Roman Hyacinths, Narcissus and Dutch Bulbs, Azaleas, Palms and Nursery stock.

All imported **direct** from the best growers of their native countries.

MOTTO: "High-Grade Quality First, last, and all the time." My patrons will find me true to my motto.

I recommend my new firm to the kind consideration and patronage of the trade and any orders entrusted to me will be filled with the utmost care and fidelity. In case my representative misses you during the traveling season, write for catalogue with special quotations. Buy the Best at Honest Market Prices.

Yours Respectfully,

CHAS. F. MEYER.

Buyers of AZALEAS AND PALMS, Attention!

Please note that the celebrated Commercial Nurseries

AD. D'HAENE CO., Ltd., Ghent, Belgium,

Have appointed me their sole representative in the United States and Canada for the sale of their products in

AZALEAS, ARAUCARIAS, PALMS AND MISCELLANEOUS PLANTS.

Extensive plantations and new houses have lately been added to the Nurseries and a large stock, unsurpassed in perfection of growth is offered to the trade this season at reasonable prices.

The greatest care is devoted to the cultivation of **AZALEAS** and **PALMS**, and buyers can rely upon receiving well-grown and shapely plants. **FOR SPRING DELIVERY.** Growers having room in their greenhouses during the idle summer months, when no artificial heat is required, will find it to their advantage to import young plants of Palms, Araucarias, Citrus, Ficus, etc., in the spring, as such young plants can be had at a low figure and will grow rapidly into money making, fine salable plants for fall.

My representative will call upon you during the selling season. If you should unfortunately be missed, write for catalogue. I shall be delighted to receive your order. Your turn to be delighted will come when you receive the goods.

CHAS. F. MEYER, 19 Barclay St., NEW YORK.

ESTABLISHED 1802

THORBURN'S SEEDS

LILY OF THE VALLEY PIPS

The finest in the world. Special prices on application.

Dutch Hyacinths and Lilium Longiflorum a few still left.

J.M. THORBURN & CO.

(Late of 15 John Street)

36 CORTLANDT STREET, NEW YORK

To the American Wholesale Seed Trade

We shall have pleasure in quoting special low Contract prices for seed of the under-noted varieties, which we have grown very extensively in Surrey, Essex and Lincolnshire, our principal effort being to produce the very best strains and supply them direct to the Trade at the most moderate prices. Visitors to England are cordially invited to call and inspect our trial grounds and growing crops.

PEAS.

The following are carefully saved from English grown varieties and may be relied upon for "Stock seed" or other purposes:

- | | |
|-------------------------------|----------------------|
| Alaska, | Notts' Excelsior, |
| Alderman, | Sutton's A. I. |
| Autocrat, | Sutton's Excelsior, |
| American Wonder, | Sharpe's Queen, |
| Bountiful, | Stratagem, |
| Daisy, | Sangster's No. 1, |
| Duke of Albany, | The Stanley, |
| Duke of York, | Veitch's Perfection, |
| English Wonder, | William Hurst, |
| Gradus, | William the First, |
| Lightning or Earliest of All, | Yorkshire Hero, etc. |

Mangel Wurzel.

- | | |
|-----------------------|------------------------|
| Colossal Long Red, | Yellow Intermediate, |
| Colossal Long Yellow, | Champion Yellow Globe, |
| Orange Globe, | Golden Tankard. |

BEE T.

- | | |
|----------------------|----------------------|
| Egyptian Turnip, | Globe Varieties, |
| Exhibition Long Red, | Improved, etc., etc. |

CABBAGE.

- | | |
|-----------------------|---------------------|
| First and Best Early, | Selected Nonpareil, |
| London Market, | Drumhead Varieties, |
| Etc., | Etc. |

CARROT.

- | | |
|-------------------|----------------------|
| Early Market, | Long Surrey, |
| New Intermediate, | Selected Altringham, |
| Etc., | Etc. |

RUTA BAGA.

- | | |
|--------------|----------------------|
| Long Island, | Elephant or Monarch, |
| | Scotch Bangholm. |

TURNIP.

- | | |
|---------------------------------------|-----------------|
| Early Snowball, | Yellow Tankard, |
| Aberdeen Yellow Varieties, etc., etc. | |

Specialists in Giant Market Fancy Pansies "CORONATION STRAIN," \$4.00 per ounce, post free.

Wholesale Catalogue Mailed free on application. Special offers made on receipt of quantities required.

EXTRA CHOICE FLOWER SEEDS.

List free on application.

FRED. ROEMER, Seed Crower, Quedlinburg, Germany.

Please mention the American Florist when writing

THE SURREY SEED CO., Ltd., REDHILL, ENGLAND.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. LIGENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

VISITED CHICAGO:—C. H. Perkins, of Jackson & Perkins, Newark, N. Y., enroute to California.

THE end of the year saw extreme cold, as low as 22° above zero, in the Florida orange groves, but good protective work is thought to have averted serious loss.

The Federal Inspection Law.

The legislative committee of the American Association of Nurserymen has resumed the campaign in favor of the national inspection law. The following circular letter has been sent to all nurserymen by C. L. Watrous, Des Moines, Ia., chairman of the committee:

In obedience to the unanimous vote of the association at Milwaukee last June, the committee on legislation is doing its utmost to secure the success of our inspection bill (H. R. 10,999). The committee will go to Washington next week to urge action, and needs your aid. Nothing will help so much as a good, strong personal letter to your congressman and one to your senator. Will you attend to this, writing at once and make your appeal as earnest as you can? We ask uniform rules to govern interstate shipments. At present most states have laws, but there is no uniformity. Some are very drastic and difficult to comply with; others are imperfect; and some states have no laws at all. The administration of these laws lacks uniformity as much as the laws themselves do, causing complaint and friction. The great fruit growing interests of the country suffer less and business is hampered by uncertainty. We need uniform rules of law and uniform rules of administration. These will be secured by the passage of our bill. Please do not fail to mention the number (10,999) and that we hope to have it without amendments.

San Francisco.

CHRISTMAS TRADE BREAKS ALL RECORDS.—RETAILERS OBLIGED TO LOCK THEIR DOORS TO FILL ORDERS.—NOTES OF DOINGS OF GROWERS AND OTHERS.

Another Christmas has been put behind us and a very good one at that. Orders came in so fast the day before the holiday that several of the retailers were obliged to close their doors in the afternoon to give them a chance to fill their orders. Some had signs up, "no more orders taken," others, "will not open until to-morrow morning." All agree that more business was done than the year previous and especially in greens and pot plants. Of the latter ferns in dishes and baskets easily lead. The growers who were lucky enough to have their crops in time are smiling. Of course, under existing conditions the very best of prices were realized.

T. Thompson, of Santa Cruz, has been visiting this city and says that the prospects down that way are very good. He is making a specialty of carnations and has five houses devoted to that flower, besides a miscellaneous stock. A good deal of his cut goes to Mr. Navlet, of San Jose, who was also here recently.

The Pacific Coast Horticultural Society is to give an entertainment, with dancing and refreshments, the first Saturday in January. Christmas and New Year's yards will be in order and everybody is expected to be on hand.

Sidney Clack is all smiles now, for not only have his gold mines in British Columbia turned out a success, but he had the biggest holiday cut of any grower in San Francisco and vicinity.

Charles Mitten, at present foreman for McLellan, in Burlingame, has invested in

land across the bay, where he will embark in business with his brother. They will tackle first-class roses.

Frank Mills, at present in Menlo Park, is to start in business at Palo Alto. He intends to put up two houses for carnations for the San Francisco market.

Among the latest arrivals was a fourteen-pound baby boy at Mr. Domato's at Fruitvale.

GOLDEN GATE.

St. Paul.

EVENTFUL YEAR CLOSING WITH BIG HOLIDAY BUSINESS.—CARNATIONS HELD THE LEAD IN EVERY PARTICULAR.—GOOD PRICES.—GREENS TRADE HEAVY.—LOSSES FROM FREEZING.

The year just closed was an eventful one to florists. Notwithstanding the end of the coal strike was announced several weeks since, coal becomes scarcer as the weather becomes colder, and prices are correspondingly higher. Christmas trade was very good, several reporting it much better than last season. The weather was the only drawback. Stock was fairly abundant and sold at good prices. The most noticeable shortage was in roses. The cold, dark weather kept the cut down to the minimum, while the quality was not first-class. The few that were cut retailed readily at \$3 to \$5 per dozen, Liberty and Meteor bringing the latter price. Beauties were quite scarce but sold well. This was a carnation Christmas, the divine flower being most abundant, most eagerly sought after and gave the best satisfaction to dealers and customers alike. The best fancy blooms retailed at \$2.50 per dozen, Enchantress at \$3 and good common stock at \$1.50 to \$2. Violets were of good quality and sold well, the demand

far exceeding the supply. Lily of the valley, Paper Whites and Romans sold well in assorted boxes.

There was nothing new or striking in the plant line. Azaleas, cinerarias, cyclamens and primroses constituted the main stock, with some Lorraine begonias, poinsettias, peppers and oranges thrown in to make up the full complement. There was a good trade in holly and greens of all kinds.

Losses from freezing were in some instances very heavy. Nearly all trains were behind time and many flowers shipped in were badly frozen on arrival. The express companies will have to face several damage claims which might never have been presented had they not raised rates.

Dr. Schifmann and family will leave shortly for the Philippines, to obtain another importation of orchids.

FELIX.

New London, Conn.

December 29 the gardeners and florists of this city and vicinity formed a club to be known as the Gardeners' and Florists' Club of New London County. Next week we will have a meeting for the purpose of electing officers and drafting by-laws.

Coal is a scarce article, with prices for hard coal near \$10 per ton and the soft variety not much behind. We have to take about what we can get, sometimes hard, then soft and occasionally both mixed together.

H. H.

ADRIAN, MICH.—The Detroit News, of December 25, contained an account of Elmer D. Smith's work with the chrysanthemum, illustrated with Mr. Smith's portrait and by halftones of his seedlings F. J. Taggart and Convention Hall.

Hardy Herbaceous Plants.

Japanese Iris, German Iris and Paeonias, Specialties.

Golden Glow, Eulalias, Day Lilies, Hardy Sunflowers, Dragon's Head, Cone Flowers, Boltonias, Sedums and a long list of other valuable kinds in large supply. Please write for lists of varieties and prices; they will probably surprise you.

J. T. Lovett, Little Silver, N.J.



Almost half a century of fair dealing has given our products that prominence which merit deserves. We still offer everything of the best for

ORCHARD, VINEYARD, LAWN, PARK, STREET, GARDEN & GREENHOUSE.

Correspondence solicited. Catalogue and Trade List free. 49 years, 44 greenhouses, 1000 acres.

THE STORRS & HARRISON CO.,

Painesville, Ohio.

Crimson RAMBLER.

5 to 6 feet, extra heavy plants, \$20.00 per 100.
4 to 5 feet, \$15.00 per 100.
3 to 4 feet, \$12.00 per 100.
2½ to 3 feet, \$10.00 per 100.

The Conard & Jones Co., West Grove, Pa.

Tree Seeds.

Our new descriptive CATALOGUE OF SEEDS of American Conifers, Trees, Shrubs, Palms, Cacti, Herbaceous Plants, etc., has been mailed to the trade. A postal will bring it to you.

PINEHURST NURSERIES, Pinehurst, N. C.
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For } Trees, Shrubs, Vines
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Descriptive Illustrated Catalogue Free.
THE WM. H. MOON CO.
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PANSIES The Jennings Strain.

Small plants, \$4.00 per 1000, by express. Large plants, ready to bloom, \$1.00 per 100; \$8.00 per 1000. Seed, \$1 pkt.; \$5 per oz. Cash with order.
E. B. JENNINGS, Lock Box 254, Southport, Conn.
Grower of the Finest Pansies.

New Crop Flower Seeds for Present Sowing.

BELLIS, OR DOUBLE DAISY.

VAUGHAN'S MAMMOTH MIXED. For size of flowers, these have no equal. Trade pkt., 25c; 1-16 oz., 40c.

MAMMOTH DAISY WHITE. Trade pkt., 25c; 1-16 oz., 50c.

NEW MAMMOTH DAISY PINK. This is a great improvement on "Longfellow," flowers being much larger. Trade pkt., 25c.

Trade pkt. Oz.
 "Longfellow," dark pink, 1/8 oz. 25c; 1/5 \$2.00
 "Snowball," dble. white, 1/8 oz. 40c; 1/5 2.50

BROWALLIA Speciosa Major 25
CENTAUREA Candidissima (Dusty Mill)
 (1/2), 1000 seeds 25c
Gymnocarpa 10 1.0

VAUGHAN'S INTERNATIONAL PANSIES.

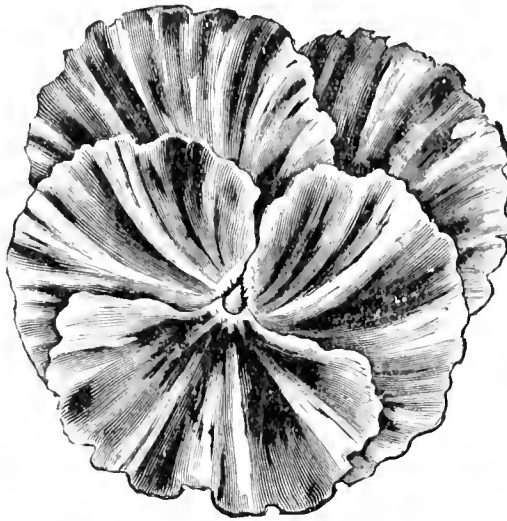
THE WORLD'S BEST. This is a combination of as many separate colors, types, blendings and unique kinds as can be found in the world. It has been made up and sold by us for twelve years; it is the best general mixture in existence and is most widely known and popular. It is used by most florists. It contains eight different strains, the crack selections of noted Pansy specialists which we purchase every year especially for this mixture and which cannot be had in any other way. We beat the world on Pansies. Price per oz., \$1.00; 1/2 oz., \$1.50; trade pkt., 50c.

VAUGHAN'S "GIANT PANSY MIXTURE." Embraces, besides all the best shades and colors, five special strains not listed elsewhere in this adv. and our International Pansy. This mixture includes the richest reds, coppers and bronzes, together with the most delicate rose and pink shadings, all the distinct colors of Trimarlean, the splendid Cassier strain with its delicate veinings. Price, 1/4 lb., \$14.00; oz., \$1.00, 1/2 oz., 60c; trade pkt., 25c.

VAUGHAN'S PREMIUM PANSIES MIXED. Embraces all the varieties of the Fancy German Sorts. Per pkt., 25c; 1/8 oz., 80c; 1/4 oz., \$3.00; oz., \$5.50.

MASTERPIECE—NEW GIANT CURLED. Pkt., 50c; 1/8 oz., \$1.00.

TEN PER CENT DISCOUNT FOR CASH WITH ORDER AMOUNTING TO TWO DOLLARS OR OVER.



TYPE OF PANSY IN OUR INTERNATIONAL MIXTURE.

LOBELIA "BEDDING QUEEN."

The habit of the plant is very dwarf and compact, forming handsome little bushes which are entirely covered with large flowers of deepest purple, contrasting most charmingly with the pure white eye. Trade pkt., 25c; 1/4 oz., 60c.

Trade Pkt. Oz.
LOBELIA, Crystal Palace Compacta \$ 15 \$1.25
 1/4 oz. 25c

Speciosa, dark flowers and foliage; for hanging baskets 10 .75
Erinus, Emperor William, dwarf, 1/4 oz. 30c; 10 1.00

MIGNONETTE, True Machel.

The seed we offer produces dwarf, vigorous plants of pyramidal growth, with very thick, stout flower stalks. Finest in every way for florists' use and for pots. We have tested this with several of the fancy named strains and always with results favorable to our seed. Pkt., 10c; 1/2 oz., 25c; oz., 50c; 2 oz., 75c; 1/4 lb., \$1.25.

STOCKS, Large-Flowering German Ten Weeks.

Pure White, Brilliant Rose, Bright Crimson, Blood Red, Purple, Light Blue, Canary Yellow.

Price each of above per 1/8 oz., 10c; oz., \$2.50; pkt., 25c.

	Trade Pkt.	Oz.
STOCKS—White Perfection, "Cut and Come Again"	1/8 oz., 15c;	\$.25 \$3.00
THUNBERGIA Mixed	10	.50
PYRETHRUM Golden Feather	1/4 oz., 15c;	10 40
SALVIA Splendens Compacta, (Clara Bedman (Boufire))	25	2.50
"Orooping Spikes," one of the best	1/4 oz., 50c;	15 2.00
VERBENA—Mammeth, Mixed	15	1.00
White.....	15	1.25
Firefly, new brilliant scarlet.....	25	
Pink and Carmine shades.....	25	
Mayflower, best pink.....	25	1.75
Candidissima, white.....	15	1.00
Defiance, brightest scarlet.....	10	1.00

"VAUGHAN'S BEST" MIXTURE OF VERBENAS. This mixture contains all that is choice and desirable in Verbenas. We feel perfectly safe in stating that this mixture of Verbenas will eclipse every other strain offered by any other house. Oz., \$2.00; 1/4 oz., 50c; trade Pkt., 25c.

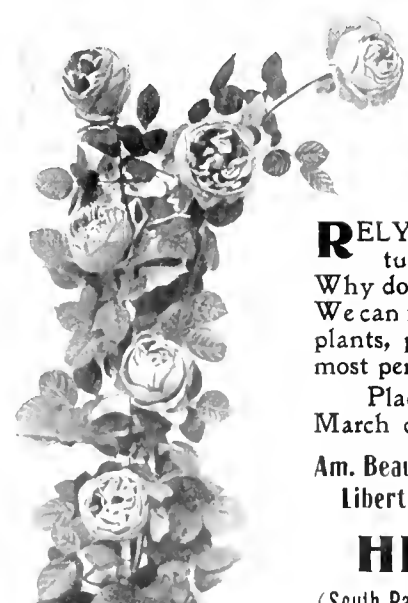
CHICAGO 84-86 Randolph St. VAUGHAN'S SEED STORE NEW YORK 14 Barclay Street.

- Fine Grafted ORANGES Bearing Sizes.** Per 100
- 12 inch, bushy, from 4-inch pots..... \$20.00
 - 15-18 inch, bushy, from 4-inch pots..... 30.00
 - Kin Kans** 10-12 in., bushy, from 4-in. pots 20.00
 - 15-18 in., bushy, from 4-in. pots 30.00
 - Lemons** 12-15 in., bushy, from 4-in. pots.. 20.00
 - 18-24 in., bushy, from 4-in. pots 30.00
 - Roses** Climbing Clothilde Soupert, strong field-grown..... 10.00
 - Crimson Rambler, stg. field-grown 7.00
 - Clematis Apifolia** A fine variety, somewhat similar to C. paniculata, but blooms earlier and lasts longer; strong plants from 3-inch pots 8.00 (Not less than 40 of a class at 100 rate.)
 - Citrus Trifoliata** (Best defensive hedge plant.) Per 1000
 - Strong, 2 year old, field-grown \$15.00
 - Strong, 3 year old, field-grown 20.00
 - Amor River Privet** (Better than California Privet.)
 - 18-24 inch, branched..... 15.00
 - 24-36 inch, branched..... 20.00
 - Not less than 100 of a class at these rates.
 - Rubbers, Kentias, Phoenix, Latanias, Pandanus, Ornamental Trees and Shrubs in large quantities.**

WRITE FOR CATALOGUE.....

P. J. BERCKMANS CO., (Inc.)
 FRUITLAND NURSERIES.
 Established 1856. AUGUSTA, GA.
 Please mention the American Florist when writing.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.



Stock Breeders

RELY on the general health and constitution of parentage for best results. Why does not the same rule apply to ROSES? We can furnish you rooted cuttings or 2 1/2-in. plants, propagated from Roses growing in most perfect state of health and vigor.

Place orders now for February and March delivery:

Am. Beauty, Brides, Bridesmaids, Gates, Ivory, Liberty, Meteor, LaFrance, Franz Deegen.

HELLER BROS.

(South Park Floral Co) New Castle, Ind.

Pansies Worth Raising.
 Strong plants, \$4.00 per 1000; \$2.50 per 500; \$1.00 per 100, f. o. b. express here. Cash with order.
CHR. SOLTAU,
 199 GRANT AVENUE, JERSEY CITY, N. J.

MURPHY'S WHITE
 CARNATION, ROOTED CUTTINGS, \$6 per 100; \$50 per 1000; \$40 per 1000 in 10,000 lots.
 CUT BLOOMS of carnations in quantity.
WM. MURPHY,
 Phone Main 4411, 130 E. 3rd St., Cincinnati, Ohio.
J. GAMMAGE & SONS, London, Eng., agents for Canada

Providence, R. I.

COMPLAINT AT CONDITIONS PREVAILING AROUND THE HOLIDAYS.—HIGH PRICES A BAR TO BRISK BUSINESS.—VARIOUS NOTES.

It would appear as though we are ever to be hampered by dull holiday weather. For the past two years the special flower seasons have been marred by inclement weather, and this Christmas was in line, with a continuous run of overcast skies. From the very first of the month things had shaped themselves for a shortage and prices advanced sharply. By December 20 it had become impossible to quote carnations for Christmas in any certain quantity, although the price asked was from \$2 to \$5 for good flowers, which was sometimes in excess of even their retail value. Roses were in regular supply at \$6 to \$12, some fancy stock bringing \$1 per dozen, wholesale. Violets were the scarcest flower of all. At retail the trade was forced to demand \$1 per dozen for good carnations, \$2 to \$3 for roses and \$2.50 to \$3 per hundred for violets. Sword ferns and flowering plants met with a fine call until the temperature dropped and put an end to the plant line. Greens were scarce and in good demand, especially ground pine wreaths, which were a decided shortage. Holly was used more than ever but the florists were not the gainers, most of it being sold by markets.

The shipments of the J. A. Budlong Company to Boston were the largest ever leaving the local market. On December 23 they taxed the capacity of a large double-teamed produce wagon. They do not cater to this city, sending direct to Boston, where the stock is again handled by their own employes and sold to the trade.

One or two florists report better business than last season, but the rank and file are not slow in expressing dissatisfaction with the volume of business. Prices were too high to encourage the sale of holiday flowers and public distrust seems stronger each year as the time of high prices approaches.

Alexander Miller suffered the loss of his wife and little boy by sudden illness. We sincerely sympathize with him at this time. M. M.

Springfield, Mass.

HOLIDAY BUSINESS A SURPRISE.—SALES EXCEEDED ALL EXPECTATIONS.

Christmas trade went beyond our expectations. Owing to the high price of coal and so forth, flowers being a luxury, we thought the florists would be left out somewhat this Christmas, but from reports sales were good and prices in most cases ruled about the same as last year. Cut flowers were sold out early, storemen not buying too heavily, fearing the demand would be light. In pot plants azaleas took the lead, there being some very fine specimens, ranging in price from \$1.50 to \$5. The varieties were Deutsche Perle, Mardner, Vervaneana and Apollo, the latter being a fine dark red. Cyclamens, ericas, poinsettias, primroses and Lorraines found ready sale. Boston ferns and rubbers were in good demand but palms moved slowly. A. B.

GLOVERSVILLE, N. Y.—R. E. Loeben has a seedling carnation named Kingsbury, which he believes will have a brilliant future. In color, vigor and size it rivals Lawson but in number of flowers he says it far outblooms that famous variety.

Chrysanthemums.

All the AMERICAN NOVELTIES. The best NEW VARIETIES from England, France and Australia.

CARNATIONS

The best of the 1903 Novelties.

Also GERANIUMS, CANNAS, VIOLETS, PELARGONIUMS, ANEMONES, and many meritorious Hardy Plants.

Preliminary List ready now. Descriptive Catalogue in January.

Nathan Smith & Son ADRIAN, MICH.

Please mention the American Florist when writing.

New Pink Carnation SUCCESS

Most prolific carnation to date. Flowers large, stiff stemmed and well formed. Grown side by side with equal number of Joost, under similar conditions, Success produced nearly 35 per cent more perfect flowers than did Joost, and blooms were much larger.

DESCRIPTIVE CIRCULAR ON APPLICATION.

Rooted Cuttings, \$1.50 per dozen; \$2.50 per 25; \$8.00 per 100; \$70.00 per 1000. Orders filled in strict rotation.

JOHN G. SHOLL, BURLINGTON, N. J. DEPT. C

FERNS

OUR SPECIALTY.

If you are in the market for ferns and want the best, give us a trial order. Owing to the steadily increasing demand for our stock we have added another large range of greenhouses to our establishment and can offer the best stock of ferns ever produced in unlimited quantities at comparatively low figures.

ASSORTED FERNS for jardiniere in fifteen of the leading varieties, good stocky plants, from 2 1/2-inch pots (sample free), at \$3.50 per 100; \$30.00 per 1000. Per 100 Per 1000

Adiantum cuneatum, 4-inch plants, \$15.00 \$140.00 5-inch plants, 25.00 235.00 500 at 1000 rate. Telephone Call 29 I.

ANDERSON & CHRISTENSEN, Short Hills, N. J.

TOMATOES FOR FORCING

Stirling Castle, Best of All, Lorillard.

MUSK MELONS, for forcing. CUCUMBERS, for forcing.

ILLUSTRATED CATALOGUE FREE.

Weeber & Don, Seed Merchants & Growers 114 Chambers St., New York

Mushroom Spawn Fresh Importation

FERTILE. PRODUCTIVE.

English in bricks, per 100 lbs., \$6.50 f. o. b. New York, \$7.00 f. o. b. Chicago. Write for prices on quantity.

Vaughan's Seed Store, CHICAGO. NEW YORK.

Giant Pansies In cool Greenhouse.

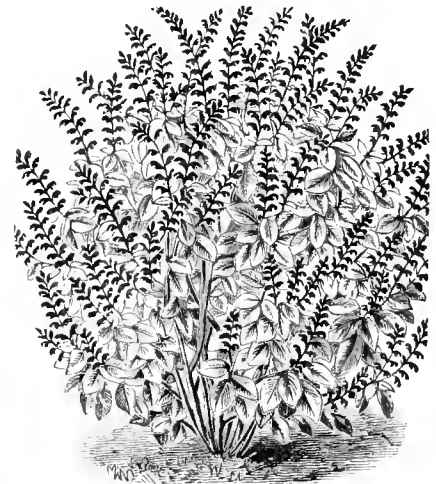
\$2.50 per Thousand. Cash.

BYER BROS., Chambersburg, Pa.

DREER'S

RELIABLE

Flower Seeds



SALVIA "BONFIRE."

Flower Seeds

WHICH SHOULD BE STARTED EARLY.

All new (1902) crop and of the finest possible quality. Our new Wholesale Price List has been issued; a complete list will be found in same. In case you did not receive a copy notify us.

	Trade Pkt.	Oz.
AGERATUM, Blue Perfection, dark	.15	.50
Cope's Pet, light	.15	.35
ALYSSUM Little Gem, very dwarf	.10	.25
Tom Thumb, compact	.10	.20
Sweet, trailing	.10	.15
ASTER Queen of the Market, white, pink, crimson or purple	.20	.60
Queen of the Market, finest mixed	.15	.50
BEGONIA semperflorens, mixed	.25	.50
BROWALLIA speciosa major	.50	
CENTAUREA candidissima	.25	1.50
gymnocarpa	.15	.35
CINERARIA maritima	.10	.20
COBAEA scandens	.10	.30
CYCLAMEN persicum giganteum in separate colors, 75c per 100 seeds; \$6.00 per 1,000 seeds.		
Finest mixed, 60c per 100 seeds; \$5.00 per 1,000 seeds.		
DAHLIA, new single, Twentieth Century, 17c per pkt.; 5 pkts., 75c; 12 pkts., \$1.75.		
DRACAENA indivisa	.10	.30
GREVILLEA robusta	.15	.40
HELIOTROPE, Lemoine's Giant	.40	2.00
IPOMOEA grandiflora (Moon flower)	.15	.50
LOBELIA Crystal Palace Compacta	.30	1.25
PETUNIA, Dreer's Superb Double Fringed the finest strain of double petunia in the whole world, 500 seeds 75c; 1,000 seeds \$1.50		
PETUNIA, Dreer's Superb Single Fringed	.50	
PYRETHRUM aureum (Golden Feather)	.10	.25
SALVIA splendens (scarlet sage)	.25	1.00
Bonfire, dwarf compact	.40	2.25
SMILAX		
per pound, \$3.50	.10	.30
SOLANUM capsicastrum (Jerusalem cherry)	.10	.30
STOCKS, large flowering 10 week, separate colors	.40	2.25
STOCKS, large flowering 10 week, finest mixed	.30	2.00
VERBENA, Dreer's Mammoth, separate colors	.30	1.50
Dreer's Mammoth, finest mixed	.25	1.00
VINCA rosea, alba and alba pura	.15	.50
mixed	.15	.40

HENRY A. DREER,

714 Chestnut St., Philadelphia, Pa.



AZALEAS.

All the best sorts, such as Bernard Andrea Alba, Deutsche Perle, Vervaeneana, Simon Mardner, Mme. Van der Cruyssen, Virginiana, Empress of India, and many others.

PRICE IN ASSORTED LOTS, FOR EARLY ORDERS:

10 to 12-inch crowns, bushy plants.....	\$40.00 per 100
12 to 14-inch crowns, bushy plants.....	50.00 per 100
14 to 16-inch crowns, bushy plants.....	60.00 per 100
16 to 18-inch crowns, bushy plants.....	\$12.00 per doz.
18 to 20-inch crowns, bushy plants.....	25.00 per doz.
20 to 22-inch crowns, bushy plants.....	30.00 per doz.
22 to 24-inch crowns, bushy plants.....	36.00 per doz.

We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

BOSTON FERNS.

Extra choice lot of compact, bushy, pot-grown plants.

2 1/4-inch pots.....	\$5.00 per 100	5-inch pans.....	\$40.00 per 100
3-inch pots.....	10.00 per 100	6-inch pans.....	9.00 per doz.
4-inch pots.....	25.00 per 100	7-inch pans.....	12.00 per doz.

VAUGHAN'S SEED STORE, 14 Barclay Street. NEW YORK.
84-86 Randolph Street. CHICAGO.
GREENHOUSES, WESTERN SPRINGS, ILL.

KENNICOTT BROS. CO.

Wholesale Florists,

40-42-44 Randolph St.

...CHICAGO.



Order Direct From Headquarters.

A No. 1 DAGGER and FANCY FERN, \$1.50 per 1000. Discount on large orders.

A No. 1 BRONZE and GREEN GALAX, \$1.00 per 1000 in 5000 lots.

LAUREL FESTOONING, good and full, 5c and 6c per yd.

SOUTHERN WILD SMILAX, selected stock, \$4.00 and \$7.00 per case.

GREEN AND SPHAGNUM MOSS, \$1.00 per bbl.

LEUCOTHOE SPRAYS, \$1.00 per 100.

We guarantee all our stock to be first-class. Orders by mail, telephone or telegraph will receive our personal and prompt attention. We can fill orders in any quantity on short notice.

HENRY M. ROBINSON & CO.
32-34-36 Court Sq., Boston, Mass.

L. D. Telephone 2618 Main.

Please mention the American Florist when writing.

Lily of the Valley From Cold Storage

\$15.00 per 1000; case of 2,500,
\$35.00; per 100, \$1.75.

FINEST CUT VALLEY always on hand in large quantities.

H. N. BRUNS,
1409-1411 W. Madison St., CHICAGO.

FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)
Write, Wire or Phone the Introducing,
Caldwell The Woodsman Co., Evergreen, Ala.
or their agents: L. J. Kreshover, New York; J. B. Deamud, Chicago; H. Bayersdorfer & Co., Philadelphia; W. F. Kasting, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.

Please mention the American Florist when writing.

WIETOR BROS.

Wholesale Growers of

Cut Flowers,

51 Wabash Avenue, CHICAGO.

WITH one of the largest ranges of glass in the world devoted exclusively to cut flowers, we produce first grade stock in such large quantities that we can fill orders at all times.

BEAUTIES, ROSES, CARNATIONS.

Our stock was never finer than at present. Beauty is our specialty, of which we grow 60,000 plants, 60,000 Brides, Maids and Meteors; including Liberty-La France and Ivory of choicest quality, 160,000 Carnation Plants on benches, all best sorts. Buy of the grower and get fresh stock at lowest market rates.

CURRENT PRICES.

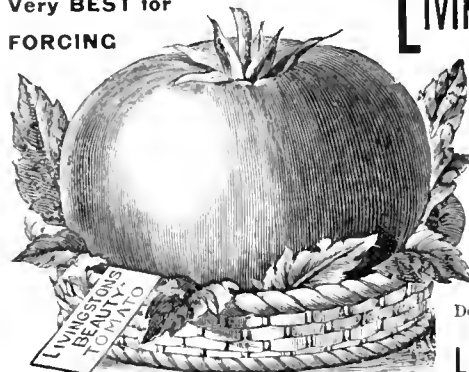
Subject to change without notice.

AMERICAN BEAUTY	Per Doz.
Extra long stem	\$8.00
30-inch stem	6.00
24-inch stem	5.00
20-inch stem	4.00
15-inch stem	2.00
12-inch stem	1.50
8-inch stem	1.00
	Per 100
Bride	\$ 6.00 to \$10.00
Bridesmaid	6.00 to 10.00
Meteor	6.00 to 10.00
Golden Gate	6.00 to 10.00
Perle	6.00 to 8.00
Ivory	8.00 to 10.00
Liberty	8.00 to 12.00
Carnations,	
extra fancy	4.00
fancy	3.00
good	2.00

All other stock at lowest market rates.

Please mention the American Florist when writing.

Very BEST for
FORCING



LIVINGSTON'S BEAUTY TOMATO.

Prof. W. J. Green, of the Ohio Experiment Station says:

"I am fully satisfied that Livingston's Beauty Tomato is the most profitable variety of all for growing under glass."

Prof. W. B. Alwood, of the Virginia Experiment Station says:

"Your Beauty Tomato was superb, and as usual, gave us magnificent fruit. We are using it now exclusively for winter forcing."

OUR OWN CHOICEST SELECTED SEED.
Pkt. 10c.; Ounce 25c.; 4 Ounces 75c.

Descriptive Catalogue, also Florists' and Market Gardeners' Wholesale List free on application.

Livingston Seed Co., Columbus, O.

Please mention the American Florist when writing.

Toronto.

HOLIDAY TRADE MAKES AN ADMIRABLE RECORD.—BEST PERIOD EVER EXPERIENCED BY LOCAL DEALERS.—GOOD STOCK AND MUCH BUSINESS.

Christmas in this city will long be remembered. There was only a few degrees of frost, which greatly facilitated the handling of stock, and business on the aggregate was about twenty per cent in advance of last year. As was expected, Beauties held the first call in cut flowers, prices were well advanced, and only about halfenough to fill orders. Meteors were next sought after. Stems and color were good, but the buds were small. The large quantity of Brides and Bridesmaids relieved the market in roses. Carnations were also very good and plentiful. Lawson, Prosperity and the fancies found ready sale at \$2 and \$3 per dozen retail, other varieties at \$1.50 per dozen and second grade at \$1. A few Harrisii brought \$5 per dozen. Violets were not as plentiful as a year ago and cleared at \$5 and \$6 per hundred at retail.

In plants azaleas of the larger sizes met with ready sale, and the market was cleared of these. Well grown cyclamens, ericas, fern pans, mixed baskets and medium-sized palms all found ready sale, but Begonia Gloire de Lorraine was not wanted, as the price seems too high for the Canadian buyers.

At Tidy's there was a very pretty window of immortelle bells. His large conservatory in the back of the store was very tastily arranged. This proves quite an advantage to him in the busy season, as it gives him plenty of space in which to handle his orders.

The Steele Briggs Company had some very well grown lilacs which met with ready sale. Orchids and violets were the principal part of Manton Brothers' cut.

At Grainger's new store he was more than satisfied with business. On Christmas morning not a rose nor a flowering plant was left in the place.

Having doubled his space W. Hill did a very large business in both plants and flowers. Violets were the scarce article with him.

Simmons had a mixed window of plants and holly wreaths tied with streamers of ribbon, lettered with Christmas greetings.

Jay & Son, with their new refrigerator and improved greenhouses in the back of the store, did a rushing business.

Thomas Plumb and W. J. Lawrence both report a decided increase.

Dunlop and the Dale Estate each sent in large cuts of good stock. H. G. D.

Washington.

CHRISTMAS BUSINESS FAIRLY SATISFACTORY —A PLANTSMAN WEDS.

Christmas trade was fairly good. The market was well stocked with green and in good demand. Plants sold very well. On cut flowers in general the demand was as good as the supply. Late Christmas eve it started to snow and in the morning we had about an inch of snow, which made an ideal Christmas. A number of the retail florists were much inconvenienced by their violets coming in about twelve hours late.

Edward Frye, one of A. Gude & Brother's plantsmen, was married December 29 to Miss E. Winona Milstead.

Willie Clark is about again after a relapse with typhoid fever.

P. G.

CARNATIONS

Well Rooted Cuttings Now Ready.

PINK.		Per 100	Per 1000	RED.		Per 100	Per 1000
Lawson.....		\$2.00	\$15.00	Estelle.....		\$4.00	\$30.00
Enchantress.....		12.00	100.00	Adonis.....		14.00	120.00
Guardian Angel.....		1.25	10.00	Harlowarden.....		12.00	100.00
Dorothy.....		1.25	10.00	Crane.....		2.00	15.00
Joost.....		1.25	10.00	America.....		1.25	10.00
Genevieve Lord.....		1.25	10.00	Palmer.....		4.00	30.00
Nelson.....		4.00	30.00	Roosevelt.....		1.25	10.00
Cressbrook.....		4.00	30.00	Mrs. L. Inc.....		1.25	10.00
Triumph.....		1.25	10.00	Chicago (Red Bradt).....		2.00	15.00
Marquis.....		1.25	10.00				
Higinbotham.....		5.00	40.00	WHITE.		Per 100	Per 1000
Morning Glory.....		2.00	15.00	Flora Hill.....		\$1.25	\$10.00
				Queen Louise.....		2.00	15.00
VARIEGATED.		Per 100	Per 1000	Peru.....		1.25	10.00
Bradt.....		\$2.00	\$15.00	White Cloud.....		1.25	10.00
Prosperity.....		2.00	15.00	Murphy's White.....		6.00	50.00
Gaiety.....		2.00	15.00	Norway.....		1.25	10.00
Armazindy.....		1.25	10.00	Bon Homme Richard.....		1.25	10.00
				Hoosier Maid.....		1.25	10.00

All stock sold under express condition that if not satisfactory it is to be returned immediately when money will be refunded.

Peter Reinberg,
51 Wabash Ave.,CHICAGO.

Rooted Carnation Cuttings

NOW READY.

Per 100		Per 1000	Per 100		Per 1000
Alba, white.....	\$4.00	\$35.00	Chicot, white.....	\$3.00	\$25.00
Golden Beauty, yellow.....	4.00	35.00	Gov. Roosevelt, maroon.....	2.50	20.00
Cressbrook, white.....	4.00	35.00	Prosperity, white—splashed pink.....	2.50	20.00
Mrs. Palmer, scarlet.....	4.00	35.00	Norway, white.....	2.00	15.00
Mrs. Higinbotham, light pink.....	4.00	35.00	Lawson, pink.....	2.00	15.00
J. H. Manley, scarlet.....	4.00	35.00	Morning Glory, shell pink.....	2.00	15.00
Viola Allen, variegated.....	4.00	35.00	Queen Louise, white.....	2.00	15.00
Gaiety, fine variegated.....	4.00	35.00	Crane, scarlet.....	1.00	10.00
Harry Fenn, crimson.....	4.00	35.00	Mermaid, salmon, fine.....	1.00	10.00
Apollo, scarlet.....	4.00	35.00	Armazindy, variegated.....	1.00	10.00
Dorothy Whitney, yellow.....	4.50	40.00	Eldorado, yellow.....	1.00	10.00
Mrs. Joost, pink.....	1.00	10.00			

UNROOTED CUTTINGS AT HALF ABOVE PRICES.

TERMS CASH. We prepay express charges. If plants are not satisfactory, on arrival, return at once and we will pay return charges and refund your money. Our cuttings are grown OUT DOORS and rooted WITHOUT HEAT and are therefore strong and hardy and free from disease. SEND US ONE DOLLAR and we will mail you SAMPLES at HUNDRED RATES. Orders booked for future delivery.

Giant Flowering Pansy Plants, mixed, \$3.00 per 1000.

Marie Louise Violets, \$3.00 per 100; \$25.00 per 1000.

ALL CHARGES PREPAID.

LOOMIS FLORAL CO., Loomis, Cal.

GLADIOLI OUR MOTTO: QUALITY FIRST.

We have, however, a sufficient quantity to supply all demands. Send for Catalogue.

ARTHUR COWEE,

“Meadowvale Farm,” Long Distance Phone 9x. Berlin, N. Y.

United States Grower and Representative of GROFF'S HYBRIDS.

FINE, COOL GROWN FERNS ONE CENT.

Peris Tremula, P. Hastata; Onychium, Gymnogramma, Lygodium, Polypodium, Adiantum, P. Sulcata, Selaginellas, Nephrolepis, etc. Transplanted singly in cool frames, good stock and liberal count. Mail orders our specialty. \$1.25 per 100, postpaid. Per 1000, \$10.00.

CLARK & LEY, THUNDERBOLT FERNERIES, SAVANNAH, GA.

Galax AND Leucothoes.

Selected, Bright and Brilliant.
Wholesale Trade Solicited.....

J. L. BANNER & CO., Montezuma, N. C.
Please mention the American Florist when writing.

GALAX LEAVES AND Leucothoe Sprays.

J. G. LOVEN, MONTEZUMA, N. C.
Please mention the American Florist when writing.

ROOTED CUTTINGS Roses AND Carnations.

Our Cuttings are all selected for strength and health. There is no finer stock grown. The roses are all from grafted stock, except the Perles and Meteors.

ROSES

KAISERINS.....	per 100	\$2.50	BRIDESMAIDS.....	per 100	\$1.50
PERLES.....	"	2.50	METEORS.....	"	1.50
BRIDES.....	"	1.50	GOLDEN GATES.....	"	1.50

CARNATIONS

White.		Per 100	Pink.		Per 100
WHITE CLOUD.....		1.50	LAWSON.....		\$ 2.00
FLORA HILL.....		1.50	MARQUIS.....		1.50
GOV. WOLCOTT.....		5.00	CRESSBROOK.....		4.00
WHITE BRADT.....		12.00	FLORIANA.....		4.00
NORWAY.....		2.00	ENCHANTRESS.....		12.00
LILLIAN POND.....		10.00			
Red.			Striped.		
CRANE.....		2.00	GAIETY.....		4.00
AMERICA.....		1.50	PROSPERITY.....		3.00
ADONIS.....		14.00			
			Maroon.		
			MACEO.....		1.50
			ROOSEVELT.....		2.00

No order for less than 50 of one variety filled at these prices. We will have a very fine stock of grafted Brides and Bridesmaids, ready April 1st, at \$10.00 per 100. All cuttings and plants shipped from Hinsdale.

BASSETT & WASHBURN,

Store, 76 Wabash Ave., CHICAGO. Greenhouses, Hinsdale, Ill.

CARNATIONS

ROOTED CUTTINGS.

ETHEL CROCKER\$10.00 per 1000
DOROTHY, NELSON, CRESSBROOK,
ENQUIRER, QUEEN LOUISE, ALBA,
LORNA, HER MAJESTY, APOLLO,
ESTELLE, ADONIS, MORNING GLORY,
GAIETY, MRS. HIGINBOTHAM,
PROSPERITY, ROOSEVELT.

Let me estimate on your orders, and please state how many of each variety will be wanted and when they are to be delivered.

ALBERT M. HERR, LANCASTER, PA.

Miss Louise Faber

The Longest Stemmed
and Most Fragrant
Carnation in Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink shade, similar to a well colored Bridesmaid rose and average 3 to 3½ INCHES. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for FEBRUARY delivery from now on.

FICK & FABER, SAN MATEO, CAL.

Carnation Cuttings

We are now booking orders for rooted cuttings. List of varieties and prices sent on application.

The Cottage Gardens, Queens, L. I.

Carnation Cuttings NOW READY.

WE can ship at once well-rooted cuttings of the following varieties, free from disease and first-class in every respect. NONE BETTER and seldom equaled.

WRITE FOR QUOTATIONS AND CATALOGUE.

Mrs. Thos. W. Lawson	Golden Beauty	Gov. Roosevelt
Gov. Wolcott	Apollo	Harry Fenn
E. A. Nelson	Morning Glory	Dorothy Whitney
Estelle	Queen Louise	Prosperity
White Cloud	Stella	Guardian Angel
Mrs. Potter Palmer	Lorna	Mrs. Higinbotham
Gaiety, Viola Allen	J. H. Manley	Dorothy
Adonis, Lillian Pond	Joost, Enquirer	Marquis, Cressbrook
President McKinley	Mrs. Theo. Roosevelt	Crane, Tiger

J. D. Thompson Carnation Co. JOLIET, ILLINOIS.

Please mention the American Florist when writing.

All The Best CARNATIONS

The Leading Novelties of 1903.
The Best Varieties of 1902.
All the Standard Varieties.
Order your Rooted Cuttings NOW.
GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

ALWAYS A WINNER.

Gov. Wolcott Carnation

3000 stock plants in perfect condition \$5.00 Per 100 \$45.00 Per 1000
BOSTON MARKET, white..... 5.00 40.00
LAWSON..... 4.00 30.00
Henry A. Stevens Co., East St., Dedham, Mass.

Lowell, Mass.

VOLUME OF CHRISTMAS TRADE ESTABLISHES A NEW HIGH WATER MARK.—BIG BUSINESS IN GREENS.—ROSES THE ONLY SHORTAGE.

Without a doubt the business done at Christmas was the heaviest ever known for a holiday. The trade was phenomenal when one considers the high prices that now prevail for the necessities of life. The fun started the week before Christmas, with anything but suitable weather, it being very cold, which necessitated extra help to wrap up plants, and then a good many were frozen. There was a tremendous supply of greens of all kinds offered this year, and most of it was not up to the mark, but nevertheless it all sold and more could have been disposed of.

The supply of cut flowers, except roses, was enough to meet the demands, and the prices that were asked were given without any kicking on the part of customers. Carnations were as popular as ever, especially the red varieties, which were quickly sold at prices that far exceeded those of last year. Fairmaid sold for \$15 per hundred. Violets were scarce and the prices realized were good. Some very fine valley was offered, but the demand was very poor.

One thing that was very noticeable was the way the storemen fixed up their establishments. Never did the stores present a prettier appearance. The stores were all well filled with both foliage and flowering plants.

We are all very sorry to hear that our friend, Clarence Additon, formerly of Lowell, but now with Mrs. Rogers, in Boston, is very ill.

E. N. Pierce, of Waverley, sent in some white chrysanthemums, but they looked out of place among so many bright flowers.

In summing up the old year, which had its ups and downs, we find it was not so bad after all.

There was good plant trade all along the line, Lorraine begonias being most popular. A. M.

TROY, N. Y.—Fire caused a damage of about \$700 in the greenhouse of J. V. Robbins on the evening of December 18.

LENOX, MASS.—The Lenox Horticultural Society has elected A. H. Wingett as its president for the coming year. Arrangements are being made to hold the annual ball on January 27.

DUBUQUE, IA.—On the morning of December 26 fire in one of W. A. Harkett's boiler rooms did some damage to the building and to the stock in two adjoining greenhouses, but the boilers were kept running as usual.

CARNATIONS

Rooted Cuttings

	Per 100	Per 1000
CRESSBROOK.....	\$5.00	\$40.00
CHALLENGER.....	5.00	40.00
FAIR MAID.....	6.00	50.00

500 at 1000 rates.

Other varieties, prices on application.

C. Warburton, FALL RIVER, MASS.

Please mention the American Florist when writing.

FARQUHAR'S COLUMBIAN PRIZE CYCLAMEN

Is the choicest strain in the United States:

FARQUHAR'S GIANT CRIMSON.

FARQUHAR'S GIANT PINK.

FARQUHAR'S GIANT WHITE.

100 seeds, \$1.25; 1000 seeds, \$10.00.

Cash with order.

R. & J. FARQUHAR & CO.
6 & 7 So. Market Street,
BOSTON.

ENCHANTRESS THE GOLD MEDAL WINNER, having defeated all comers at Madison Square Garden and at Kansas City, now reigns supreme.

Having ordered a large quantity, I am still in a position to book orders for February delivery. Don't delay if you want any.

MRS. E. A. NELSON Has proved all we claimed for it—being free and continuous and ahead of its rivals in pink.

Cuttings guaranteed to be absolutely strong and healthy. January and February delivery.

PRICE, \$6 PER 100; \$50 PER 1000.

S. S. SKIDELSKY, 708 N. 16th St., Philadelphia, Pa.

The Best White Carnation to Date **The Queen**

Reaches highest standard in size, form, calyx, stem, productiveness and keeping quality. A sure winner where ever shown. Price per 100, \$10.00; 250, \$22.50; 500, \$37.50; 1000, \$75.00.

Little South Floral Co., So. Natick, Mass. S. J. Goddard, Framingham, Mass.

LILLIAN POND A Large and Fancy White.

Unlike most fancies it is free and continuous. Starts in to bloom early, sending out large flowers on long stems. It is a strictly fancy flower at all times and commands top notch prices. Order at once and you will not regret it. PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00. Orders booked now for February delivery.

S. J. REUTER, WESTERLY, R. I.

Chicago Carnation Co.
Joliet, Illinois.

Always mention the American Florist when you order stock.

PANSIES

Roemer's Superb Prize Pansies.

STRONG, FINE STOCKY PLANTS,

Mixed colors, by mail, 75 cents per 100; \$3.00 per 1000; per 10,000, \$25.00.

Large transplanted plants, in bud and bloom, \$1.25 per 100, \$10.00 per 1000.

CASH WITH ORDER.

PETER BROWN, Lancaster, Pa.

Dreer's Summer Flowering Bulbs



TUBEROUS ROOTED BEGONIAS.—Single Flowered.

White, Crimson, Scarlet, Pink, White and Yellow, 40c per doz.; \$3 per 100; \$25 per 1000. Choicest singles in mixture, 35c per doz.; \$2.50 per 100; \$22.00 per 1000.

TUBEROUS ROOTED BEGONIAS.—Double Flowering.

Scarlet, Rose, White and Yellow, 65c per doz.; \$5 per 100; \$40 per 1000. Choicest doubles in mixture, 50c per doz.; \$4 per 100; \$35 per 1000.

NEW FRILLED TUBEROUS BEGONIAS.

A grand new variety fringed like a single Petunia, choicest mixture, 25c each; \$2.50 per doz.; \$20 per 100.

BEDDING TUBEROUS BEGONIA, DUKE ZEPPELIN.

This is the intensely bright scarlet, small double flowered that attracted so much attention at the Pan-American Exhibition. Fine strong bulbs, 20c each; \$2 per doz.; \$15 per 100.

GLOXINIA CRASSIFOLIA GRANDIFLORA.

A choice selected strain, strong, well matured bulbs, Red, White and Blue in separate colors or in choicest mixture, 50c per doz.; \$4 per 100; \$35 per 1000.

FANCY LEAVED CALADIUMS.

A choice collection of 25 varieties, \$1.25 per doz.; \$10 per 100. Choice Mixed Varieties, \$1 per doz.; \$8 per 100.

TIGRIDIAS.

Conchiflora, Grandiflora Alba, Pavonia Grandiflora, 30c per doz.; \$2 per 100; \$15 per 1000.

MONTBRETIAS.

Six choice varieties, 25c per doz.; \$1.75 per 100; \$12.50 per 1000.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

Carnation Gov. Lowndes.

Color, pure white. Size, 3 to 3½ inches in diameter. Calyx, spreading at the top, making it practically non-bursting. Form, the lower or guard petals stand out straight, retaining the full size of bloom. Petals slightly serrated, and beautifully arranged, forming a full, rounded center. Odor, is very sweet and particularly pleasing. Stem, 19 inches to 2½ feet during the season, and always strong enough to carry the large flower erect. Habit, strong and vigorous; thrives well and grows rapidly. Transplants readily and comes into bloom early, and is not a cropper. It will stand closer planting than most varieties. Productiveness, extremely free flowering. More productive than any other large white. A profitable and high grade commercial variety. Price, \$2.50 per doz.; \$12 per 100; \$100 per 1000. 50 at 100 rate; 500 at 1000 rate.

H WEBER & SONS, OAKLAND, MD.
Please mention the American Florist when writing.

Pansy Plants.

Per 100
Large-flowering ... \$2.50 per 1000. \$.50
CHINESE PRIMROSES 1.50
ASP. SPRENGERI, 2½-inch pots 2.00
GERANIUMS, 10 varieties, 2-inch pots 2.50
VIOLA VINES, variegated, 3-inch pots 4.00
CANVA BULBS, 10 varieties, dry 3.00
100 CINERARIAS, 3-inch pots 6.00
CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.
Please mention the American Florist when writing.

THE NEW FERN

Anna Foster

Unqualified success. Quick seller. Very prolific, at 2½-in. \$10; 3-in. \$21; 4-in. \$35; 5-in. \$50 per 100. Larger plants, prices on application.
KENTIA PALMS, \$50, \$75 and \$100 per 100.
RUBBERS, 5-in. pots, 18 inches high, \$4 per doz.
L. H. FOSTER, 45 King Street, Dorchester, Mass.
Please mention the American Florist when writing

GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs

\$2.00 Per Year. Sample Copies Free. Liberal terms to florists who take subscriptions.

THE GARDENING CO. MONON BUILDING, Chicago, Ill., U.S.A.

CARNATIONS.

350,000 Well Rooted Cuttings NOW READY.

	Doz.	100	1000		Doz.	100	1000
Gov. Wolcott, white.....	.60	4.00	25.00	Norway, white.....	\$.30	1.00	10.00
Alba, white.....	.60	4.00	35.00	Lorna, white.....	.30	1.00	10.00
Golden Beauty, yellow.....	.61	4.00	35.00	Gold Nugget, yellow.....	.30	2.00	15.00
Violonia, variegated, very nice	1.25	9.00	75.00	Lawson, pink.....	.30	2.00	15.00
Mrs. Palmer, scarlet.....	.60	4.00	35.00	Bon H. Richard, white.....	.30	2.00	15.00
Mrs. Higginbotham, light pink..	.60	4.00	35.00	Egypt, maroon.....	.30	1.00	10.00
J. H. Manley, scarlet.....	.60	4.00	35.00	Queen Louise, white.....	.30	2.00	15.00
Viola Allen, variegated.....	.60	4.00	35.00	Crane, scarlet.....	.15	1.00	10.00
Gaiety, fine variegated.....	.60	4.00	35.00	Genevieve Lord, light pink.....	.15	1.00	8.00
Harry Penn, crimson.....	.60	4.00	35.00	Evanston, red.....	.15	1.00	8.00
Apollo, scarlet.....	.60	4.00	35.00	Tidal Wave, pink.....	.15	1.00	10.00
Dorothy Whitney, yellow.....	.65	4.50	40.00	Portia, scarlet.....	.15	1.00	7.00
Stella, Dorner's variegated.....	.60	4.00	35.00	Mermaid, salmon, fine.....	.15	1.00	10.00
Corbett, salmon.....	.60	3.00	25.00	Wm Scott, pink.....	.15	1.00	7.00
Dorothy, pink.....	.60	1.50	10.00	Argyle, pink.....	.15	1.00	10.00
Chicot, white.....	.50	3.00	25.00	Eldorado, yellow.....	.15	1.00	7.00
Gov. Roosevelt, maroon.....	.35	2.00	15.00	Gen. Maceo, maroon.....	.15	1.00	10.00
Prosperity, white splashed pink	.35	2.50	20.00				

Write for prices on large quantities. 6 at 12 Rates; 25 at 100 Rates; 250 at 1,000 Rates.

Terms Spot Cash, prepaid to your city at above prices.

All rooted cuttings sold under express condition that if not satisfactory on arrival, return immediately, when money will be refunded.

CALIFORNIA CARNATION CO.,
Loomis, California.

Orchids!

Just arrived in perfect condition,
LAELIA ELEGANS
and Cattleya Intermida. Write for particulars.
Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

Carnations ROOTED CUTTINGS.
Cannas ALL THE LEADING VARIETIES.

Write for prices, which are right.
W. W. COLES, Kokomo, Ind.

ELECTROS...

For Catalogue Purposes.

WE have a large assortment of strictly high-class halftones of which we can supply electros suitable for catalogue illustration. If you need anything in this way, state your requirements and we will submit proofs of the illustrations in stock

Price for cash only 15 cents per square inch.

THE AMERICAN FLORIST CO.,
.....324 Dearborn St., CHICAGO.

Omaha.

TRADE GOOD.—PRICES SATISFACTORY.—
LARGE PLANT SALES.—COLD WAVE
MAKES DELIVERY DIFFICULT.—NEW
SEED STORE.—NOTES.

Christmas trade has been good, fifteen per cent better than last year. Tea roses were not up in quality and Beauties and violets were very scarce. Carnations were good and plentiful. Bulbous flowers, such as Romans, went slow at 60 cents per dozen. Prices were good. Potted plants sold better than ever, especially azaleas, of which there was a good supply. Cinerarias and cyclamens brought good prices. Holly and wreaths sold well, but the market was badly overstocked and holly could be bought at any price from the commission houses. We had splendid weather until the day before Christmas, when the temperature fell from 17° above zero to 10° below, which made it very hard to deliver plants and hurt the plant trade to some extent.

We have a new seed store located at Sixteenth and Howard streets, by the name of Hulry & Company. Mr. Hulry has been with the Nebraska Seed Company for the last four years.

Mr. Norlander, late with L. Henderson, has opened a flower store on South Sixteenth street and reports good business. He will erect three greenhouses as soon as he can get the material.

Steam coal is very hard to get and consequently the price went up.

GRIPPE.

Buffalo.

CHRISTMAS BUSINESS VERY SATISFACTORY.—
ALL STOCK WELL CLEANED UP.—NEW
STORE.

With cool, fair weather the three days preceding Christmas, trade was at least twenty-five per cent better than last year. The sale of holly, pine, laurel and other greens seemed equal to other years although opposition is greater. Roses and carnations found ready sale at fine prices. Violets were held at \$4 and \$5 per hundred, and not as good quality as in other years, but sold well. Bulbous stock sold at \$1.50 per bunch of twenty-five and was in great demand. The sale of poinsettias was also good. Window decorations of poinsettias and red bells of immortelles helped the sales wonderfully. Poinsettias in pans, primroses, azaleas and baskets trimmed with ribbons and bells, with an assortment of ferns, sold well at \$5. Palmer, Rebstock, Anderson, Zimmerman and Keitsch all say trade was good. Neubeck, Newlands, Christensen and Scott, who sell at their greenhouses, were about sold out.

There is to be a new flower store uptown, so they say, opened by New Yorkers.

BISON.

Mum Stock Plants

Robinson, Merry Xmas, Wanamaker, Monrovia, Bassett, Lincoln, Whildin, Murdock, Kalb, Bonnaffon, Childs, Halliday, Appleton, Sunderbruch, Perrio, Pacific. \$4.00 per 100.

Eaton and Chadwick, \$6.00 per 100.

JOHN BROD. 349 W. North Ave., CHICAGO.

ROSES

We have in 2x2½-inch pots the following varieties of Roses: 3,000 Maids, 2,000 Kaiserins, 9,000 Perles, 400 Golden Gates, 2,500 La France, 350 Pres. Carnots, 250 C. Soupert, 4,000 Ivory, 1,000 Woottons. Get your order in early for shipment.

WRITE GEO. A. KUHL, PEKIN, ILL.

YELLOW EATON

GOOD JUDGES pronounce it the most valuable commercial Chrysanthemum to be introduced in the spring of 1903. Its color captivates everybody and it has all the other good qualities of Timothy Eaton, without the coarseness sometimes attributed to that variety. \$5.00 per doz.; \$30 per 100. Delivery of young stock, March 1, 1903.

ROBERT CRAIG & SON, Market and 49th Streets,
PHILADELPHIA, PA.

ROOTED Rose Cuttings

	Per 100	Per 1000
BRIDESMAID.....	\$1.50	\$12.50
BRIDE.....	1.50	12.50
PERLE.....	1.50	12.50
GOLDEN GATE.....	1.50	12.50
HELEN GOULD.....	2.50	20.00
OLIVER AMES.....	2.50	20.00

George Reinberg,
51 Wabash Ave., CHICAGO.

CHRYSANTHEMUMS Large Strong Stock
Plants from Bench.
Bentley, 35c each; \$3.00 per doz. C. Holst, 25c each; \$2.00 per doz. Honesty, 25c each; \$2.00 per doz. Prosperity, 25c each; \$2.00 per doz. Providence, 25c each; \$2.00 per doz.
T. Eaton, Appleton, Maud Dean, Childs, Mrs. Chamberlain, Liberty, Chadwick, Orizaba, Lady Roberts, Golden Wedding, Golden Beauty, Bruant, \$1.50 per doz.; \$8.00 per 100.
Mrs. E. D. Smith, White Bonnaffon, R. H. Pearson, Bergmann, Willowbrook, Ivory, October Sunshine, Merry Monarch, The Queen, Mrs. J. Jones, Bonnaffon, Lucie Faure, Niveus, Eclipse, \$1.00 per doz.; \$6.00 per 100. 6 plants of one variety at doz. rate; 25 at 100 rate.

H. WEBER & SONS, OAKLAND, MD.
Please mention the American Florist when writing.

White CARNATION MARIAN

Just as good to ship as it is to keep at home. Rooted cuttings, \$5.50 per 100; \$45.00 per 1000. Delivery after Jan. 15.
Pips of DORA, any time, \$2.00 per 100. Cash with Order.

ISAAC A. PASSMORE, West Chesler, Pa.

Pansy Plants.

MME. PERRET, the finest strain on the market, large plants that will bloom soon at 50c per 100; \$3.50 per 1000; 3,000 for \$10.00.

J. C. SCHMIDT, BRISTOL, PA.

HERRON....

Carnation Grower,
OLEAN, N. Y.

Please mention the American Florist when writing.

NEW FANCY CARNATION "TIGER."

Color, orange, striped pink, effect of Sunrise rose. Size, 2½-3¼-inch, stem 2-3 feet, straight as a wire. Habit, every shoot going to flower at once, dark green foliage; no supports necessary.
Calyx, extra strong, seldom splits.
Flower, type of Mayor Pingree.

Notes, it is an early, continuous and free bloomer. Shown and won prizes at Kansas City, New York and Baltimore this fall.

Be your own judge. Sample ½ doz. for 50c prepaid. The 50c you can deduct from your first order.
12 for \$1.50; \$10.00 per 100; \$75.00 per 1000. 25 at 100 rate, 250 at 1000 rate. 10,000 ready Jan. 1st.

J. D. THOMPSON CARNATION CO., Joliet, Ill.,
Western Agents.
HENRY EICHHOLZ, Waynesboro, Pa.

GERANIUMS Rooted Cuttings

	100	1000
HETERANTHE { Big }	\$1.25	\$10.00
BUCHNER { lot }	1.25	10.00
VIAUD { now }	2.00	15.00
CASTELLANE { ready }	2.00	15.00
PERKINS	2.00	15.00
POITEVINE	2.00	15.00
LANDRY	2.00	15.00
RICCARD	2.00	15.00
S. A. NUTT	1.25	10.00

ACTEON, LA FAVORITE, LA PILOT, BONNOT AND CASTRIS, \$1.50 per 100.

ALBERT M. HERR, LANCASTER, PA.

CARNATIONS

Rooted Cuttings of the 1902 varieties less than market price during January, for want of room. All healthy plants.

PLEASE SEND FOR PRICE LIST.....

Michael Winandy, 406 Devon Ave., CHICAGO.

LOOK!

VIOLETS Campbell, rooted, \$1.00 per 100
Swanley, " 1.25 per 100
MUMS—Polly Rose and Glory of the Pacific, rooted, 1.25 per 100
S. SPLENDENS, from seed bed, 50 per 100
The above by mail, postpaid.
CANNAS—Alsace, F. Vaughan, Berat 1.50 per 100
C. Henderson 1.00 per 100
Princess of Wales Violets, 3-inch, 2.50 per 100
All good. **A. B. CAMPBELL, Cochranville, Pa.**

BEGONIA GLOIRE DE LORRAINE, Begonia Light Pink Lorraine,

For July and Later Delivery,
\$15.00 per 100; \$140.00 per 1000.
**Edwin Lonsdale, Wyndmoor, near
Chestnut Hill, Pa.**

Please mention the American Florist when writing.

Pre-Inventory Sale.

CASH WITH ORDER.

For orders reaching us prior to Jan. 15 we offer the following: Prices quoted subject to goods remaining unsold on receipt of order.

Wheat Sheaves. A each 12½¢; B each 23¢; C each 30¢; D each 40¢; doz. \$1.40; doz. \$2.25; doz. \$3.50; doz. \$1.50
 E each 50¢; F each 65¢; G each 85¢; doz. \$5.50; doz. \$7.00; doz. \$9.00

Cycas Leaves, PREPARED. 1st quality, 10 to 24 inch, per doz., \$1.25; per 100, \$10; 24 to 48 inch, per doz., \$2.25; per 100, \$15.

Cycas Leaves, PREPARED. 2nd quality, 10 to 24 inch, doz. \$1.00; per 100, \$8.00; 24 to 48 inch, doz. \$1.50; per 100, \$12.

Cycas Wreaths, PREPARED. 15 in. 75¢ ea.; 18 in. \$1.00 ea.; 20 in. \$1.25 ea.; 22 in. \$1.50 ea.; 24 in. \$1.75 ea.; 30 in. \$2.00.

Best Florists' Ribbons. Size, No. 9 12 16 22 30 40 60
 Either Satin or Taffeta. Bolt, 75¢ 95¢ \$1.10 \$1.20 \$1.50 \$1.75 \$2.00
 All colors at above prices.

Sphagnum Moss, fresh stock, per bale 50¢; 5 bales \$1.50; 10 bales \$7.50; 25 bales \$17.50.

Baby Ribbons, ALL COLORS. 5 yard spools, per spool 40¢; 5-spools \$1.75; 10 spools \$3.50.

Chiffon, IN GREEN, PINK, WHITE and LAVENDER, about 35 yards to the bolt, 4 in. per yd. 6¢, 6 in. per yd. 8¢, 13 in. per yd. 12¢.

Crape Paper, WATER PROOF. All colors, per roll, 22¢, per dozen rolls \$2.35.

Crape Paper, PLAIN. All colors, per dozen 75¢; per 100 rolls, \$5.50.

Pampas Plumes, 1st quality, large plumes, white, per 100, \$2.50; per dozen, 40¢; colored, per 100 \$5.00, per dozen, 70¢.

Cape Flowers, ALL COLORS. Per pound \$1.25; 10 pounds, \$11.00.

Other goods we have in quantity at proportionately low prices are **Birch Bark Ware, Metal Designs, Flower Vases, Jardinieres, Fern Dishes, Baskets** of all kinds, **Tin Foils, Twines, Papers, Letters** of all kinds, **Chenille, Insecticides, Fertilizers, etc.** Write us for special quotations on your wants.

We also have a quantity of **HOLLY, BOUQUET GREEN WREATHING, MISTLETOE, NEEDLE PINES** and other decorative stock to offer cheap. If in the market for any of these goods write us now.

McKellar & Winterson,

45-47-49 Wabash Ave. Tel., Main 1129. CHICAGO.

ASPARAGUS SPRENGERI.

SEEDLINGS—From flats, ready to pot, \$1.00 per 100; \$7.50 per 1000.

FIELD-CROWN—Extra strong. These plants are making new top and root growths. If potted now, will be fine for Easter. Plants large enough for 4 and 5-inch pots or pans, \$3.00 and \$5.00 per 100, respectively.

ADIANTUM CAPILLUS VENERIS—The best for fern dishes, lushy 2½-in. pot plants, \$3 per 100.

CHINESE PRIMROSES—Select strain, **Reading Scarlet**, best of its color; **Light Rose Pink**, no trace of magenta. Large plants from 3-in. pots, in bud and bloom, \$4.00 per 100.

CINERARIA STELLATA—Good for pot display or cutting; Extra strong, from 3-inch pots, \$4.00 per 100.

NATHAN SMITH & SON, Adrian, Mich.

CYCLAMEN

PERSICUM SPLENDENS GIGANTEUM.

Finest strain in the world, ready for immediate shipment, a splendid stock of plants, well budded, from 3-inch pots, \$6.00 per 100; \$50.00 per 1000; from 3½-inch pots, in bud and bloom, \$10.00 per 100; \$90.00 per 1000.

PAUL MADER, East Stroudsburg, Pa.

DRACÆNA INDIVISA.

Strong, healthy, pot-grown plants, 6-inch pots, \$30.00 per hundred.

P. R. QUINLAN & CO., SYRACUSE, N. Y.

PALMS.

HOME-GROWN, FINE, CLEAN STOCK; GROWN COOL.

Write for Price List. J. B. HEISS, The Exotic Nurseries, DAYTON, OHIO.

JOSEPH HEACOCK,

WYNCOTE, PA.

GROWER ARECA LUTESCENS, KENTIA BELMOREANA, COCOS WEDDELIANA.

CARNATIONS

20,000 Mrs. Fisher, R. C. and 2-inch.

GERANIUMS

10,000 rooted cuttings and 2½-inch.

Boston Ferns

Any size, from 2½ to 10-inch.

Asparagus

PLUMOSUS, 2½, 3 and 4-inch.
SPRENGERI, 2½, 3 and 4-inch.

Write GEO. A. KUHL, PEKIN, ILL.

ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong, 2½-inch, \$3.50 per 100.

SPRENGERI, strong, 2½-inch, \$2.50 per 100.

BOSTON FERNS.

From bench fit for 3, 4, 5, 6, 7 and 8-in., 2½c, 5c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA

Extra fine, 4 to 7-inch pots, only 12c per leaf.

25 FINE RUBBER PLANTS, 3 feet, \$1 each, or the lot for \$20.00. CASH PLEASE.

A. J. BALDWIN, NEWARK, OHIO.

Rooted Cuttings.

COLEUS, 48 var., 70¢ per 100; \$6.00 per 1000
GERANIUMS, from 2½-in. pots, \$2.50 per 100, \$22 per 1000. Good bedding sorts.

PETUNIAS, 20 var., \$1.25 per 100; \$10 per 1000
ALYSSUM, large var., single and dbl. \$1 per 100
HELIOTROPE, 14 var., \$1.00 per 100; \$8 per 1000
AGERATUMS, 5 var., 60¢ per 100; \$5.00 per 1000
SALVIA, 6 var., \$1.00 per 100; \$8.00 per 1000
Express prepaid on R. C. Cash with order.

Write S. D. BRANT, Clay Center, Kas.

ARAUCARIA EXCELSA.

SPECIMENS ONLY LEFT, at the following prices:
6-inch pots, 25, 27, 29, 30 to 35 inches high, 4, 5, 6 tiers, \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each.
KENTIA FORSTERIANA, 25 to 36 inches high, 6-in. pots, 75¢ to \$1.00 each. Cash with order please.

Godfrey Aschmann, Wholesale Grower and Importer of Pot Plants, 1012 Ontario Street, PHILADELPHIA, PA.

We inventory our stock on Feb. 1st and during January, to reduce stock on hand, we offer remarkable bargains in all supplies.

For orders reaching us prior to Jan. 15 we offer the following: Prices quoted subject to goods remaining unsold on receipt of order.

Other goods we have in quantity at proportionately low prices are Birch Bark Ware, Metal Designs, Flower Vases, Jardinieres, Fern Dishes, Baskets of all kinds, Tin Foils, Twines, Papers, Letters of all kinds, Chenille, Insecticides, Fertilizers, etc. Write us for special quotations on your wants.

A FEW GOOD THINGS YOU WANT.

ARECA LUTESCENS, 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

KENTIA Belmoreana and Forsteriana, extra clean and well grown plants, 2½, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.

REX BECONIA, 2 and 3-inch, \$4 and \$6 per 100.

BOSTON FERN, \$4, \$6, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.

ASPARAGUS Plumosus, 2-inch, \$5; 3-inch, \$8 Sprenger, 2-inch, \$3; 3-inch, \$5, per 100.

DRACAENA INDIVISA, 4, 5-in., \$10, \$25 per 100.

ENGLISH IVY, 2 and 3-inch, \$8 and \$6 per 100.

CAMPBELL VIOLETS, 3-inch, \$4.00 per 100.

VINCA VAR., 3-inch, \$4.00 per 100.

Chinese Primrose, 3-in., \$5; 4-inch, \$8 per 100

ROOTED GERANIUM CUTTINGS.

Single Gen. Grant, 75¢ per 100. Double Gen. Grant, S. A. Nutt, La Favorite, Bonnot, \$1.00 per 100. Riccard, Jaulin, Poitevine, Mrs. E. G. Hill, Frances Perkins, \$1.25 per 100. Cash or C. O. D.

GEORGE EMMANS, NEWTON, N. J.

Geraniums ROOTED CUTTINGS.

S. A. Nutt and La Favorite, \$1.10 per 100; \$10.00 per 1000. Healthy and well rooted. Will prepay express in United States for 15¢ per 100; \$1.00 per 1000.

S. A. Nutt from 2 or 2½-inch pots, \$2.00 per 100; \$18.00 per 1000.

ALL THE ABOVE READY TO SHIP. CASH WITH ORDER.

DesMoines Plant Co., 513 38th Street, Des Moines, Iowa.

FERNS.

2½-inch Mixed Ferns..... \$3.00 per 100; Cash
2½-inch Dracaena Indivisa..... 3.00 per 100 or
25 Mixed Ferns, prepaid..... 1.00 C.O.D.

WM. A. CLARK & SON 44 Boyd Street, Watertown, N. Y.

Cinerarias

from Benary & Cannell's and Sutton's prize show flowers saved, giant flowered, finest colors and shades, dwarf or semi-dwarf, makes fine selling plants for Easter; 2½ in. \$2.50 per 100. Cash. Shellroad Greenhouses, Grange P. O., Ballou, Md.

Barrie, Ont.

PLANT TRADE PROSPERS BECAUSE OF SCARCITY OF CUT STOCK.—FUNERAL WORK.—VARIOUS LOCAL NOTES.

The weather has been decidedly cold, 15° to 20° below zero, but it moderated slightly a few days before Christmas, which enabled the florists here to ship plants with less difficulty. These have had ready sale this season on account of a scarcity of cut flowers. Some very nice Begonia incarnata and cyclamens were to be had, but were soon disposed of. Some orders for cut flowers could not be filled and others were cut. A few late chrysanthemums helped to fill up a gap. Carnations and violets were more in demand than ever and good stock brought top prices.

Orders for funeral work have kept the stock of white flowers down. There always seems to be a scarcity of white flowers, as nearly every customer asks for all white.

A deer passed through the fields close to the Vairville conservatories one day last week, but it is the close season.

E. Wheatley, of Collingwood, reports trade good, the only trouble not half enough stock.

Geo. Street, of Orillia, paid us a flying visit in search of Christmas flowers.

L.

New Castle, Ind.

ROSE GROWERS HAD A MERRY CHRISTMAS.—ADDITIONS PLANNED FOR THE SPRING.—NOTES AND VISITORS.

Nearly all the rose-growing establishments here had a good Christmas business. The South Park Floral Company was in full crop and their stock was never better. The latter firm's new rose, Franz Deegen, was in good demand and brought \$6 per dozen. Reinberg & Weiland had a big cut of Beauty. Bentley & Company were in with their teas. It is rumored here that the latter firm intend increasing their glass the coming season; they already have a model plant. The South Park Floral Company also contemplates a range of house, each 60x265, for growing Beauty. They placed their hot water system on a pressure basis the past season with very good results.

Ivar Magnuson, John Pagle and Leonard Lundin spent several days in Chicago this week.

Recent visitors: E. G. Gillett, Cincinnati; John Evans, E. G. Hill, Jacob DeWeiss and Charlie Knopf, Richmond, Ind.

GRAND RAPIDS, MICH.—J. A. Creelman says this has been the best season on record.

RICHMOND, IND.—Robert Craig, of Philadelphia, and James S. Wilson, of Western Springs, Ill., have been recent visitors.

IMPATIENS ...THE QUEEN

Fine 2-in. Pot Plants, \$1.25 per doz; \$8 per 100

ASPARAGUS SPRENGERI

From 5-in. Pots, Strong, \$1.50 per doz. \$10 per 100.

BEGONIA REX

12 vars., 2-in., 60c per doz.; \$4 per 100.

ROOTED CUTTINGS Send for List...

...FINE STOCK

CENTRAL MICHIGAN NURSERY,
Kalamazoo, Mich.



BOSTON FERNS
ASPARAGUS PLUMOSUS NANUS,

5-in. pots, \$3.00 per doz.
6-in. pots, 5.00 per doz.
6-in. strong 6.00 per doz.
7-in. pots, 7.20 per doz.

4-in. pots, fine plants, \$1.50 per doz.
4-in. pots, extra select, \$2.00 per doz.

FERN BALLS furnished with leaves, \$5.00 per doz.
FERNS FOR DISHES

2-in. pots, good varieties, assorted, \$3.00 per 100.
WRITE FOR LIST.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

B. & A. SPECIALTIES
AZALEAS We have 10,000 from which to select your stock. Place orders at once.

RHODODENDRONS for forcing. Finest stock ever imported. Write for prices.

BOBBINK & ATKINS, Rutherford, N. J.

500,000 VERBENAS THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 60c per 100; \$5 per 1000; \$45 per 10,000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.

We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, BLOOMSBURG, PA.

BUCKLEY'S

Plants and Rooted Cuttings

Go Everywhere and always give Satisfaction

Geraniums The six "KINGS" for bedding: Alp. Riccard, scarlet; S. A. Nutt, crimson; E. G. Hill and Beaute Poitevine, salmon; Mme. Buchner, white; Jean Viaud, pink; strong top cuttings, well rooted—\$2.00 per 100, \$16.00 per 1000.

Petunias DOUBLE FRINGED. Ten novelties selected from Henderson's and Dreer's latest sets, strong rooted cuttings, \$1.35 per 100, \$10.00 per 1000.

Verbenas Our 20th Century Collection of 20 new mammoth varieties, labeled, strong plants from 2-in. pots—\$1.50 per 100, \$14.00 per 1000.

Marguerites Chrysanthemum Frutescens, both white and yellow, strong rooted cuttings—\$1.25 per 100, \$10.00 per 1000.

Alyssum Double Giant, strong rooted cuttings—\$1.25 per 100, \$10.00 per 1000.

Salvia The two best: St. Louis and Bonfire, strong rooted cuttings—\$1.25 per 100, \$10.00 per 1000.

Feverfew Little Gem, strong rooted cuttings, \$1.25 per 100, \$10.00 per 1000. Fine plants from 2 1/4-in., \$2.00 per 100.

Ageratum Two best: Princess Pauline, Stella Gurney, \$1.25 per 100.

Asp. Sprengeri Strong plants from 2 1/2-in. pots, \$2.00 per 100, 2-in. \$1.50 per 100.

TERMS: Cash with order or C. O. D., 1/3 in advance. SATISFACTION GUARANTEED.

The W. T. Buckley Plant Co., Springfield, Ill.
Please mention the American Florist when writing.

SPECIALTIES

ROSES, from 3-inch pots.
CARNATIONS, for all delivery,
CHRYSANTHEMUMS,
SMILAX, VIOLETS.

In Best

Varieties

Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.

Please mention the American Florist when writing.



BURBANK'S
Shasta Daisy.

Mailing size plants, \$5.00 per 100; \$40.00 per 1000. 25 at 100 rates, 250 at 1000 rates. Prepaid at above figures. Trade list now ready for 1903.

CALIFORNIA CARNATION CO.
LOOMIS, CAL.. U. S. A.

Please mention the American Florist when writing.

FINE BOSTON FERNS...

7-in. \$60.00; 6-in. \$40.00; 5-in. \$25.00; 4-in. \$15.00, and 2 1/2-in. \$4.00 per 100. All choice cool grown stock, elegant to sell or grow on.

Cheap to Close Out STOCK

CRYSTANTHEMUMS \$4.50 a 100, 75c per doz. **WHITE:** Fitzwygram, Bergmann, Queen, Robinson, Ivory, Jones, Chadwick. **YELLOW:** Whildin, Bonnaifon; Wedding, Appleton. **PINK:** Pacific, Morel, Perrin, Maud Dean. **RED:** Childs. Asparagus Plumosus, 4-in. \$15, 5-in. \$25 per 100. **W. H. GULLETT & SONS,** LINCOLN, ILL.

**TO KILL ALL
Greenhouse Bugs
USE
"NICOTICIDE"**

Clean and harmless
as Fumigant or Spray.
Ask your seedsman
for it or write to

**The Tobacco Warehousing
and Trading Co.,**

1000 Magnolia Ave., - Louisville, Ky

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Miniature Baby Greenhouse



FOR CROWING SMALL PLANTS.

Two Sizes. No. 1. 11x12 1/4 and 11 inches high.
No. 2. 15x16 1/4 and 15 1/4 inches high.
Are folded up in compact package of about one
cubic foot; weight about 18 pounds.

SMALL OR No. 1 SIZE.	LARGE OR No. 2 SIZE.
1 house..... \$ 4.50	1 house..... \$ 6.50
2 houses..... 8.50	2 houses..... 12.50
4 houses..... 16.50	4 houses..... 24.00
6 houses..... 24.00	6 houses..... 34.50

SIEBRECHT & SON, NEW ROCHELLE, N. Y.

WE NOW OFFER

"Chemicals"

for making LIQUID COMPOST.
Dry powders all soluble in water. Composts cost
less than 1/40 per gal. Correspondence invited.

**EASTERN CHEMICAL COMPANY,
620 Atlantic Ave., Boston.**

KIFT'S ADJUSTABLE VASE HOLDER

No. 1.—Braas, nickel, 4 feet long, 6 clasps to each
rod. Price complete (with green or white tum-
blers) \$2.25. Price complete (with green or white
cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod,
brassed and nickeled, with three clasps for 5 to
6-inch pots, each \$1.75.

**KIFT'S PATENT Rubber Capped FLOWER
TUBES, 1 1/2-inch diameter, per 100, \$3.50.**

JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.

**Fumigating Kind Tobacco
Powder** KILLS ALL APHIS IN ONE NIGHT
in a house 100x25 ft. at a cost of
10c. A 5 lb. trial pkg. will cost
nothing if you will pay the express charges on
it. Our booklet tells of it. Write Dept. C. For It.
The H. A. STOTHROFF COMPANY
116, 117, 118 West St., N. Y. City

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American Florist

when you write to an advertiser.

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SURE SELLERS.**

FANCY Baskets, the cream
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fine Cycas goods, Sheaves,
Cape Flowers, Immortelles,
Water-proof Pot Covers, Let-
ters and Mottoes, Jardinieres,
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The Best in the Market Always
and they sell all the year round.
Begin the New Year by
sending for our latest cata-
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Just Issued.

H. Bayersdorfer & Co.

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WESTERN FLORISTS...
can save money in buying

SUPPLIES

from **BARTELDES & CO.,**
1521 15th Street, Denver, Colo.

We are now booking orders for Christmas Deco-
rations. Get our prices at once.

Sigmund Geller
Importer and Manufacturer of
FLORISTS' SUPPLIES

Looking for Fall Novelties?
LOTS OF THEM ON EXHIBITION.
108 W. 28th Street, New York.

**Wired
Toothpicks**

10,000, \$1.50; 50,000, \$6.25. Manufactured by
W. J. COWEE, BERLIN, N. Y.
Sample Free. For sale by dealers.



Invalid Appliance Co.,
MANUFACTURERS OF
COLUMBIA PLANT TUBS
(PATENTED)
"The kind that does not fall apart."
If your seedsman doesn't handle them,
order of us direct.
FACTORY AND OFFICE:
100-102 WEDDER ST., CHICAGO.
TELEPHONE NORTH 853.

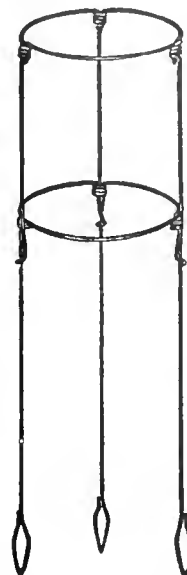
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Florists
Ads**

Always do business,
Week days and every day
Sundays and holidays,
All over the country,
At home and abroad.

NOTICE.

THE MODEL PLANT STAKE COMPANY,
formerly of Brooklyn, N. Y., has removed
to 208 Jersey St., Harrison, New Jersey,
and is now The Parker-Bruen Mfg. Co.

**The Model Extension
Carnation Support.**



Flushing, Long Island,
Dec. 11th, 1901.

MR. THERON N. PARKER,
Brooklyn, N. Y.

Dear Sir— I have used
your Wire Carnation Sup-
port the last two years, in
all about 12,000. They fill
the bill to every particular.
Nothing could be more
satisfactory and would
give me a great deal of
pleasure if I can bespeak a
good word for you to the
trade and you are at liberty
to refer to me at any
time. Very truly,
A. L. TORNE.

La Fayette, Ind.,
July 8th, 1902.

MR. THERON N. PARKER,
Harrison, N. J.

Dear Sir:— After using
your Model Carnation Sup-
port in two of our houses
the past winter, we have
come to the conclusion that
it is perfectly adapted to
supporting carnations, and
shall use them on all our
plots the coming season.

We were much pleased
with the simplicity,
strength and neat appear-
ance of the support.
Yours truly
F. DORNER & SONS CO.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.

TIN FOIL

Plain, Fancy, Printed & Mounted.

Manufactured by

The Conley Foil Co.

521 to 541 West 25th St.,
NEW YORK.

**"Fumigation
Methods"**

BY PROF. JOHNSON.

Every grower needs
this book..... Price \$1.00

AMERICAN FLORIST COMPANY,
324 Dearborn Street, CHICAGO.

A. HERRMANN,

Cape Flowers, all colors,
Cycas Leaves, Metal Designs,
and All Florists' Supplies.

Send for Prices.

404-412 East 34th St. NEW YORK.

New Bedford, Mass.

RETAIL TRADE EXCELLENT AT CHRISTMAS.
—LOCAL GROWERS SUFFER FROM THE SEVERE COLD.—A NEW SOCIETY.

All the up-to-date flower dealers are feeling good with a pocketful of money. The Christmas demand for flowers and plants was very much better than ever before. The crowd was so great in the stores on Wednesday that many could not be waited on. The stores stocked up heavily, principally from out of town, but very little was left. There was also a great trade in Christmas wreaths and greens of all kinds. Prices were high but the public did not seem to mind it.

Local growers did not all have a merry Christmas. The recent blizzard was too much for some of them. One man found the thermometer at 27° in his greenhouse and had almost everything spoiled. Several others lost more or less. In addition to many frozen plants the crop of flowers was very much shortened by the extreme cold and cloudy weather.

There is a movement on foot to start a horticultural society here. For a number of years we had a Gardeners' and Florists' Society, which was very successful for a while, but finally dwindled. A committee is now canvassing to get names for the new organization. A. B. H

Cincinnati.

STOCK FAR SHORT OF THE DEMAND.—TULIPS IN THE MARKET.—BOWLING.

Such a scarcity of good stock as we have experienced in the past two weeks has not been known in recent years. Business is very good and the demand exceeds the supply threefold. Carnations are very scarce, colored ones especially, and were it not for Murphy's White it is pretty hard to tell what we would have done to fill orders. William Murphy tells me he cut and sold 15,000 flowers for the holidays.

There is some talk of forming a florists' bowling club in this city and if the boys will only respond there is no doubt they could make some of the top-notchers from other cities hustle to hold their honors at Milwaukee next summer.

George & Allan are again first in the market with tulips. Proserpine is the variety and \$4 per hundred the price. This firm has done well on lily of the valley and Harrisii for the past two weeks.

The charity ball Monday night did not use many flowers, for wild smilax and paper poinsettias were the decorations. However, the florists made quite a few bouquets. D.

CAMDEN, N. J.—C. W. Turnley has had serious illness in his family, which has interfered with business and improvements in progress at the Haddonfield Nurseries.

100 PER CENT.

SULPHO-TOBACCO SOAP

(PATENTED)

A Wonderful Insecticide.

Removes Plant Lice. Non-injurious.

Prices low. Sales net 100% profit.

Full particulars and sample cake free, if mention this paper.

Larkin Soap Co., Buffalo, N. Y.

PROFIT

PROTECT Your Plants From Freezing in Cold Weather by getting a

LEHMAN WAGON HEATER



175,000 in use. Recommended by all florists who have them in use. Cost of heating from fuel is less than ONE-HALF CENT AN HOUR. Write for circular and price list today.

LEHMAN BROS.,
MANUFACTURERS,
10 Bond St., NEW YORK.

JAS. W. ERRINGER,
General Western Sales Agent,
297 Wabash Ave., CHICAGO.

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CYPRESS GREENHOUSE MATERIAL OF EVERY DESCRIPTION

JOHN C. MONINGER CO. 111 TO 125 BLACKHAWK ST. COR. HAWTHORNE AVE. CHICAGO.

Use our Patent
IRON BENCH
FITTINGS and
Roof Supports.

THE JENNINGS IMPROVED
IRON GUTTER.



IMPROVED VAPORIZING PANS VENTILATING
For Tobacco Extracts, Etc. Send for Circulars.
DILLER, GASKEY & CO., SUCCESSORS TO JENNINGS BROS., APPARATUS.
8. W. Cor. Sixth and Park Sts., PHILADELPHIA.

1902. 1903.
WISHING YOU THE COMPLIMENTS OF THE SEASON, WE REMAIN, Respectfully yours,

M. Rice & Co., Leading Florists' Supply House.
IMPORTERS AND MANUFACTURERS,
918 Filbert Street. PHILADELPHIA, PA.

NOVELTIES IN FLORISTS' SUPPLIES.

Franz Birnstiel,
COBURG, GERMANY.

Baskets, Puerto Rico Mats, Cycas, Waterproof Paper, Glass, China.

FOR THE WHOLESALE TRADE ONLY.

THE KINNEY PUMP.

For applying liquid manure it has no equal. Sent prepaid for \$2.00.
THE HOSE CONNECTION CO., Kingston, R. I.

MOLLER'S

Deutsche Gartner Zeitung

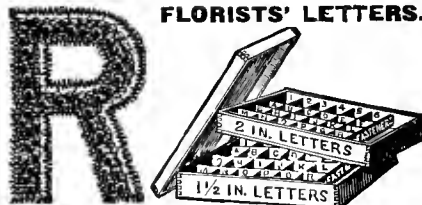
The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

Moller's Deutsche Gartner Zeitung is published weekly and richly illustrated. Subscription \$3.00 per annum, including postage. Sample copies free.

LUDWIG MOLLER, ERFURT, Germany

Boston Florist Letter Co.

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1/2 or 2-inch size, per 100, \$2.00.
Script Letters, \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager,
84 Hawley St., BOSTON, MASS.

HEADQUARTERS FOR HORTICULTURAL SUPPLIES

Of Every Description.

When you can't get what you want anywhere else, send here, we will send it to you.

"If it's used in Horticulture, we have it."

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Telephone Call, 1700 Madison Square.

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Work Every Day.

FLORISTS' Refrigerators

Embodying all of the special patented features that have made our household models the Standard of Excellence in refrigerator construction. Exteriors of

Solid Oak, Porcelain, Plate Glass.

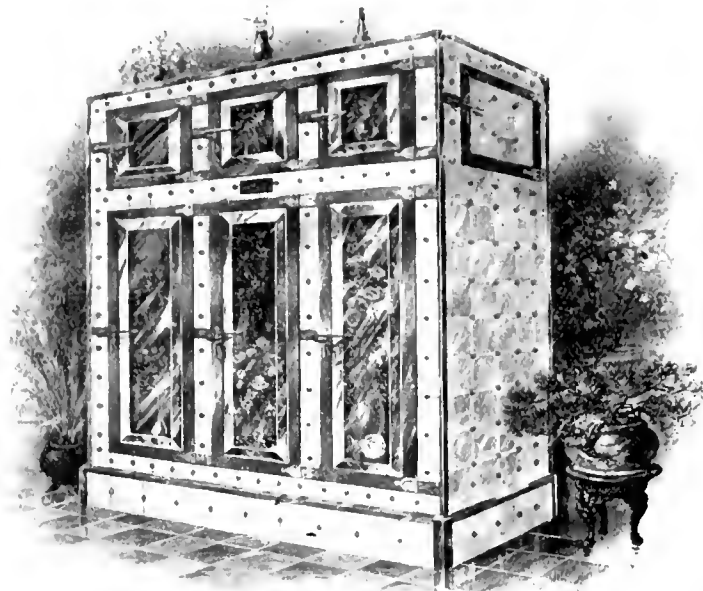
INTERIOR LININGS OF
Cypress, or One-half-inch Plate Glass, or White Glazed Tile.

They combine beauty with utility and are guaranteed to be entirely worthy and satisfactory in every particular.

Special inducements on present orders for Spring delivery.

WRITE TO-DAY FOR CATALOGUE 10.

THE WILKE MFG. CO., ANDERSON, IND.



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MANUFACTURERS OF
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In 26 months we have built for private estates 87,347 square feet of Glass Houses and have orders for still more. We are just completing a Range for Oakwood Cemetery, Syracuse, N. Y. We want your patronage. Tel. 1851 Bergen.

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This is the British Trade Paper, being read weekly by all the Horticultural traders; it is also taken by over 1000 of the best continental houses. Annual subscription to cover cost of postage 75c. Money orders payable at Lowdham, Notts.

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1500 3 " " 6.00	48 9-in., in crate, \$3.60	
1000 3 " " 5.00	48 10 " " 4.80	
800 3 1/2 " " 5.80	24 11 " " 3.60	
500 4 " " 4.50	24 12 " " 4.80	
320 5 " " 4.51	12 14 " " 4.80	
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STOCK WELL CLEANED UP AT FAIR
PRICES.—GREENS ACTIVE.

Christmas week was one of the busiest
ever known to the trade. There seemed
to be a big demand for everything in our
line, including immortelle bells and red
wreaths. Plants of all kinds sold well at
very satisfactory prices. Roses brought
\$2.50 on an average, and carnations
\$1.25 to \$1.50. Beauties and violets
were in great demand, with the supply
of good stock cut short, especially vio-
lets. The weather was quite favorable,
with the exception of a little cold. Every-
body was selling holly on the street, yet
we all had a satisfactory holly trade.
Christmas green in festooning sold well
but was very low in price. Mr. Metz-
meier had one contract for 1,500 holly
wreaths which he filled, besides making
that many more, which he disposed of.

The rose crop about Columbus is rather
short just now but prospects for the very
near future are good. CARL.

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In this historic city of the Old Dominion
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supply the Washington trade. J. Louis
Loose, whose Washington store is at
Thirteenth and F streets, N. W., has an
extensive and well equipped range of
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feature is the rose section, and Will
Arnold, the foreman, is now cutting some
excellent Beauties. There are also sev-
eral growers located here who cater to a
no inconsiderable home trade. Alexan-
dria has passed the "river town" era
and, like many of its sister cities, is put-
ting on metropolitan airs.

While there has been much dark and
rainy weather, stock has stood it well.
We all sympathize with the poor fellows
up in Massachusetts, and elsewhere, who
have had such hard knocks from Old
Boreas. Coal is scarce and high, but all
the growers seem to have enough to last
a while. A. F. F.

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CYPRESS**

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Material the Best, *o o o o*
Prices Reasonable. *o o o o*

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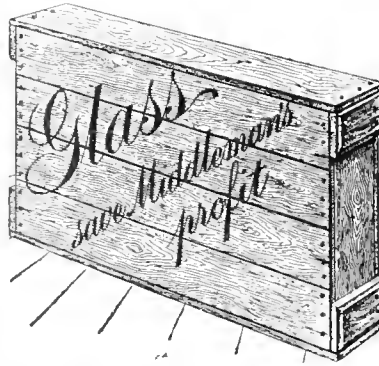
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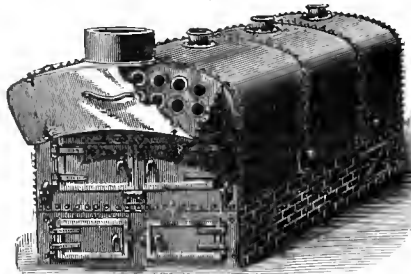
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3 ft. 3-in. x 6 ft.....4 rows 8-in. glass
4 ft. x 6 ft.....5 rows 8-in. glass

Clear Cypress 1 1/4-inch thick, without paint or glass.

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- FOUR 36x10 Horizontal Tubular.
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Write for Catalogue No. 47.
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Send for large Free Catalogue.

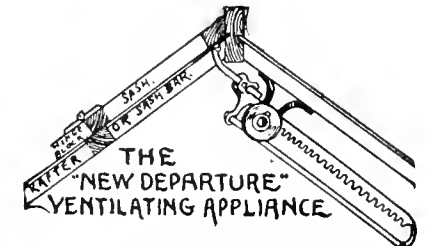
Schmid's Pet Emporium, Washington, D. C.
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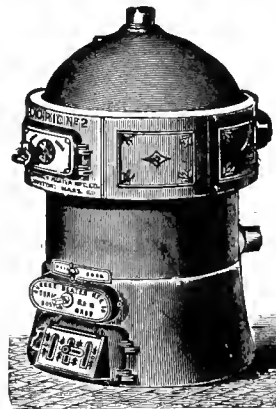


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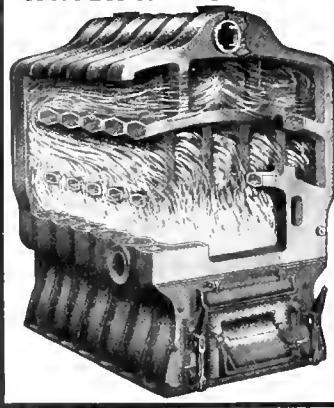


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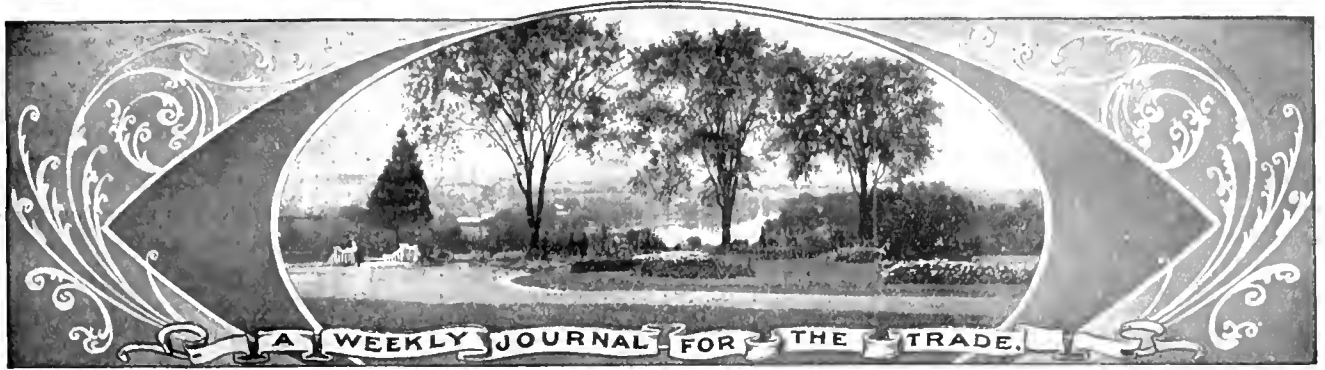
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 West Side Ave., South, Jersey City, N. J.



THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XIX.

CHICAGO AND NEW YORK, JANUARY 10, 1903.

No. 762.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Copyright 1903, by American Florist Company
Entered as Second-Class Mail Matter.

PUBLISHED EVERY SATURDAY BY

AMERICAN FLORIST COMPANY,

324 Dearborn St., Chicago.

Eastern Office: 79 Milk St., Boston.

Subscription, \$1.00 a year. To Europe, \$2.00.
Subscriptions accepted only from the trade.

Volumes half-yearly from August, 1901.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—JOHN BURTON, Philadelphia, Pa., president; J. W. C. DEAKE, Asheville, N. C., vice-president; WM. J. STEWART, 79 Milk Street, Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer.

OFFICERS-ELECT—JOHN BURTON, president; C. C. POLLWORTH, vice-president; secretary and treasurer as before. Nineteenth annual meeting at Milwaukee, Wis., August, 1903.

THE AMERICAN CARNATION SOCIETY.

Annual convention at Brooklyn, N. Y., February 19-20, 1903. ALBERT M. HERR, Lancaster, Pa., secretary.

AMERICAN ROSE SOCIETY.

Annual meeting and exhibition, Philadelphia, March 24-26, 1903. LEONARD BARRON, 136 Liberty St., New York, secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual convention subject to call of executive committee. EDWIN LONSDALE, Chestnut Hill, Pa., secretary.

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Florists' Plant Notes.

PETUNIAS.

For bedding purposes and spring sales petunias may be sown now. If small plants in 2½-inch pots are wanted to plant out, the first of March is early enough to sow them. Sow only double varieties, for over half will come single anyway. As the seed is very small, no covering with soil is needed. Do not let the sun parch the soil in the seed pans, but keep them well sprinkled and in a slightly shaded place. When sufficiently large to handle, transplant into boxes, about one inch apart; later, pot off into 2¼-inch pots and shift into 4-inch when ready. Any good soil with some leaf mould added will do.

ASTILBE JAPONICA.

Astilbe Japonica for Easter should be brought in twelve weeks before they are wanted in bloom. Give them a 6-inch or 7-inch pot, and for the first three or four weeks until they get started they may be placed under a bench at a temperature of 55°. Later increase the heat to 60°, at which temperature they will make Easter nicely. Give them plenty of room and the fullest light and, as the pots by this time will be filled with a mass of hungry roots, they will require plenty of water and feeding in the shape of liquid manure. A saucer placed under each pot kept filled with water will save much time. They must never be subjected to tobacco smoke, for it burns the young growth, and even after the foliage is matured it is easily affected. If the plants are being grown in a house where fumigation is necessary, either carry them out for the time being or syringe them thoroughly and cover with paper to keep off the smoke.

FUCHSIAS.

Fuchsias for spring sales should be shifted along as needed. Cuttings may be struck until the first of March, but after this the plants will be too small to be of any use. Add plenty of leaf mould or old hotbed manure to the soil; one-third or even one-half is not too much. Give them a temperature of 55° and sprinkle the foliage several times a day. To grow bushy, compact plants with three or four strong shoots, they may be topped once or twice. Later, as the sun gets stronger, a light shading may be applied to the glass, to give a dark, glossy color to the foliage. We have found the following to be the best standard varieties to grow for the spring trade: Phenomenal, Avalanche and Mme.

van der Strasse, for double; Speciosa, Black Prince and Earl of Beaconsfield, for single. The Little Beauty, a later introduction, we have found to be a little wonder. It has no rival for compactness and profusion of bloom.

BOUGAINVILLEAS.

Bougainvillea Sanderiana may be given more heat now if wanted for Easter. A temperature of 60° at night is warm enough, for if they are forced too hard they frequently grow blind. Keep them well syringed and give plenty of water at the root. Although this plant soon sheds its leaves in a dwelling house the long, handsome bracts hang on for several months in the greenhouse. Its chief value is for decorating purposes, for which it is extensively used. For next year's stock the cuttings may be taken at any time during January. The young growths strike readily in sand, with a mild bottom heat, but do not attempt to propagate from the hard growth made the previous fall, for it will take them all eternity to root, if they ever do. When rooted pot off into 2¼-inch pots, shifting along as needed, and when the weather permits plunge out of doors and keep them growing all summer. Many growers prefer to plant them out in the spring, but we find they do not lift well in our soil. They require a good, turfy soil with about one-third leaf mould added.

LILY OF THE VALLEY.

Lily of the valley may be forced from New Year's on. Plant them in sand five or six inches deep and place in a strong bottom heat of 75° to 80°, and keep them heavily shaded for the first twelve days, after which gradually remove the shading until, by the time the flowers are developed, they are fully inured to the light. To have a supply always on hand a certain quantity should be brought into heat every week, or twice a week. For the average retail place, where about 400 pips are forced weekly, we have found the following plan to be productive of good results:

Select the end of a side bench in the warmest house you have, where the proper bottom heat can be maintained, and nail a foot board on top of the sides of the bench, both front and back, about the length of three hotbed sash. Partition this frame into three equal parts and place a sash on each part. Plant under one sash every week, which will hold, at a distance apart of two by three inches, about 400 pips and cover with

boards or heavy burlap for the first twelve days, after which time the shading should be gradually removed and more air given. Handle each batch in the same manner and, as it takes just three weeks in a temperature of 80° to force the pips, you will have your frame full all the time with valley in different stages of growth. Be careful in watering not to wet the bells after the flowers are developed, but they should have plenty of water at the root, for water is all they have to live on.

ASTERS.

The first batch of aster seed may be sown now. Queen of the Market is the best strain to sow for early flowers. We usually make a sowing at this time of the year, and twice a month afterwards until the first of March, when the main batch is sown. For later flowers we prefer to sow different strains, Vick's Branching, Victoria and Semple's Branching. In this way we manage to have a succession of crops from early summer until nearly chrysanthemum time. For extra early flowers the small seedlings should be given 2½-inch pots and later planted out on a bench in a temperature of 50°. If you have a carnation bench that is not paying for itself, take them out and plant the bench to asters without changing the soil, but give them plenty of headroom for they will grow quite tall. Plant about 10x12 inches apart and give plenty of water and syringing. Later sowings may be transplanted into flats and then into cold frames and covered with sash, or out in the open ground as soon as the weather permits.

HYBRID ROSES.

Hybrid roses intended for Easter, which are now resting in a cool house in pots or boxes, may have the temperature gradually raised to 56° or 58° at night.

would a tea rose, excepting that no feeding is required until the buds are set, that is, if the soil, which should be of a heavy texture, has had about one-fifth well decayed cow manure and a good sprinkling of bone added in the first place. Gen. Jacqueminot, Magna Charta and Ulrich Brunner are the best varieties to force.

Crimson Rambler for Easter should be given at least twelve weeks in which to come into flower. Extremely long canes may be shortened back to three or four feet and wound around stakes to induce even breaks, but in every other particular handle this rose as you would any of the other hybrids. We have never forced the Yellow Rambler, but understand that it requires two or three weeks less time to force than the crimson variety. B.

CARNATIONS.

A REMARKABLE MONSTROSITY.

The accompanying illustration shows two views of a malformed stem from Flora Hill carnation, found by W. C. Cook, of the Central Michigan Nursery, Kalamazoo, Mich. Submitted to an eminent botanical authority, Prof. Goodale, of Harvard University, he says: "This case of twisting is the most remarkable I have ever noted and I thank you for it. So far as I am aware, the cause of this particular monstrosity is unknown."

TWO NOVELTIES.

In this issue we show vases of two of the Chicago Carnation Company's novelties, Her Majesty, white, and Marshall Field, variegated, also views in houses where these varieties are blooming during the present season. The white has large size and fine form, but it is its freedom of bloom, coupled with these attri-

"It is a bright crimson seedling, obtained from a large scarlet seedling, No. 50, crossed with Gen. Maceo. No. 50 is a short, stocky grower which we got by crossing Red Bradt with Jubilee. The foliage and stems of No. 50 are very thick and fleshy and contain so much sap that when breaking off a flower the sap will actually run out from the end of the stem. Maceo, of course, is just opposite in habit, being very wiry. We think it was this combination of growth that gave us such marvelous results in Harlowarden, and naturally the scarlet brightened up the crimson. Two years ago we had one plant of Harlowarden. Last year we had sixty; we cut enough blooms from those sixty plants to win two firsts, a certificate and a silver medal at the Chicago flower show, and a first and a silver medal at Kansas City. We were very careful not to over-propagate the variety. We allowed every flower to open on the plants and only took stem cuttings, otherwise our stock might have been double what it is to-day. Next year we shall grow 10,000 of it for cut flowers."

CARNATION PRESIDENT M'KINLEY.

The supplement with this issue of the AMERICAN FLORIST shows a vase of Carnation President McKinley, the latest novelty of the originator of Carnation Dorothy, of which it is a seedling. The name was bestowed at Kansas City in 1901, where the variety won the special premium offered for a vase of blooms of the color, pink, most favored by the then recently assassinated chief magistrate. The next year, at the same place, Carnation President McKinley took first as the best dark pink. The Grave place at Richmond, Ind., from which the variety comes, is well known for the quality of the cut flowers produced.

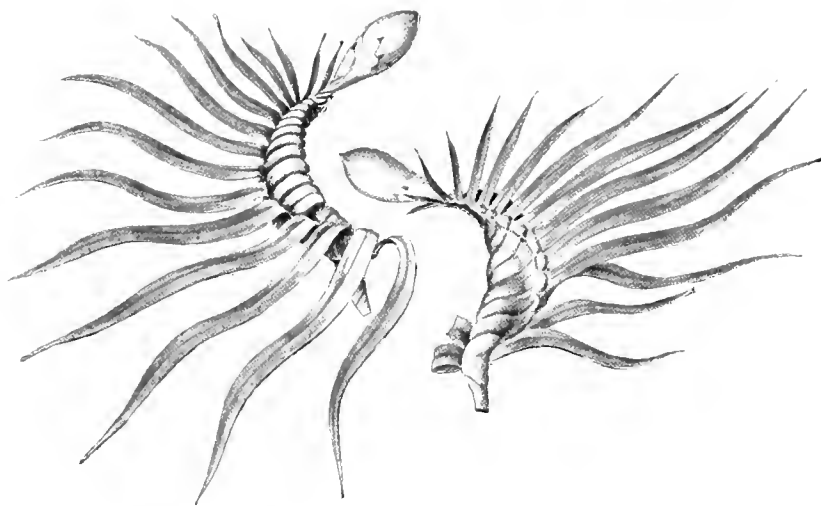
SYRINGING.

Were the carnation not subject to the attacks of red spider it would not be necessary to syringe them at all, except during hot weather, to keep down the temperature, and right after planting, to offset the check that they receive from lifting. The several fungous diseases that attack the plants and cause such widespread ruin in some sections have been the source of much discussion as to whether it would not be wise to discontinue syringing, at least during the darkest months of the year.

Some skillful growers fell in with the theory and succeeded in keeping their plants free from red spider, although not syringing at all between the last of October and the first of April. But I think it is safe to say that most of these have returned to the hard and beaten path, and again use a limited amount of water overhead.

Four or five years ago, when 48° to 50° was the standard night temperature for growing carnations, the practice of not syringing gave excellent results in some cases; but now, when 3° or 4° higher is considered right, such a policy is not to be thought of and a good syringing once a week is about the least they should receive.

In syringing carnations as a preventive of red spider it should always be the aim of the man handling the hose to do as much good as possible with the least amount of water. Indiscriminate throwing on of water will not do at all. It is not the amount of water used that does the work, but how and where it is applied. We not infrequently hear some



TWO VIEWS OF MALFORMED CARNATION STEM.

(Stem received from W. C. Cook, Kalamazoo, Mich.)

Raise the temperature 4° or 5° each week until the proper limit is reached. Cut out the small growths and prune back the stronger shoots to two or three good eyes and start them slowly into growth by frequent light syringings and gradually applying more water at the roots. Be careful, however, not to water much at this stage, for to do so will check root action. Give all the air you can without bringing on mildew, and treat them while they are growing just as you

butes, which promises to earn for it a permanent place. Carnation Marshall Field attracted much attention at the Chicago flower show as a variety which promises to displace Mrs. Bradt, if not all other variegated sorts. The flower is of the size of Bradt, with somewhat similar markings and a much better stem. Added to this it has a free-flowering habit.

Referring to Harlowarden, illustrated in our last issue, Mr. Hartshorne says:

old florist, who ought to know better, claiming that it is the dampness that kills red spiders. Nothing could be further from the truth. It is the force of the water that does the work, applied where the red spiders congregate.

Having in mind the above points, the question resolves itself simply into a mechanical operation. We know that we should not syringe except on a very bright day, use as little water as possible and apply with good force, where it is needed, and do it early in the day to give the plants a chance to dry off before night.

Thirty pounds pressure to the square inch is about right. When the pressure is very much below this it might pay to use a steam pump, for the lower the pressure the more water will be needed to do the work. Use no nozzle. The skilled waterer knows how to apply his index finger to the hose coupler to produce any kind of spray desired. What is wanted is a fan-shaped and fine cutting spray, directed straight across the bench and to those parts of the plant from within six inches of the soil up.

Never direct the spray lengthwise of the bench, for by directing it straight across all surplus water will fall into the walk beyond, while otherwise it will drench the plants and stay on them for hours. A sharp, cutting spray when properly applied, will leave the hearts of the plants comparatively dry, and whatever water does settle on the plants will be divided into very small drops that evaporate quickly. On the other hand, a sluggish spray will stop almost where it hits and follow the stem down to the base of the plant and hang there for hours in large drops that seldom dry up before night. Turn on just as much water as you can direct just where it is wanted.

We syringe the plants from one side of the bench one week and from the other side the next, so as to treat both sides alike. With the small amount of syringing that we dare to do during the dark weather, it is well to watch carefully that no out-of-the-way corners escape attention, for once red spiders get a foothold anywhere, they will spread very rapidly.

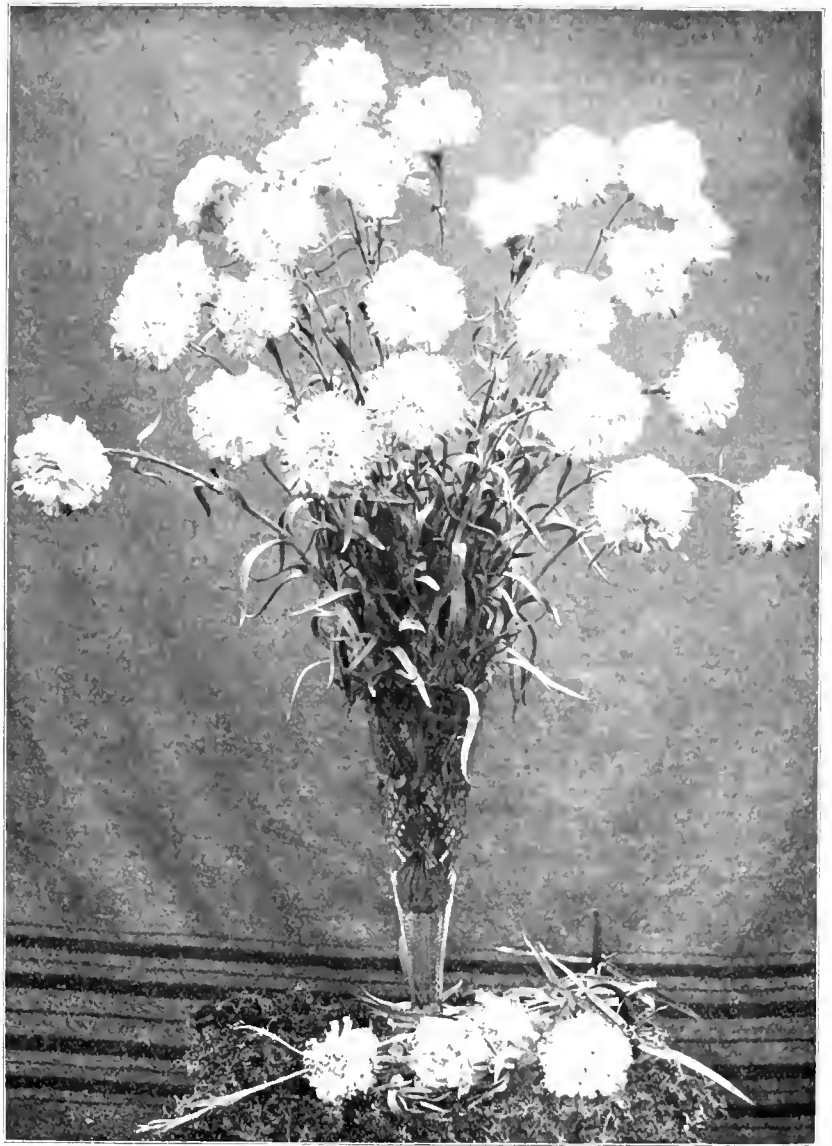
All matured flowers should be cut before syringing, as water lodged on them will destroy the brightness of their color. J.

CUTTINGS AND STEM ROT.

Now that the holidays are past, we need to turn our attention toward our stock for next season in earnest, and to give such careful attention to the health of our plants that they may produce the greatest amount of bloom possible without losing the vitality necessary to carry them in good health until June 1, at least.

If you have followed my advice regarding the late blooming sorts, they are now rooted and ready for potting or planting. I use pots exclusively and think it pays for the extra time and room. More important than pots or flats is the soil into which they are planted. This should be but moderately rich and no fresh manures added to it. Soil from a field that has been under a high state of cultivation for several years is the best, and if it needs additional fertilizer use some very old manure and no bone meal or other quick-acting fertilizer.

For potting young carnations avoid, above all other things, your rotted-sod compost pile; there is no other soil that makes the same happy home for stem rot. This has been demonstrated by our



CARNATION MARSHALL FIELD.

experiment stations and more practically in some good carnation growers' houses. There are two forms of stem rot, the one which rots the plant completely off at the top of the soil, and the one that kills the plant branch by branch. This last one is distinctly hereditary and can, to a great extent, be avoided by being very careful not to take a cutting from any plant that shows a sign of this trouble. The first one is the result of improper soil, improper watering and, principally, and above all other reasons, the use of cuttings that have a touch of cutting bench fungus on them.

I attribute my almost entire freedom from this trouble to the fact that cuttings that show any sign of fungus when taken from the cutting bench are thrown out as unfit for use and, next to this, to the fact that no sod soil of any kind is used for their growth, either as pot plants, field plants or in the houses for winter blooming. This is the fourth year for this sort of treatment and up to this winter it was more in the shape of an experiment than anything else, but I am writing now with the backing of three years' success and freedom from stem rot. Losses from this cause in my own stock run less than one plant to the

thousand, and even these few no doubt are some that slipped in from the cutting bench with fungus on them. Occasionally a novelty reaches here full of cutting bench fungus and I always figure on losing a good percentage of them from stem rot, with never a mistake in the figuring. There is one noticeable instance of this on the place this season. When the cuttings arrived last spring the remark was made, "Well, here is a case of stem rot for next winter," and fully thirty per cent of them are now gone with stem rot, while the two varieties on either side of it have not lost a single plant.

There is much said about the careful selection of cuttings from the stock plants (all of which is sound doctrine), but the selection should not stop there. When it comes to taking the cuttings from the sand a liberal throwing out of any fungus infested ones will more than repay the loss of these cuttings. If you do not handle this end of the business yourself you will need a man who has a good eye in his head and good judgment, as there is no use in throwing out cuttings that will make good plants. It is my experience that a good, healthy little cutting will make a mer plant than a great, big,

magnificent-looking one will. Careful observation on this point is well worth while for everyone, for in a few years you can be moderately sure of your success by using only such cuttings as will bring successful flowering plants, other conditions being normal. Here, again, I might add that it is not necessary to throw out rust affected cuttings unless they are very bad, for often they are the best plants by planting-in time.

It is hardly necessary to give advice as to potting or planting, as that is part of every florist's stock in trade and any careful man can do this work. The only point to particularly watch is that they do not get into the soil any deeper than they were in the sand and to have them well firmed.

There are certain varieties that should be propagated this month, those of medium growth and early blooming qualities, as it were, the middle class. The very early ones and very strong growers can better be left until February or even the first of March. All of these matters vary in different localities and growers will have to adapt them to their own particular needs.

ALBERT M. HERR.

FRUITVALE, CAL.—A. Galloway was seriously burned December 23 by an explosion of gas under one of his boilers, which are operated by petroleum. Noticing that the burner was not working properly, Mr. Galloway opened the furnace door, when the explosion enveloped him in a sheet of flame.

ROSES.

IVORY SOAP FOR RED SPIDER.

The red spider is a pernicious pest. But the skillful rose grower never worries over the pest because he knows that careful and efficient syringing will keep it in check. There are times and places, however, in most houses that the spider may be found to be more or less plentiful, especially after the holiday season, when the houses have been carried at a higher temperature than usual, producing a soft growth and also providing a congenial temperature for the spider. To keep the spider in check by syringing is one thing; to clean badly infested plants by this method is an entirely different proposition. In such cases a "dope" of some kind is useful.

Last spring I tried several remedies for red spider, including several tobacco preparations and ivory soap. All proved useless except the soap. For each experiment, several infested plants in pots, were placed in a close frame within the greenhouse and the different preparations evaporated over a spirit lamp, according to the directions given for each. Whenever greenfly were present, these dropped in showers within two minutes after the fumes began to rise, but none of the spiders was killed in any case.

After several discouraging trials with the patented preparations, a number of infested plants were thoroughly sprayed and washed with an ivory soap solution, consisting of two ounces of soap dissolved in a gallon of hot water. After five

minutes, a careful examination showed that every spider touched by the soap solution was killed. Many subsequent experiments gave similar results.

FREDERIC CRANFIELD.

CARRYING ROSES A SECOND YEAR.

ED. AM. FLORIST:—Can roses on their own roots be kept over for the second year successfully and if so what is the best method? How does the product of the first and second years compare?

L. P. L.

There is no reason why roses on their own roots, or any other roots, for that matter, cannot be carried over for the second year, and, if handled with reasonable care, the product of the second year will compare very favorably with that of the first. There are several methods of treating them. The one that seems to be most successful on the whole is to give the plants a slight rest in July by gradually withholding water from their roots for three or four weeks or until they cease to produce young, soft wood, but not enough to make them shrivel or drop their main crop of leaves. When they are sufficiently rested they are pruned back by cutting out most of the small wood and shortening the strong shoots to some extent, leaving good prominent eyes at the point to which they are cut back. Then lift them very carefully, so as to bruise or break no more of the root than necessary and replant in entirely new soil, spreading the roots out as straight as can be. Press the soil very firm after planting. Keep the tops well moistened with a syringe or by spraying two or three times daily until they have started to make new roots, which will be readily determined by the eyes commencing to push out new growth, but until this occurs be very careful not to get the body of the soil too wet, otherwise the plants instead of starting to break strong, clean, healthy shoots will be very apt to get a severe check and in some cases it will kill the plants outright. A material help to get the plants into strong, healthy growth, when treating them as above, is to keep a liberal amount of air on the house all night. This allows them to recuperate after the hot atmosphere of the house during the day. Those trying this method for the first time might well have a few extra plants potted up or heeled into the ground in the open air in case of any going back, which will as a rule show readily in about three weeks.

JOHN N. MAY.

POT GROWN ROSES FOR FORCING.

ED. AM. FLORIST:—Has any grower tried growing roses for forcing one year in pots before planting? If pruning back and transplanting is successful, why would not growing in pots prove more so?

INQUIRER.

When we first started planting roses in benches it was to avoid the great amount of labor of repotting and handling several times in the course of a season, which we found rather a heavy tax on the labor. That is when we were growing roses in pots, boxes, and so forth for blooming the season through, which method was altogether the one employed in this section thirty years ago. There is no reason why this subscriber should not grow and bloom roses successfully in pots for a year and then transfer the same plants to the beds or benches for the second season, but he will find, all items counted, that it will cost him consider-



CARNATION HER MAJESTY.



HOUSE OF CARNATION MARSHALL FIELD GROWN BY CHICAGO CARNATION CO.

ably more to grow them this way than by the ordinary bench system. The first item of pots alone will be rather a large one, as to grow and bloom them successfully they can hardly be taken from a 4-inch pot, which is about the average size for benching, and placed into an 8-inch or 9-inch pot at one shift, which is about as small a size as they can be grown on in and produce blooms of any quality for the winter. Therefore there is not only the expense of two sizes of pots, at least, but added to this must be the labor of potting them twice, which means also considerable time in handling. Then the labor of watering and so forth, will be much greater through the whole season, with, on the whole, a much shorter count of flowers produced. If these extra items of expense are of no consideration, then there is no reason why one should not grow his roses this way and, if the plants are reasonably treated while in pots, about June 10 to 20, after running them this way all through the winter and spring, water may be gradually withheld for two or three weeks, in the meantime placing them on a bed of ashes in the open ground. This will give them a slight rest. Then trim out the very weak wood and have their new quarters duly prepared for them. Then shake most of the old soil from the roots and plant them in the new soil. Attend carefully to watering, syringing and so forth, to get them to start into new growth, and for the second season the grower will have as fine a house of roses as could be desired.

JOHN N. MAY.

GRAFTING.

This method of propagating roses is rapidly gaining favor and, although it is a more expensive method than is that by cuttings, I feel confident that it pays well in the end. As a general thing grafted stock is more hardy and vigorous and better able to stand those sudden changes which are so often dangerous.

With many florists who have never undertaken this method the impression prevails that it is a difficult and costly operation. However, I do not consider it as such. With care in the process of grafting and after the plants are in the case the number of plants which fail to strike should be small.

The first thing necessary is a properly constructed case. Nail two boards to the sides of a bench and close in the ends in the same way, across these lay sash similar to hotbed sash; you then have the grafting case in its simplest form. Of course more elaborate contrivances can be made use of to greater or less advantage, but if one has the joints quite tight in the case described there is no reason at all why he should not succeed.

The temperature in the case necessary to the operation is 75° and in order to maintain this temperature close in underneath both the sides and ends of the bench, so that you will be able to hold the heat given off from the pipes. A strip of cotton cloth tacked to the bottom of the bench will answer the purpose very well.

On the bottom of the bench spread a layer of sifted ashes about one or one and one-half inches deep and wet them well. It is also a good plan to sprinkle them over lightly with air-slaked lime before each batch of plants is inserted. This will help to check fungus, which is liable to appear.

The operation of grafting is simple, yet it must be performed with care. When the Manetti stocks arrive they should be potted into as small pots as possible, usually 2½-inch or 2½-inch, and placed at once in a house where they will start slowly. By placing them underneath a bench in a carnation house I find we receive very good results. They should be kept watered, never allowing them to get dry, but neither should they be kept soggy. With this treatment they start in gradually to make roots and as soon as the eyes are seen to begin swelling they should be grafted. They will then start in with a sudden flow of sap as soon as they get the change of temperature in the case and should be able to continue in the rapid growth which is necessary to the scion already in a growing condition.

When selecting wood from your plants for grafting take only healthy and well ripened stock which shows an eye not yet started. A good plan to adopt, so that you may not be without a supply for grafting, is to leave two or three additional eyes on the plant when cutting the flowers; these can then be cut off and used when needed, and they are usually the best stock obtainable.

When grafting always use a very sharp knife, make a clean cut and do not allow the scion to become dry or shriveled. It is best to place them in a dish of water until they are used.

There are several ways of grafting, differing according to the size of the stock or scion. The following will describe the most common method: Cut the stock off about two inches above the pot, making an oblique cut about three-fourths of an inch long. Cut the scion in the same way, so that the two will match as nearly as possible. Of course it is not possible to have them always match, but all that is necessary is to have one side perfect. The sap from the Manetti flows from beneath the bark and it is this which causes it to adhere. The best article to use for binding the joint is raffia, as it does not rot easily nor is it so likely to cut into the bark when they start to grow.

Another way which works well when the stock is very large and the scion small, is the side graft. Make a cut on the side of the stock about the same



HOUSE OF CARNATION HER MAJESTY GROWN BY THE CHICAGO CARNATION CO.

length as in the former case and deep enough to go a trifle beneath the bark. You then can make a good joint with a small scion and will find they will strike as well as the former way but are more liable to break off when they are being shifted and handled.

After placing the plants in the case they should be watered thoroughly and be kept damp, holding the temperature as near to 75° as possible and avoiding all draughts. The scions should adhere in about two weeks. When you see that they are forming a callus you can begin to give a very little air each day, but be careful not to give too much; a quarter of an inch should be enough for the first few days, increasing gradually until the plants are hardened. Look the plants over carefully every morning and if any shoots from the Manetti appear they should be cut back close to the plant.

R. I.

The Prices of Plants.

ED. AM. FLORIST:—W. L. Smith states facts and only facts. "The shipping plant business is in a deplorable condition." What can we do? My answer is, grow something that pays better.

HENRY EICHHOLZ.

ED. AM. FLORIST:—I know of no remedy that has proved efficient in preventing a gradual reduction in price, which always ensues when competition in any line of business becomes keen. The proper method by which to arrive at prices at which goods should be sold is first to ascertain the exact cost of production, then to ascertain the cost of advertising and selling and collecting the money from sales; then ascertain what percentage of loss should be charged against the goods because of stock being left over unsold. To the sum made up of the above items a substantial profit should be added, not less than twenty to thirty per cent. This should form the net price below which the goods should not be sold under any circumstances, excepting at the end of the season, when they may be in danger of being left over unsold. They can then

be offered at a special reduction in order to clean out.

I have little faith in combinations composed of a large number of individuals for the purpose of advancing or maintaining prices. They are generally broken by some "smart aleck" and frequently result in much lower prices than would have ruled had no combination been formed. I believe that the only way in which an advance in price will come about is for each individual grower to cipher out how little he is getting out of his business at the present time and to make up his mind that he will get fair prices for his goods, regardless of what the other fellow does.

There are always some men in every trade who imagine that giving goods away is doing business. Such make a failure, beat their creditors and frequently move to another locality and try the same thing on again, and there are usually enough of these in existence in every trade to keep prices below the level at which they legitimately ought to stand.

C. W. WARD.

Forcing Campanula Medium Calycanthema.

This campanula is described as a valuable and beautiful pot plant suitable for forcing. A writer in *Moller's Deutsche Gartner-Zeitung* recommends that the seed be sown in April or May in order to produce strong plants susceptible of forcing. The seedlings are pricked once and then planted in a rich, mellow soil in the open. They are then potted about the middle of September and placed in a closed cold frame in order to induce a vigorous root growth. As soon as that is accomplished much air should be given, or perhaps the sash can be entirely removed until freezing weather comes. The forcing of these campanulas commences in January and the pots are for that purpose first placed in moderate heat, which should be increased from 65° to 70°. The flowers will then bloom in from ten to twelve weeks. *Campanula Medium calycanthema* grows to a height of about three feet and produces from five to eight shoots, or sometimes more, which are densely set with large double

flowers. This campanula is equally valuable for forcing and for out of doors. The most pleasing of its colors is the pink, but the white and light blue are very handsome. For indoor use they will keep six weeks if properly cared for.

The Future of the Chrysanthemum Society.

BY WILHELM MILLER, ITHACA, N. Y.

[Presented to the Chrysanthemum Society of America at the Chicago convention, November 12-13, 1902.]

It is one of the unrealized hopes of my life to attend the first annual meeting of the Chrysanthemum Society of America. I count it a great honor to have the privilege of addressing the first convention, if only by proxy. I take a very hopeful view of the future of the chrysanthemum in America, and of the society which is devoted to its interests. This exhibition and convention constitute a great step in advance. It is the fulfillment of a hope that has been in the hearts of chrysanthemum lovers for many years. The first steps in an enterprise of great magnitude are necessarily slow and painful ones. I trust that progress from this time forth will be sure and steady. The "fad" stage is past, but the chrysanthemum is sure of a permanent and important place in American life.

The biggest fact in American floriculture to-day, it seems to me, is that the love of flowers is not so generally diffused among our people as it is in the Old World, and especially in England. The chrysanthemum is essentially a people's flower, rather than a class flower, as orchids are. The hope of the future for this society lies in popularizing the chrysanthemum. In other words, the great object for the Chrysanthemum Society of America is to create and organize the amateur spirit. It is a numerous class of amateurs, skilled and unskilled, which American floriculture most needs to-day.

In order to popularize the chrysanthemum, there are two things to accomplish: First, to improve the flower itself; second, to perfect the organization of the society. As it is to-day, the chrysanthemum is too exclusively a florist's flower. By this I do not mean that the florist's interest in the chrysanthemum is a short-sighted and narrow-minded one. On the contrary, it is the florists who are the backbone of the society at present. They founded it, and have given practically all the money for its support. They have also done most of the work, and their influence has been steadily progressive. The interest of the liberal-minded florist is identical with that of the people. The greater the popular interest in flowers, the greater is the florist's return. It is possible that a day may come when certain florists will carry only one of two classes of chrysanthemums, but I venture to predict that at that day their work will be more profitable than it is now.

Let me define more clearly what I mean by adapting the flower to the people's needs. The six-inch flowers and the flowers of even greater size are only for the florists, the rich and the skilled amateurs who are willing to compete for prizes in the exhibition hall. In other words, these large flowers are for classes rather than for the masses. What we want is more of the four-inch flowers in millions of homes. The chrysanthemum greatly needs improvement along two distinct lines: First, as a hardy border plant; second, as a subject for the window-garden.

As an outdoor plant the chrysanthemum has, at present, certain limitations which are somewhat trying. The old-



HARRISH LILIES AT GEO. A. KUHL'S, PEKIN, ILL., DECEMBER 5, 1902.



Fancy Foliage and a Few Flowers.



Wreath of Gloxinias and Foliage.

FUNERAL WREATHS OF MISCELLANEOUS MATERIAL SUCH AS ANY GREENHOUSE ESTABLISHMENT AFFORDS.

fashioned Chinese pompons, which our grandmothers used to call artemisias, have little button-like flowers scarcely half an inch across. The strong point about them is their perfect hardiness, and the fact that they add color to the garden in October and November when the frost has killed every other bit of herbaceous growth. Everything ought to be done to increase the size of the flowers of hardy chrysanthemums, and to bring in as many distinct shapes as possible. There is little to hope for in the way of new colors. The ideal thing is a race of perfectly hardy chrysanthemums, having all the beautiful forms of the Japanese types, and capable of producing four-inch flowers with a minimum of cultivation, especially a minimum of disbudding.

Ever since the large-flowered Japanese varieties first came to America the effort has been made to grow them out-of-doors. The results are generally disappointing in the northern states. There is not one man in ten thousand who has such enthusiasm as Mr. J. N. Gerard, of Elizabeth, N. J., who produced magnificent six-inch flowers on bushy plants on a city lot 50x150. The fact is that most people cannot afford the expense and trouble of such a tent as Mr. Gerard used, to say nothing of greenhouse sash and temporary heating devices. So far as I know, California is the only place where the big Japanese flowers can be grown to perfection out-of-doors without any glass protection, and with a minimum of care. Perhaps this is done also in some of the southern states; but for the northern and middle states, a great problem is to increase the size and diversify the shape of the flowers while still retaining perfect hardiness. This is essentially an American problem and the plant breeder who successfully solves it should make a fortune.

In struggling after this great prize the closest attention should be paid to the problem of disbudding. So far as the general public is concerned, it is too much trouble to disbud chrysanthemums. The florist does it and, in a way, the people pay him for this work when they buy his cut flowers. Disbudding is now, and perhaps always will be, essential to the production of large flowers. But why should we not try to get varieties which require practically no disbudding? The carnation has been steadily selected with this end in view. I dare say that if any one will look closely among a hundred varieties of chrysanthemums as they are to-day, he will find a few that tend to make comparatively few buds.

The other great chance for the improvement of the chrysanthemum itself is along the line of adaptability as a subject for the home window-garden. The ideal window plant so far as ease of cultivation is concerned, is the geranium. Anybody can grow a geranium or a begonia. Few people have the patience to grow successful chrysanthemums for the home window. The ideal chrysanthemum for the home window, as it appeals to me, is a bushy plant in a six-inch pot, bearing ten flowers, most of which average four inches across. It would be better to say that two distinct ideals are desirable for the window garden. The one just defined is suitable when mass effects of color only are desired. However, there are certain varieties, such as lora, that have a very distinct form, which is best realized when the flower is five or six inches in diameter. It stands to reason that the average amateur must be content with only two or three such flowers on a single home-grown plant, unless it is grown in a larger sized pot than is commonly used. The expert amateur may do a little bet-

ter. In growing bushy plants for the home window, disbudding is again one of the most troublesome features, but perhaps the greatest limitation of the chrysanthemum to-day as a window-garden plant is that it requires a longer period of cultivation for a relatively short period of bloom than many other flowers. The important question then arises, "Shall we try to decrease the period of cultivation and lengthen the period of bloom?"

An ever-blooming race of chrysanthemums opens up boundless possibilities to the imagination. On the other hand, some florists say that the people would not care for such a class of chrysanthemums even if we could get them. They declare that the chrysanthemum is by nature a short-seasoned flower, and that its lack of fragrance is a serious handicap to it, if it is to compete with its only rivals among long season florists' flowers, namely, the rose, carnation and violet. They say, moreover, that the chrysanthemum is too firmly fixed in the minds of the people as a short-season flower, and that a fashionable demand for it out of season could never be created. Indeed, they assert that one of the very reasons that made the chrysanthemum craze possible, was the fact that the chrysanthemum came to fill a decided gap in the floral year.

In reply to these assertions of older and wiser men, I can only affirm my implicit faith in the wonderful plasticity of the chrysanthemum. Of all the species in the great family of composites, I think it has the greatest genius for variation in form and color, its only rivals in this respect being the dahlia and the China aster. So far as the nature side is concerned, I believe an ever-blooming and even a fragrant race of hardy, large-flowered chrysanthemums could be secured, offering

considerable variety of form and such variety in color as the chrysanthemum now has. Such a task, however, is perhaps the work of a century or more. On the human side of the question, there are serious doubts. It stands to reason that, even if we had the beginning of an ever-blooming race of chrysanthemums adaptable to the home window-garden, the education of the people would be a slow and expensive process.

The color range of the chrysanthemum is rather narrow compared with that of the dahlia. It is particularly lacking in bright shades of red and a true pink of a permanent nature. Blue is probably out of the question, at least such shades as the china aster and cineraria enjoy. In plant breeding in general it is usually easier to produce new colors than new forms that are desirable, but personally I am very skeptical about any great extension of the color range in the chrysanthemum. So far as I know, there is no other species to look to for purposes of hybridization with the idea of getting new colors, and I am inclined to think the color possibilities of the chrysanthemum have been developed nearly to the limit during nearly two thousand years of cultivation.

Let us now consider the future of the society which is devoted to the chrysanthemum in America. The history of special floral societies shows that there is a danger of becoming too narrow. The chrysanthemum lover may know perfectly well that the chrysanthemum is the finest flower in the world, but he ought to be careful how and where he says it is the only flower in the world. In other words, some of the special societies, both at home and abroad, which have outgrown their usefulness, have died because they were managed too exclusively by one class of persons, or else because the societies did not keep in touch with the greater forces that exist in the world. The work of the Chrysanthemum Society is not the most important work in the world. For instance, the work of civic and village improvement has a much greater scope. I do not believe that the Chrysanthemum Society of America can ever exercise any very great influence until it becomes allied with local societies all over the country. In England, the National Chrysanthemum Society is affiliated with several hundred local societies, which in this case are devoted exclusively to the chrysanthemum. In America we ought to look

at things in a large way, and the Chrysanthemum Society of America should seek alliance with civic and village improvement societies and all sorts of local clubs devoted to horticulture, floriculture and gardening in general. What we want is a practical scheme that will make it worth while for these various societies to affiliate with us so that their members will send plants to our national exhibitions and hold autumn flower shows in their own localities.

We ought to profit by the lessons of history. Have we made a sufficient study of the methods of the world's greatest society, the National Chrysanthemum Society of England? The methods by which this society has achieved world-wide success are well worthy of our careful consideration. Of course we should not copy these methods literally. The most important factor in the success of the English society, it seems to me, is that the element of continuous interest is supplied in the management of its affairs. In other words, they have a salaried official, a secretary, who doubtless performs most of the drudgery of the society, and is presumably on the lookout for enlarging the membership. Could we not in this country get a young man who is fond of floriculture and has the missionary spirit, who would be the permanent secretary of the society? I believe that the services of such a man would be essential to the success of the society, if it is to enlarge its province after the manner of the English society, namely, by holding national exhibitions in the twelve or twenty largest cities of the country.

Americans are surely not deficient in organizing ability. What we most need is the application of this organizing spirit to the peculiar problems of the Chrysanthemum Society of America. I firmly believe that a scheme could be worked out by which the society could be put on a permanent and almost self-supporting basis. By self-supporting I mean that the secretary would earn his own salary and more. Such a plan would probably include a list of patrons and fellows who should receive special privileges in return for larger contributions to the society. But the annual membership fee is one of the most important items. People do not like to give up a dollar year after year unless they have something to show for it. As it is now, some of the members of the Chrysanthemum Society are not able to attend the meetings or the exhibitions in the big cities, and they do not even have a report of the annual proceedings, nor is there any distribution of plants. The annual membership fee ought to be based upon an appeal to enlighten self-interest rather than charity. In other words, there should be something like a "value received." We ought to have a plan by which there is some substantial encouragement for local organizations to affiliate with the Chrysanthemum Society of America. We should by all means have annual reports embodying the scientific and practical papers and discussion, and the subject of free distribution of plants to members is well worthy of close study. The Ottawa Horticultural Society gives its members two dollars' value for one in the form of plants and bulbs, which it is able to do by buying plants at wholesale. This is the secret of the remarkable success of that local society. Is not something of the kind possible on a national scale?

So far the burden of the work and financial responsibility has rested upon the florists, many of whom have doubt-



THE PHILADELPHUS IS WORTHY OF MORE GENERAL USE.

less suffered great personal loss at times. The hope of the future is a great body of amateurs. Given the amateurs, the rest will take care of itself.

At the present day there is little inducement to preserve the minor types of the chrysanthemum, such as single forms, both large and small, the pompons, the three types of anemones, and certain curiosities, which we are wont to lump together in the Japanese section. We should not blame the florists for this state of affairs. It is unreasonable to ask them to preserve types for which there is at present very little demand. If we can secure a great body of amateurs, who will devote their time to the chrysanthemum, these rare and curious types will be preserved in the collections of those who can afford them.

On the whole, it seems to me that the future of the chrysanthemum and of the society devoted to it in America is full of hope. Let us rise above class distinctions and prejudices and endeavor to place both the flower and the society upon a permanent basis.

The Philadelphus.

One of the best-known shrubs, and always popular, is the philadelphus, yet there is much confusion as to the name and variety. It is commonly called syringa, which is the proper name for our lilac, but it is sometimes called mock orange and jasmine. While almost everyone is more or less familiar with the plant, I find comparatively few who are aware of there being some which grow like the one here illustrated, showing but a small section of a backyard screen eighteen feet high. If grown in more space they make a wonderful display. Of course they are too large for many places, where the varieties four to five or even six feet are better adapted, but where this large variety is adapted, nothing will answer for its substitute. This variety is either *P. Gordonianus* or *P. pubescens*, both of which grow very large. The branches are beautiful cut for decorations, but the odor, although sweet, is too strong for some people to endure indoors. C. B. W.

Carnation Society's Meeting Place.

The Germania Club house, 122 Schermerhorn street, Brooklyn, has been selected as the meeting place for the American Carnation Society, February 19-20. The club house is within five minutes walk of the exhibition hall and is well equipped as a meeting place. The customary bouquet will also be held at the club and it is possible to procure meals there at all hours, which will be a great convenience to the visitors. The arrangements are in the hands of the Brooklyn Horticultural Society, organized a year ago for this purpose. Much interest is already being manifested in the convention and exhibition and a large attendance seems assured.

WAUWATOSA, WIS.—Alex Klokner, of Milwaukee, is now making his headquarters at his new greenhouses here.

CATONSVILLE, MD.—A large greenhouse at the country place of Gen. John Gill was destroyed by fire December 31.

GALESBURG, ILL.—I. L. Pillsbury and wife left January 5 for a visit with a brother, A. N. Pillsbury, at Palma Sola, Fla. It is hoped the trip will benefit Mrs. Pillsbury's health.



HOME OF THE GERMANIA CLUB, BROOKLYN, N. Y.
(Where the American Carnation Society meets February 19-20, 1903.)

New York.

BROOKLYN SOCIETY COMPLETES PREPARATIONS FOR THE CARNATION MEETING. — PLANS WELL FORWARDED. — GOOD MEETING PLACE PROVIDED. — A LARGE ATTENDANCE ASSURED. — STATE OF THE MARKET. — STOCK MOVING WELL.

The Brooklyn Horticultural Society held a good meeting at the society's headquarters, 122 Schermerhorn street, on Monday evening, January 5. As the date for the approaching carnation meeting draws nigh the interest among the society's members increases and an enthusiastic reception is assured the visitors, as well as an exhibit of carnations of surpassing extent and interest. Thirty members were present at the meeting and preparation for the coming event was the principal business on hand although there is really little left undone now, so thoroughly has the preliminary work been done. The chairmen of the various sub-committees reported progress and letters from a number of prominent concerns gave evidence of a widespread interest in the trade exhibition, which has been put in charge of Wm. Plumb, who is a past-master in this specialty. It was announced that either Timothy Woodruff or St. Clair McKelvey would likely be secured for toast-master at

the great banquet. Several donations of cut glass, silver cups and other special premiums for the exhibition were recorded. It transpired that a goodly attendance of ladies is expected at the convention and plenty of entertainment is promised them. Secretary A. M. Herr, of the American Carnation Society, came over from Lancaster, Pa., to attend the meeting and was enthusiastically welcomed. He addressed the meeting, speaking in a hopeful strain and gave his estimate of the attendance at the convention as fully 400, the concession of one and one-third fare for the round trip having been secured from all the railroads. The next meeting will be held on January 19. The Germania Club rooms, on Schermerhorn street, where the meetings and banquet to the American Carnation Society will take place, are admirably adapted for the purpose and all the appointments are first-class. Arrangements have been perfected to comfortably seat 450 guests at the banquet. The Brooklyn Institute, on Montague street, where the exhibition will be placed, is but a short distance from the meeting hall and, being in a very swell neighborhood, it is expected that the aristocratic element in Brooklyn society will turn out strong.

Conditions in the cut flower traffic here are about normal for the season. The

usual quiet spell succeeding the holiday fever is on but the unfortunate surplus of flowers which has made so much trouble on some past occasions is not in evidence and the product received is handled with generally satisfactory results. Roses do not accumulate to an embarrassing degree and as the quality averages good no fault can reasonably be found. Carnations are, as expected, more abundant, with prices well down below the holiday figures. Violets hold their own as well as anticipated, the poorer grades being the principal stumbling block. Lily of the valley is plentiful. It is a persistent commodity just now in the hands of the curbstone dealers all along the busy section of Twenty-third street, an acknowledged had sign for the prosperity of any flower. Other bulbous material is also in excess of the demand therefor. Yellow narcissi of good quality are now being received in good supply and sell fairly well.

Chicago.

ROSE CROPS SHORTENED BY DARK WEATHER.—QUALITIES OFF AND SUPPLIES SHORT OF THE DEMAND.—A PLENTY OF CARNATIONS AND LOTS OF VIOLETS.—BIG GLASS AREA GOING UP IN THE SPRING.—ALL GROWERS PLANNING TO BUILD.—THE FERN BUSINESS.—MANY TULIPS.—NOTES.

Early in the week the dark weather made its long continuance apparent in the rose crop, for supplies shortened up decidedly and qualities, which had been vastly improved by a few days of sun, deteriorated again. The receipts of Beauty shrank to a mere fraction of the normal production and most of the buds were more or less blackened and distorted, the short and medium lengths being the worst. Bride and Bridesmaid show the effects of the weather less than Beauty, except that the cut is reduced in the same ratio. Bridesmaid continues of very fair color, considering the gloom of the past week, but the buds are rather soft. The supply of the better grade of roses is far below the requirements of the shipping trade, which has been fairly active this week. Every house in town has been unable to supply its orders for roses and prices have been pushed up very near to the Christmas list for selected stock. White carnations are wanted and have been stiff in price, but there are enough of everything else, pink rather hanging fire in many houses. E. E. Pieser says that the most plentiful item of the week's supply has been violets, but he lays this not so much to increased receipts as to an absence of demand, still the better grade of goods is well enough cleaned up so that \$2 is asked for the prime stock. The receipts of valley, Romans and Paper Whites are on the increase and Amling is getting good quantities of sweet peas. This material is selling for funeral flowers and stavia is a merchantable article because it fills in and saves stock.

It begins to look like another record-breaking year in the matter of putting up glass for cut flowers for this market. Probably the largest range will be built by Wietor Brothers, but George Reinberg will not be far behind and J. A. Budlong will add largely to his area. Benthley & Company are planning a big addition and so are Weiland & Risch, the South Park Floral Company, William Dittman, John Muno, Adam Zender, John Didier, the Beckers and a dozen others; in fact, it begins to look as though he will be a lonesome grower who is not this spring

engaged in the merry scramble to get another house ready for early planting.

The Flower Growers' Company opened its new wholesale market last Tuesday morning. They have a very large room, admirably adapted to their needs and the start was auspicious, although many of the growers who are said to be going in were not ready for the opening day and only a part of the space was occupied. Each day since the opening has seen some accession to the ranks and the general report is of satisfactory business. An entertainment is planned for Tuesday evening to familiarize the trade with the place.

As an indication of the extent of the business in ferns it is interesting to learn from C. S. Stewart, manager for Frank Garland, that they sold in the month of December ferns to the amount of \$1,127.45. This is only one house of eight or nine handling this item largely. Mr. Garland has 400,000 tulips on the way for the next few months, quite a few more than last year. He expects to begin shipping in about ten days. Last year he was in with tulips before Christmas, but says he found nothing in it.

Some of the growers are in hard lines for coal. The big growers, who made their contracts last spring, are being taken care of at reasonable prices, although few of them are getting the grade specified, but the grower who buys in small quantities is having to skirmish for his supplies. Some retail coal dealers are asking \$8 a ton for Pocahontas and \$6 for Illinois and Indiana block and say that the householders take all that can be supplied at that price.

Wietor Brothers have secured a ten-acre tract about a mile south of their greenhouses from which they will get their soil for this season; they have hauled it three times as far.

C. E. Methfessel, the Englewood retailer, is ill and in the hospital. The store is being run by his daughter.

C. M. Dickinson is about again after a ten days' stay in bed, but has not yet fully recovered.

Charles Siegk is back in town, his plans for opening a store in Joliet having miscarried.

"Mons." Olson, of J. A. Budlong's staff, has been ill this week and off duty.

J. D. Thompson is making an eastern trip.

Visitor: Thos. Roland, Nahant, Mass.

Philadelphia.

CARNATION NIGHT AT THE CLUB.—ALL THE NEW ONES ON VIEW.—NOVELTIES FROM A DISTANCE SHOW UP WELL.—MARKET A LITTLE DULL.—GOOD STOCK STILL BRINGS FAIR PRICES.—THE FIGURES.—COAL SCARCE.—VARIOUS NOTES.

The most interesting feature of the week was the carnation exhibition held in connection with the January meeting and smoker of the Florists' Club. There was a fine show of cut blooms, most of them coming quite a distance, and with few exceptions carrying very well. The collection, both in quality of flowers and as a whole, was the best the club has ever had. The J. D. Thompson Carnation Company, of Joliet, Ill., staged their light pink, Enchantress, which was easily the first and most noticeable variety in the display. Governor Wolcott was probably the best white, while M. A. Patten, a large striped variety, was fine and is said to have the good quality of being equal to Scott as a producer. Nelson Fisher was another of their exhibits and is said to be better than the Lawson. The Chicago Carnation Com-

pany, also of Joliet, Ill., sent vases of their new ones, Harlowarden, a fine scarlet, Marshall Field, a striped like Bradt, and a Daybreak pink, Mrs. Higinbotham, all of which were very fine. S. J. Rueter, Westerly, R. I., sent his white, Lillian Pond, which is a great flower. Isaac Passmore staged his large white seedling, No. 3, certainly a choice one. What a lucky man to get such a good one out of three. Dailedouze Brothers had White Bradt and their blush seedling, Fragrance. These two are great carnations, the blush seedling being an especially fine thing, a taking color, having a great fragrance, and this, with its good stem, make it a great "counter" carnation. Two mammoth seedling whites, four and four and one-half inches in diameter, attracted a deal of attention. The Little South Floral Company, of Natick, Mass., staged through Leo Niessen a commercial white called Queen. It has all the appearance of a winner in the race for favor with the public. Robt. Craig & Son's vase of Adonis attracted as much attention as ever. A vase of President McKinley, a very choice dark pink with a neat round flower full three inches in diameter, on a good stem, was striking. It is much better than America, which it somewhat resembles. This came from E. T. Grave, Richmond, Ind. Murphy's White, from Cincinnati, a medium-sized flower, had not been packed properly and did not carry well. It is said to be very prolific. W. G. Saltford sent a few of a large magenta-colored flower called Fair Harvard, a good thing in the color. Henry Eichholtz, of Waynesboro, staged a vase of his new striped variety called Tiger, a very showy sort having a large flower and good stem. There was a large attendance and all seemed much interested in the exhibits. J. D. Thompson, of Joliet, Ill., was present and spoke of carnation growing in the west. Eugene Bailedouze, of Brooklyn, also spoke, and in reply to a question said that they always pick their carnations in the morning and keep in water for twenty-four hours before shipping. The matter of the approaching exhibition of the American Rose Society was taken up and from the action of the club the members of the society should have a pleasant time while here.

There is a lull, a quiet spell has set in, and with the exception of a few large balls there is little doing. The dull and cloudy weather which has prevailed lately has kept the supply of flowers down so that there is no great surplus. Prices are receding a trifle. For special Beauties \$9 per dozen is still asked, but they move slowly and a lower figure is likely soon. Teas sell at \$15 for the specials. Liberty ranges from \$35 for the extra choice to \$15 per hundred for fifteen-inch stems. Carnations are now \$4 for the selected stock, with a few extras at \$5 to \$6; a very fair grade sells for \$3. Double violets range from \$1 to \$1.50 per hundred, singles 50 cents to \$1 and very scarce. Mignonette is \$3 to \$4, valley \$3 to \$4, calla lilies \$10 to \$12, longiflorums \$12 to \$15. No gardenias are to be had.

The coal situation is becoming alarming. Many of the growers have only one week's supply ahead, and some not even that much, and nearly all their time is taken up with hunting up a fresh supply at prices ranging anywhere from \$8 to \$10 per ton. Should severe weather interfere with the railroads' movement of cars the result will certainly prove disastrous.

I regret to announce the death of John J. Stoneham, an associate member of the Florists' Club. He was a very genial gentleman and will be much missed by the bowling contingent, of which he was an active member. His funeral took place Wednesday, January 7.

Benj. Dorrance, of Wilkesbarre, at the club meeting, said the rose society was never in a better position financially and predicted a great meeting and a fine show this spring. K.

Belated Christmas Trade Reports.

SPOKANE, WASH.—Miss Rose Wright reports that holiday trade has been good, with cut flowers in strongest demand.

BURLINGTON, VT.—C. E. Gove says there was enough Christmas stock and sales increased ten per cent. There was added call for primulas and cyclamens.

HAMILTON, O.—J. Lodder & Sons report a very poor sale on plants in bloom, with marked increase in the holiday call for carnations. Total sales were about as in 1901.

COUNCIL BLUFFS, IA.—J. F. Wilcox says he was short on all cut flowers for the holidays, because of dark weather, and, by the same token, qualities were poor. There was a good trade on Boston ferns.

HARRISBURG, PA.—G. Hanson says the holiday business was all done in two or three days but that the aggregate was about as last year, enough stock but prices were a little above those of 1901. Plant trade increased.

DOVER, N. H.—There was a decrease in all plant sales, but C. L. Howe says the total of Christmas business was twenty-five per cent greater than a year ago, due to a large increase in cut flower sales. Qualities were good, stock short and prices high.

VICTORIA, B. C.—J. T. Higgins says it rained great guns all day on December 24, but that the total of Christmas sales was about as last year. Prices were favorable, supply being much behind the demand, qualities fine, chrysanthemums being all the rage.

DANBURY, CONN.—Holiday sales were fifty per cent ahead of 1901, with better prices. Theo. H. Judd noted large demand for carnations but little call for violets. There was increased sale on potted hyacinths, azaleas and holly wreaths for cemetery use.

AUBURN, N. Y.—James Morgan says carnations are nearly a failure in the vicinity this year and stock was scarce at Christmas, but the total sales were about the same as last year, due to higher prices. There was a small increase in the sale of flowering plants.

OMAHA, NEB.—New Year's business was very heavy on all kinds of cut flowers. To give an idea, Hess & Swoboda sold 240 dozen carnations on that day at 75 cents and \$1 per dozen. January 2 there was a large funeral and one firm made \$450 worth of designs.

HARTFORD, CONN.—Holiday trade started in earlier than usual and kept up steadily to the end, which gave an opportunity for a twenty-five per cent increase in sales without higher prices on other items than carnations, cut flowers were short of the demand, except bulbous stock. John Coombs found an increase in the sale of both flowering and decorative plants.

VANCOUVER, B. C.—James Pont reports Christmas trade about as usual in its main features but sales increased twenty per cent. Chrysanthemums were in great favor and there was larger call than ever for flowering plants. Customers all chose *Asparagus plumosus* for green.

BURLINGTON, IA.—Joseph Bock says the retail prices were the best on record at Christmas and sales increased twenty-five per cent, with enough roses and carnations but few violets. The call was all for high grade, fresh flowers. There was an especially good sale for ferns.

WILMINGTON, DEL.—Christmas trade was fairly good here with the retailers and the wholesale carnation growers had plenty of bloom, but the prices in Philadelphia were all the way from good to bad, there being a great many salted flowers dumped on the market at the last minute.

TOLEDO, O.—Geo. A. Heil says that the holiday business was ten per cent ahead of last year, with plenty of everything except violets, which, with carnations, were most in demand. There was considerable increase in the sale of plants, poinsettias, azaleas and cyclamens being most called for.

ANDERSON, IND.—Stuart & Haugh say the holiday trade was about ten per cent ahead of last year, with a marked increase in the call for carnations and violets, the latter being the short item. There was a decrease in the sale for flowering plants but about the usual demand for palms and ferns.

ROCHESTER, N. Y.—There was a marked increase in the holiday sales on plants in flower but J. B. Keller Sons say the total business was about as usual. Enough roses and carnations, violets very much under the demand; no sale for bulbous stock except Romans in pans. Poinsettias in pans sold better than ever.

WICHITA, KAN.—Christmas business was from ten to twenty per cent ahead of last year, considerable stock being shipped in to meet demands. Carnations were most wanted and the sale of plants in flower showed an increase. W. H. Culp & Company say they sold holly by weight and found it a very satisfactory way to handle it.

NORWICH, CONN.—Christmas business was fifty per cent ahead of 1901, with supplies short except bulbous stock. Jos. F. Smith says that the trade would not stand the prices for good stock made necessary by wholesale prices in Boston and New York of 20 cents to 25 cents on roses. There was a big increase in the sale of plants in bloom.

TERRE HAUTE, IND.—The Christmas trade this year was a decided increase. Roses and carnations cleaned up well. Bulbous stock, azaleas and so forth sold well. Holly and green sold about the same as former years, with holly exceptionally good. All the florists report an exceptionally good year all through, according to the M. H. Hunt Floral Company.

NEWARK, N. J.—Kimmerle & Minder report a very satisfactory plant and cut flower trade for Christmas. Poinsettias in pans, cyclamens and Lorraine begonias in flowering plants, ardisias in berried plants and *Pandanus Veitchii* in ornamental foliage plants were the best sellers. Orange trees, azaleas and heaths showed a slight disposition to lag. Baskets filled with assorted foliage

plants of a hardy nature were in good demand. Roman hyacinths and Paper White narcissi were, as elsewhere, slow to move.

NEW ORLEANS, LA.—U. J. Virgin found the holiday business about as last year but retail prices on cut flowers were twenty-five per cent higher. Qualities were good and roses and carnations equal to the demand. Plant sales were ahead of the record of any year and the call for flowering subjects was above the supply. There was a big increase in the sale on holly and wreaths.

NEWS NOTES.

WEST HOBOKEN, N. J.—Ernst Asmus is making a western trip.

HARTFORD, CONN.—James Smith is recovering from a severe illness.

TACOMA, WASH.—A. A. Hinz had roses in bloom outdoors on New Year's day.

GRAND RAPIDS, MICH.—Eli Cross shipped 20,000 violets to Chicago for Christmas trade.

BEVERLY, MASS.—D. H. Guinevan has filed a bankruptcy petition, liabilities \$8,127.28; no assets.

CANON CITY, COLO.—Mrs. Thompson has bought the McKay interest in the firm of Thompson & McKay.

YORK, NEB.—C. S. Harrison says that the pæonia growers of Nebraska have stocks aggregating only 200,000.

LOUISVILLE, KY.—Mrs. Chas. Raynor has sold her store to Mrs. C. B. Thompson, who has placed her son in charge.

LAURELBRANCH, N. C.—Mrs. Alice Bryan has bought the stock and business of the C. W. Smith Florist Company.

WICKFORD, R. I.—The Homogansett Greenhouses have been sold out to a new company called the Homogansett Florist Company.

SOUTH ORANGE, N. J.—The business of W. A. Manda has been incorporated under New Jersey laws, with a capital stock of \$150,000.

BATAVIA, ILL.—Wm. Clark was visited by a fire on the night of December 28 which destroyed three greenhouses and the office, loss about \$1,500.

EVERETT, MASS.—James Burns has been compelled to shut up his place because of inability to get coal, and several others are in about the same boat.

WATERBURY, CONN.—The City Lumber and Coal Company has begun suit against R. S. Rasmussen for \$600 and Rasmussen has closed his flower counter in Dillon's art store.

BOULDER, COL.—Ed. Hubbard has sold the retail branch of his business to John M. Johnson. He will continue the producing end and will shortly erect a large range of glass for the wholesale trade.

SPRINGFIELD, MASS.—The Murphy Company are petitioners in bankruptcy. Liabilities given as \$2,785.33; assets \$1,000. A. N. Pierson is the heaviest creditor, \$685.59. The firm consisted of D. J. Murphy and J. I. Bolt.

DES MOINES, IA.—I. W. Lozier advertises that on funeral work he gives churches, lodges and other societies a discount of twenty per cent from regular prices. He says he has agents in nearly every community in Iowa and is doing a big business in shipping designs.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements on all except cover pages,
10 Cents a Line, Agate; \$1.00 per inch.
Cash with Order.

No Special Position Guaranteed.

Discounts are allowed, only on consecutive inser-
tions, as follows—6 times, 5 per cent; 13 times,
10 per cent; 26 times, 20 per cent;
52 times, 30 per cent.

Cover space sold only on yearly contract at
\$1.00 per inch, net, in the case of the two
front pages, regular discounts apply-
ing only to the back pages.

The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines only.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

FRED. MANSOFF, Brandon, Manitoba,
was delivering cut flowers on Christmas
day with the temperature 44° below
zero, but says he has no "kick coming."

THE rate of a fare and one-third for
the round trip has been authorized for
the convention of the American Carna-
tion Society at Brooklyn, N. Y., February
19-20.

THE whole country will heartily
co-operate in the action on express rates
to be determined upon at the Boston
meeting next Saturday under the auspices
of the S. A. F.

THE yellow address label on your paper
bears the date at which your subscrip-
tion expires. When we receive your
renewal the date on the yellow label will
change within three weeks.

Society of American Florists.

EXECUTIVE COMMITTEE APPOINTMENTS.

President Burton has appointed Messrs.
Geo. C. Watson, Philadelphia, and R. F.
Tesson, St. Louis, members of the execu-
tive board, to serve for a term of three
years, beginning January 1, 1903.

ACTION ON EXPRESS RATES.

In compliance with an appeal from
local members of the society and by and
with the advice and consent of President
Burton, a meeting of flower shippers and
others directly affected is called at 9
o'clock a. m., Saturday, January 17, at
the American House, Boston, to consider
the unwarranted and oppressive advance
in express charges upon cut flower ship-
ments and to take such action in the
premises, under the auspices of the
national society, as may be necessary for
the protection of the cut flower industry.
All flower growers and dealers are cordi-
ally invited whether or not members of
the S. A. F. Wm. J. STEWART, Sec'y.

Treatment for Violets.

ED. AM. FLORIST:—Do violets need a
top dressing during the season? If so
what is beneficial for them? When
should the dressing be applied? Would
you recommend watering them occasion-
ally with weak liquid manure? I rubbed
a little wood ashes on the top of the soil,
as it was getting a little green. Is the soot
from the boiler tubes of any value? I am
burning wood. F. B.

If the violets are in good growing con-
dition a top dressing may be applied
before the blooming season to good
advantage. It is rather difficult to put
on when the plants are in bud and bloom.
If put on late in September it will answer

two purposes, keep the flowers clean and
prevent the soil from getting green. A
mixture of barnyard manure, not too
rotten, makes a good dressing. Liquid
manure may be applied every third or
fourth watering during the flowering
season, but care must be exercised not to
water when there are many open flowers,
as violets are very sensitive as to odor.
Water with very little pressure so as not
to soil the flowers and foliage. If "F. B."
had rubbed a little air-slaked lime into
the soil instead of wood ashes, it would
have been more beneficial to both plants
and soil. Wood ashes are all right for
carnations but are of no use for violets.
I have no experience regarding soot from
boiler tubes but would not advise its use.
I know ashes are death to violets if used
frequently. ROBERT KLAGGE.

Greenhouse Building.

Chestnut Hill, Pa.—F. W. Taylor, con-
servatory.

Pittsburg, Pa.—D. A. Stewart, one
house.

Pittsfield, Mass.—Dr. F. A. C. Perrine,
conservatory.

New Haven, Conn.—Doughty & Co.,
one house.

Mansfield, O.—Berno Floral Company,
house 22x65.

So. Elizabeth, N. J.—Pennsylvania R.
R., range of houses.

The Giberings of Job.

Speaking of the coal situation, reminds
one that summer will come by and by;
and speaking of summer calls to mind
the host of flies, gnats and mosquitoes
which come with it. This naturally
leads us to think of Job, only we have
him with us all the time—worse luck. His
bite is non-poisonous—it isn't even pain-
ful—but how he does buzz, and buzz,
and buzz! What malicious pleasure he takes
in alighting on our friend Lonsdale's bald
spot just as that horticultural leviathan
has settled down in the calm conscious-
ness of duty well done, to the enjoyment
of his after dinner nap! What a terrific
snort there is when he blunders into the
ginger jar man's nostril!

Then at times, too, he reminds us of
other things. One of my neighbors has
recently purchased one of the long-eared,
patient little beasts whose name is not
to be mentioned to ears polite, and every
time the brute "hee haws" I can't for the
life of me help thinking of Job. It is such
a tremendous noise to come from such an
insignificant little animal, and so abso-
lutely futile, too.

As we have just said, these things
remind us of Job in his occasional moods,
but to describe him in proper form,
when he is most natural, most like him-
self, one must draw on Kipling. How
perfectly his characterization of the Ban-
dar-log (the monkey folk) fits Job:
"They have no law. They are outcasts.
They have no speech of their own, but
use stolen words which they overhear
when they listen and peep***. They
have no remembrance. They boast and
chatter and pretend they are great peo-
ple about to do great affairs***. But
whenever they found a sick wolf or a
wounded tiger or bear, the monkeys
would torment him, and would throw
sticks and nuts at any beast for fun
and in the hope of being noticed. Then
they would howl and shriek senseless
songs*** and so they settled things by
making up a saying 'What the Bandar-
log think now the Jungle will think

later;' and that comforted them a great
deal." Surely, Kipling must have known
him—intimately.

Lately he has given out the statement
that he does not write for pay—how does
he eat, then? Can he show any visible
means of support aside from the per-col-
umn returns for the "sticks and nuts" that
he throws at recognized and respected
members of the trade. Can he demon-
strate himself to be anything more than
a wart on the trunk or a boil on the neck
of the trade? LASTMAN.

Exorbitant.

ED. AM. FLORIST:—Cannot something
be done by united action in protest or
petition on the matter of these exorbi-
tant express charges? We do a compar-
atively small business up here but our
express bill was running \$2 a day and
now, since the rise in rates, it averages
\$3. We want to give our aid in any
movement looking to a return to the old
tariff. SHOTWELL & GRAVER.

Fargo, N. D.

Express Rates.

ED. AM. FLORIST:—Is there no remedy
for the florists against the recent change
in express rates? We had built up quite
a business in loose cut flowers, as well as
designs, with small neighboring towns.
We could send a small package, under
three pounds, for 15 cents, so we prepaid
the express. Now they charge us 40
cents for the same, which will completely
kill the business. I protested to the local
agent and he said the charge of 15 cents
was a special rate, the regular rate being
25 cents, and now he has instructions to
make it one and a half times the regular
rate, so he made it 40 cents for even
change. Rather steep for fifteen miles of
direct road. E. H. HOWLAND.

Holyoke, Mass.

OBITUARY.

JOHN S. MURRAY.

John S. Murray, the well known and
highly esteemed pioneer florist of Mon-
treal passed away December 31. Some
years ago he suffered a stroke of paraly-
sis, from which he never recovered, but
he was able to be up and around the
house in an invalid chair and to receive
friends. He appeared to be in his usual
health until the last day of his life, giving
no warrant that the end was near. Born
at Alyth, Forfarshire, Scotland, 69 years
ago, he came to Montreal in 1854, where
he worked as a private gardener for
about eight years. He then started, on
a very small scale, in the flower business
and soon built up one of the best in the
city, being thus the pioneer among the
florists there. He was a quiet, home-
loving gentleman, attentive to his busi-
ness and highly esteemed by the trade,
who sent floral tributes in abundance
and attended his funeral, with few absent.
G. V.

Catalogues Received.

W. Atlee Burpee & Co., Philadelphia,
Pa., vegetable and flower seeds; Oscar H.
Will & Co., Bismarck, N. D., hardy trees
and seeds; The Evans Seed Co., Ltd.,
West Branch, Mich., bean and pea seeds;
The Greenhouse Mfg. Co., Cincinnati, O.,
greenhouse construction; Texas Seed

Pecan Co., Fort Worth, Texas, pecan trees; J. C. Bauer & Son, Judsonia, Ark., strawberry plants, etc.; John G. Sholl, Burlington, N. J., Success carnation; John Lucas & Company, Philadelphia, Pa., paints, oils, glass, etc.; Jean Barth Bos, Overveen, Holland, novelties; John Sharpe & Sons, Bardney, Lincoln, England, vegetable and flower seeds; Fredrick Roemer, Quedlinburg, Germany, flower seeds; William Toole, Baraboo, Wis., pansies, etc.; Wm. Elliott & Sons, New York, nursery stock; Texas Seed & Floral Company, Dallas, Texas, plants and seeds; The McGregor Bros., Springfield, O., plants and flowers; Wood, Stubbs & Co., Louisville, Ky., farm seeds; Chas. F. Meyer, New York, bulbs and plants; Pape & Bergmann, Quedlinburg, Germany, seeds; Sackett Bros. Nurseries, Lebanon Springs, N. Y., trees, shrubs, etc.; J. D. Thompson Carnation Co., Joliet, Ill., carnations; Nathan Smith & Son, Adrian, Michigan, chrysanthemums, etc.; Vilmorin-Andrieux & Co., Paris, France, trees, shrubs, plants, etc.; Frank Banning, Kinsman, Ohio, gladioli; The Wilke Mfg. Co., Anderson, Ind., refrigerators; H. Bayersdorfer & Co., Philadelphia, Pa., florists' supplies.

CALENDARS.

P. J. Berekmans, Augusta, Ga.; Augustus Caspers, Rochelle, Ill.; M. Rice & Co., Philadelphia; John Lucas & Co., Philadelphia, Pa.; Florence A. Willard, Providence, R. I.; Isaac A. Blanchard & Co., New York; Holton & Hunkel Co., Milwaukee, Wis.

MANITOWOC, Wis.—G. M. Frase has closed out and retired from business.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1903 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Situation Wanted—As carnation & 'mum grower; 5 years at present position. Address A R B, care American Florist.

Situation Wanted—A1 rose, carnation, 'mum, violets, pot and bedding plants grower as all-around florist. Address P B, care American Florist.

Situation Wanted—By a single German age 34; 20 years' experience in greenhouse work; 8 years in this country. G. KIEFNER, 83 West Van Buren street, Chicago.

Situation Wanted—By first-class grower of roses, carnations, etc., on modern place in Colorado or any far western state. State wages, etc. Address AUTO, care American Florist.

Situation Wanted—By single young man on private place as second man; 7 years' experience in orchids, greenhouse plants and general work. First-class references. Address F V, care American Florist.

Situation Wanted—To take charge by experienced grower of roses, carnations and general stock; middle aged, married; sober and industrious. State particulars. A M, Florist Lyons Farms, Union Co., N. J.

Situation Wanted—As working foreman, by a reliable and up-to-date grower of roses, carnations, 'mums and general line of pot and bedding stuff. State wages. Address RELIABLE, care American Florist.

Situation Wanted—As head gardener or foreman; German, speaks English, 30 years of age; 14 years' experience, A1 reference; last position with J. Blair, care of Ogden Mills, Staatsburg, N. Y. J. KRAMER, Millbrook, Dutchess Co., N. Y.

Situation Wanted—As foreman or to take full charge; life experience as grower and propagator of general florist stock. Roses and carnations a specialty. A1 references as to sobriety and ability. English, married. Please state wages, etc. C R, care American Florist.

Situation Wanted—By young man, single, good education and all-around grower, 8 years' experience in wholesale and retail trade, as helper in first-class establishment where good wages are paid, or capable to take charge of small place. ILLINOIS, care American Florist.

Situation Wanted—To take charge of a retail place. Good grower of roses and general cut flowers; 12 years' experience; single; age 33. A thoroughly reliable man; Ind., Ill. or Kentucky preferred. Address FOREMAN, care American Florist.

Help Wanted—Two good quick all-around greenhouse men. C. H. FREY, Lincoln, Neb.

Help Wanted—General all-around seedsman, German with family preferred. Address U S, care American Florist.

Help Wanted—A good all-around cut flower grower as helper; single preferred. References required. X, care American Florist.

Help Wanted—A man to look after about 8,000 feet of glass. Must know how to grow carnations, violets, roses and general stock. Send reference. W W, care American Florist.

Help Wanted—Good all-around cut flower grower, single, for a place near Kansas City. Good pay to the right party. Address GROWER, care American Florist.

Help Wanted—Plant man, thoroughly capable of taking charge of our mailing plant department. Steady position; reference. Address THE LIVINGSTON SEED CO., Columbus, O.

Help Wanted—Two section hands for rose growing. Good salary to right men. Apply at greenhouses. From Union Depot, Chicago, 14 miles on C. M. & S. P. to POEHLNANN BROTHERS Co., Morton Grove, Ill.

Help Wanted—Clerk, bright, ambitious and energetic young man for office work. One with nursery experience preferred. State age and all details. THOMAS MEEHAN & SONS, Inc., Germantown, Pa.

Help Wanted—Competent grower to take charge of miscellaneous stock, plants and cut flowers, especially carnations; one who is a design maker preferred. Good wages to right party. Address 100, care American Florist.

Help Wanted—At once, or commence Jan. 15, young man with 2 or 3 years' experience; strictly sober and honest. State wages, with board; references required. Address J. K. POSTMA, Fort Scott, Kans.

Help Wanted—Man who has thorough knowledge of greenhouse boilers and steam fitting, and capable of using a saw and hammer. None but sober, industrious man need apply; reference. THE LIVINGSTON SEED CO., Columbus, O.

Help Wanted—A sober, honest, reliable man to take charge of greenhouse and store. Must be able to take telephone orders and wait on customers; good designer and decorator; furnish references. J. FULLER, 31 Orchard St., Leominster, Mass.

Help Wanted—Single man about 30 preferred, to take charge of 10,000 feet of glass where a general stock is grown for a retail business with carnations a specialty. State wages expected and give reference. TAOS, M. FITZGERALD, Beaver, Beaver county, Pa.

Help Wanted—Bright young man, single, wanted at once for counter trade by firm of general seedsmen and florists in the south. An energetic man preferred, one who would appreciate a good future. Address C G A, care American Florist.

Help Wanted—A good all-around man who can propagate and care for general stock. A young man of reasonable experience, good worker and pleasant manner. Can have a permanent place in a live establishment. Address LE R, care American Florist.

Help Wanted—Single man of good habits to grow carnations on a place of 10,000 feet of glass. State wages wanted with board and room in first letter; also references and age. Permanent position if suited. Address FRED. G. LEWIS, Lockport, N. Y.

Help Wanted—An active, industrious man as foreman on a place of about 25,000 feet of glass. Must be a first-class grower of roses, carnations, and general stock for wholesale and retail trade. He must not be afraid of work; must be able to manage men. Only a sober, reliable man need apply. FLORIST, care McNeill's Seed Store, Philadelphia, Pa.

Wanted—Second-hand hot water boiler for heating 700 feet of glass. Address HESTON HARTSHORN, Highland, N. Y.

Wanted—Catalogues from florists and nurserymen, florist supplies, greenhouse construction and pots. L. C. BASS, Honesdale, Pa.

Wanted—To know the address of Stephen Mortensen, formerly with Edwin Lonsdale, Chestnut Hill, Philadelphia, Pa. For his interest. Address F. J. STEHLI, Lorain, Ohio.

For Sale—In gas belt, modern greenhouses, about 7,000 square feet with stock, in prime condition. Write for particulars. M. E., care American Florist.

For Sale—Established greenhouse business of about 10,000 feet of glass, with or without ground. Good opening with small capital. Must sell by April 1, 1903. OHIO, care American Florist.

For Sale—Greenhouses, 5,000 feet stocked with carnations, roses and bedding plants, and 5 acre garden. Good retail trade in garden and greenhouses. Have southern fever. Good opportunity. JOHN KLICK, Chicago, Ohio.

For Sale—Glass, sash bars and ventilating apparatus from two 16x60 greenhouses. Glass 16x24 double strength. Hitchings boiler No. 16 and 730 feet 4-inch pipe. Address H. H. CADWELL, Decorah, Iowa.

For Sale or Rent—About 26,000 square feet of glass without stock. City of 80,000 population. Will sell greenhouses and business, or will sell business and rent greenhouses, or will rent greenhouses without business. Rare opportunity for a first-class grower. BROOKSIDE GREENHOUSES, Reading, Pa.

For Sale or Exchange.

Fully stocked greenhouses, 20 miles from Chicago, 25,000 feet of glass; steam heat; paying well; part cash, balance good real estate or time to right party. Address V J 95, care American Florist.

SITUATION WANTED

As working foreman by single young man exceptionally sober, competent and reliable, thoroughly experienced in cut flowers, pot plants and general stock; a good salesman, careful manager and capable of taking full charge. Must be fair sized place and good wages; very best of references. State particulars and wages. Address BUSINESS, care American Florist.

WANTED Man To Run Market Garden on Shares.

Fine chance for experienced gardener. Established asparagus and rhubarb beds, small blackberry and raspberry patches, also apple, peach and cherry orchards. Farm only one mile from limits of city of 25,000 population. Would prefer gardener to run place on shares, furnishing his own tools and labor. Address A. C. WOODBURY, Danville, Ill.

FOR SALE or PARTNER WANTED.....

MARKET GARDEN—76 acres, 4 greenhouses, hot water heat, fine residence, good barns and out-buildings; 4 acres in berries; telephone connection with city, 20,000 inhabitants. NO competition in the greenhouse vegetables. It will pay to investigate. Address BOX 191, EAU CLAIRE, WIS.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.

A grower, desirably located, having conducted a most profitable business for some time, is now obliged to refuse good orders on account of lack of capital.

Parties desiring to become jointly interested in a well paying business that will yield excellent returns on an investment, are requested to correspond with the

NATIONAL FLORISTS' BOARD OF TRADE, NEW YORK.

We did it!
What?

Why, filled your orders for the Holidays, and will continue to do so. Send them along.

J. B. Deamud,
51-53 Wabash Ave., Chicago.
L. D. Phone 3155 Central.

Caldwell's Kwality Kounts Brand
Wild Smilax now on hand.

The F. R. WILLIAMS CO.
WHOLESALE FLORISTS.
Brides, Maids, Metaors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.
Telephone Connections. **CLEVELAND, OHIO.**

Lily of the Valley
From Cold Storage
\$15.00 per 1000; case of 2,500, \$35.00; per 100, \$1.75.
FINEST CUT VALLEY always on hand in large quantities.
H. N. BRUNS,
1409-1411 W. Madison St., CHICAGO.

...GEO. M. KELLOGG...
Largest Grower of... **Cut Flowers** in the West.
Give us an order and we will please you.
Our Greenhouses at PLEASANT HILL, MO.
Our Store, 906 Grand Ave., KANSAS CITY, MO
LONG DISTANCE 'PHONE AT EITHER PLACE.

Holton & Hunkel Co.
Wholesale Florists.
467 Milwaukee St., MILWAUKEE, WIS.

SHIPPING LABELS FOR
...Cut Flowers
Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples....
ELECTRO OF THIS LEAF, POSTPAID, \$4.25.
American Florist Co.,
CHICAGO.

Wholesale Flower Markets

MILWAUKEE, Jan. 8.

Roses, Beauty, long, per doz.	4.00@5.00
" " med. "	2.00@3.00
" " short "	1.00@1.50
" Liberty	15.00@18.00
" Bride, Bridesmaid.....	8.00@10.00
" Meteor.....	8.00@10.00
" Golden Gate.....	8.00@10.00
" Perle.....	6.00@8.00
Carnations.....	2.00@3.00
Violets.....	1.00
Romans, Paper Whites.....	2.00@3.00
Callas.....	10.00@12.00
Adiantum.....	.75@1.00
Smilax.....	18.00
Asparagus.....	85.00

PITTSBURG, Jan. 8.

Roses, Beauty, specials, per doz.	10.00@15.00
" " extras "	6.00@8.00
" " No. 1 "	2.00@4.00
" " No. 2 "	.75@1.50
" Bride, Bridesmaid.....	6.00@20.00
" Meteor.....	6.00@15.00
" Liberty.....	6.00@15.00
Carnations.....	1.50@5.00
Paper Whites, Romans.....	3.00@4.00
Tulips.....	3.00@4.00
Lily of the valley.....	4.00@5.00
Violets.....	1.00@2.50
Smilax.....	12.00@15.00
Adiantum.....	1.00@1.25
Asparagus, strings.....	50.00@75.00
" Sprenger.....	2.00@4.00

CINCINNATI, Jan. 8.

Roses, Beauty.....	6.00@60.00
" " Bride.....	4.00@10.00
" " Bridesmaid.....	4.00@10.00
" " Meteor.....	4.00@15.00
Carnations.....	3.00@6.00
Lily of the valley.....	4.00@5.00
Harrisii lilies..... per doz.,	\$2.50
Romans, Paper Whites.....	2.00@3.00
Asparagus.....	50.00
Smilax.....	12.50@15.00
Adiantum.....	1.25

St. Louis, Jan. 8.

Roses, Beauty, long stem.....	25.00@60.00
" Beauty, medium stem.....	15.00@25.00
" Beauty, short stem.....	5.00@15.00
" Bride, Bridesmaid.....	6.00@10.00
" Golden Gate, Meteor.....	6.00@10.00
" Perle.....	6.00@10.00
Carnations.....	2.00@6.00
Violets.....	2.00
Paper Whites, Romans.....	3.00@4.00
Tuberose.....	4.00
Lily of the valley.....	3.00@4.00
Smilax.....	12.50@15.00
Asparagus Sprenger.....	1.50
" Plumosus.....	.75@1.00

E. H. Hunt,
WHOLESALE
Cut Flowers
"THE OLD RELIABLE."
76 Wabash Ave., ...CHICAGO.

Poehlmann Bros. Co.
Wholesale Growers of
and Dealers in **Cut Flowers**
All telegraph and telephone orders given prompt attention. 35-37 GREENHOUSES: Morton Grove, Ill. Randolph Street, CHICAGO, ILL.

Bassett & Washburn
76 & 78 Wabash Ave., CHICAGO.
Wholesale Dealers and Growers of **Cut Flowers**
GREENHOUSES: HINSDALE, ILL.

The Cincinnati Cut Flower Co.,
437-439 Main St. WHOLESALE FLORISTS. CINCINNATI, O.
Consignments Solicited. Special Attention Given to Shipping Orders.

GALAX BRONZE OR GREEN, \$1.00 per 1000; 75c per 1000 in 5,000 lots.
LEUCOTHOE SPRAYS, BRONZE OR GREEN, \$1 per 100.
FANCY FERNS, \$1.50 per 1000.
GREEN SHEET MOSS, choice stock, \$2.50 bbl. sack.
SPHAGNUM MOSS, \$1.50 per bale.
SOUTHERN SMILAX, per 50 lb. case, \$6.00; per 35 lb. case, \$4.50; per 25 lb. case, \$3.50.
All kinds of FLORISTS' SUPPLIES.
L. J. KRESHOVER, 110-112 W. 27th St., N. Y. Tel. Call. 587 Madison Sq.

H. G. BERNING
Wholesale Florist
1322 Pine St., ST. LOUIS, MO.

RICE BROTHERS
WHOLESALE FLORISTS and FLORISTS' SUPPLIES.
Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.
Special attention given to shipping orders. Send for price list of supplies.
128 N. Sixth St., Minneapolis, Minn.

C. A. KUEHN,
Wholesale Florist,
1122 PINE STREET,
ST. LOUIS, MO.
A complete line of Wire Designs.

Pittsburg Cut Flower Co. Ltd
WHOLESALE FLORISTS.
Pittsburg, Pa.
Please mention the American Florist when writing.

LET US HAVE YOUR ORDER

FOR ORCHIDS: Choice Cattleyas and Cypripediums.

FOR BEAUTIES, Brides, Maids, Meteors, Gates, Ivory. Best stock at all times

FOR CARNATIONS: Select, all colors, and the Fancy varieties.

FOR VIOLETS, Valley, Callas, Romans, Paper Whites.

FOR SWEET PEAS, Alyssum, Mignonette, Stevia.

FOR SMILAX, Asparagus, Galax, Ferns.

FOR ANYTHING in season. RIGHT GOODS AT RIGHT PRICES

L. D.
Phones
1999 & 1977
Central.

E. C. AMLING,

THE LARGEST, BEST EQUIPPED AND MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32-34-36 Randolph Street,

.....CHICAGO, ILL.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

WHOLESALE

Cut Flowers

Florists' Supplies, Seeds, Etc.
Galax and Leucothoe, Wild Smilax.

Special attention given to shipping orders.
Long distance 'Phones, Main 584 and 748.

J.M. McCullough's Sons
316-318 Walnut St., Cincinnati, O.

I Wish You All a Merry Christmas
and a happy New Year



And I hope we will meet in Milwaukee, Wis., next summer as brothers. But I regret to say that my hardy cut fern is now \$1.00 per 1000. We are obliged to raise our price as the stock is very low. **Sphagnum Moss**, 75¢ per barrel. **Laurel Roping**, \$5.00 per 100 yards. Cash with all orders. All orders by mail or dispatch promptly attended to.

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Roses and Carnations **WHOLESALE CUT FLOWERS**
A Specialty..... **GROWER of**

Wholesale Flower Markets

CHICAGO, Jan. 9.		
Roses, Beauty, 36-inch stems		6.00
" " 30 " "		5.00
" " 24 " "		4.00
" " 20 " "		3.00
" " 15 " "		2.00
" " 12 " "		1.50
" " 6 to 8 " "		1.00
" Liberty	8.00@	20.00
" Chateau	8.00@	18.00
" Bride, Bridesmaid	6.00@	12.00
" Meteor, Golden Gate	6.00@	12.00
" Perle	6.00@	10.00
Cattleyas	\$5.00	per doz.
Violets	1.50@	2.00
Carnations	2.00@	5.00
Romans, Paper Whites	2.00@	3.00
Lily of the valley	4.00@	5.00
Asparagus, per string	.60@	.75
Adiantum	1.00@	1.50
Common ferns, per 1000	2.00	.25
Smilax, per dozen	1.50	

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Best Quality
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Wholesale Flower Markets

Boston, Jan. 7.

Roses, Beauty, Edgely, extra.....	40.00@50.00
" " medium.....	20.00@30.00
" " culls.....	6.00@ 8.00
" " Bride, Bridesmaid, Meteor.....	4.00@ 8.00
" " extra.....	12.00@16.00
" " Liberty.....	15.00@25.00
Carnations.....	1.00@ 3.00
" " Special.....	4.00@ 6.00
Lily of the valley.....	2.00@ 4.00
Violets.....	.50@ 1.00
Paper White narcissi, Hyacinths.....	1.00@ 2.00
Adiantum.....	.75@ 1.00
Asparagus.....	50.00
Smilax.....	12.50@18.00

PHILADELPHIA, Jan. 7.

Roses, Tea.....	6.00@10.00
" " extra.....	12.00@15.00
" " Beauty, extra.....	50.00@ 75.00
" " firsts.....	25.00@40.00
" " Queen of Edgely, extra.....	50.00@75.00
" " firsts.....	25.00@30.00
Carnations.....	2.00@ 8.00
Violets.....	1.00@ 1.50
Lily of the valley.....	3.00@ 6.00
Asparagus.....	25.00@50.00
Smilax.....	12.50@15.00
Adiantum Farleyense.....	8.00@10.00

BUFFALO, Jan. 8.

Roses, Beauty.....	25.00@75.00
" " Bride, Bridesmaid, Meteor.....	6.00@12.00
Carnations.....	3.00@ 4.00
Violets.....	1.50@ 2.00
Paper Whites, Romans.....	2.10@ 4.00
Lily of the valley.....	3.00@ 4.00
Smilax.....	15.00@20.00
Adiantum.....	1.00@ 1.50

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Is now open and ready for business. Consignments of good stock solicited, especially Valley, Violets and Carnations. Commission, 10 per cent and \$50 annual stall rent, payable monthly in advance. Flowers, choice of this market, carefully packed and shipped at short notice.

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Roses, Carnations and all kinds of Seasonable Flowers in stock.

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Open Day and Night.

Fancy or Dagger Ferns \$1 Per 1,000.

BRONZE OR GREEN GALAX \$1.00 per 1000.
PRINCESS PINE, \$6.00 per 100 lbs. LAUREL FESTOONING, 4c, 5c and 6c per yard. Princess Pine Festooning, all grades. Pine Wreaths and Laurel Wreaths, all grades for Xmas. Be sure and send your orders in early and you will get the best to be had.



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Open for Cut Flower Sales at 6 o'clock Every Morning.....

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Southern Smilax; Cycas Palm Leaves, fresh and painted; Fern, Galax, Ivy and Magnolia Leaves; Leucothoe Sprays; Holly; Mosses; all green decorative material. The best that grows. We have no other sort. Write for our list of stock with prices.

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Special American Beauties, Surpassing Carnations, Lily of the Valley, Orchids, and all Seasonable Flowers.

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An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.

Traendly & Schenck

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38 W. 28th Street, Cut Flower Exchange.
New Telephone No. 798 & 799 Madison Sq.

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NEW YORK, Jan. 7.

Roses, Beauty, Edgely, best.....	30.00@50.00
" " medium.....	10.00@20.00
" " inferior.....	5.00@ 8.00
" Bride, Bridesmaid.....	4.00@ 8.00
" " best.....	10.00@16.00
" Meteor, Golden Gate.....	6.00@12.00
" Liberty.....	10.00@40.00
Carnations.....	1.00@ 3.00
" Fancy and novelties..	4.00@ 6.00
Violets.....	.50@ 1.75
Lily of the valley, Daffodils.....	2.00@ 4.00
Cattleys.....	50.00
Romans, Paper Whites.....	1.00@ 2.00
Poinsettia.....	10.00@15.00
Smilax.....	8.00@10.00
Adiantum.....	.50@ .75
Asparagus.....	35.00@50.00
Sprengerl, doz. bun.	3 00

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AMERICAN SEED TRADE ASSOCIATION.

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VISITED BOSTON:—H.C. Agnew, Agnew, Cal.

VISITED ST. PAUL:—W. H. Small, Evansville, Ind.; W. H. Grenell, Saginaw, Mich.; A. T. Ferrell.

HIGHER contract prices for peas and beans for 1903 crop are being asked, especially for the former.

THIS year's issue of the catalogue of J. M. Thorburn & Company, New York, is the 102nd annual issue.

VAUGHAN'S SEED STORE, Chicago, has a department in which lessons are given in Indian basketry by a competent teacher.

FIRE at the plant of the Madson Seed Company, Manitowoc, Wis., January 2, caused panic among the girls employed, but did little damage.

THE executive committee of the American Seed Trade Association will meet at the Shoreham Hotel, Washington, D. C., January 13, at 3 p. m.

J. K. L. M. FAROUHAR, of Boston will give an illustrated lecture on seed growing before the horticultural society at Worcester, Mass., January 29.

THE H. N. Hammond Seed Company, Bay City, Mich., is delayed with its catalogue because of the destruction of the Adventist printing plant at Battle Creek.

J. H. McCOTTER, who has had charge of D. M. Ferry's seed farm at Pontiac, Michigan, now to be platted, will have the superintendence of the new farm at Rochester, Mich.

EARLY inquiries and orders for field seed corn indicate probable good demand for the season. There seems to be a growing appreciation among farmers of the importance of good seed corn and a willingness to pay better prices.

MANITOWOC, Wis.—The Manitowoc Seed Company has been incorporated here by G. L. Born, G. E. Alter and Albert Guttman. Mr. Born, the secre-

tary and treasurer, was formerly with the M. G. Madson Seed Company. The new firm will carry a general line of seeds and grow peas and other vegetables.

THE tomato crop has certainly been a short one. Catsup makers have been troubled to get pulp, which is their basis. Seedsmen have a very short supply of seed, but in face of this the canned product, says the *American Grocer*, is nine and one-quarter million cases against four and one-quarter million in 1901. The five states, Maryland, Indiana, Delaware, New Jersey and California, pack eighty per cent of the output, the first state named packing one-half.

Samples of Seeds.

The following circular letter (No. 142) of the Treasury Department, Washington, D. C., to collectors and other chief officers of customs, was issued under date of December 23, 1902:

At the instance of the Secretary of Agriculture,

it is hereby directed that, commencing January 1, 1903, and continuing for six months, 2-ounce samples of all importations of 100 pounds or more of grass, clover and forage-plant seeds be prepared at the earliest practicable date after entry, and forwarded to the seed laboratory, Department of Agriculture, Washington, D. C., labeled with names and addresses of consignors and consignees, name of seed as given in the invoice, and quantity of the consignment.

O. L. SPAULDING, Assistant Secretary.

FORT WAYNE, IND.—Geo. W. Doswell has taken his son into the firm and they have doubled their glass, having now 12,000 square feet, two-thirds of it in carnations and roses and doing a general wholesale and retail business.

CLUCAS & BODDINGTON CO.
Importers and Exporters of
Seeds, Bulbs & Plants

812-814 Greenwich Street,

.....NEW YORK CITY.

Send for quotations on all Florists' Bulb Stock.

OVER 2,000 ACRES IN CULTIVATION.

Braslan Seed Growers Co.

Growers for the Wholesale Trade Only.

Correspondence solicited.

SAN JOSE, CAL.



Cleaning a 1902 Crop of Southport White Globe Onion.

Wish you could visit our ranches during the interesting process of harvesting our various crops.

HERE IS ANOTHER BARGAIN IN BULBS FOR EASTER FORGING.

All the Paper White Grandiflora, Horsfieldi, Emperor, Empress, and double-nosed Von Sion Narcissus offered in last week's issue **Are All Sold.** We could have sold them two or three times over. People know a good thing when they see it. We offer below some other good stock at equally low prices. If you can use any of the **Bulbs** offered, let us have order without delay, before we are sold out.

Now that the holidays are past florists are looking forward to Easter, which comes late this spring—April 12—so that there is plenty of time to get any of the stock here offered in bloom by that time. Bulbous stock is selling for good prices on account of the scarcity of other flowers—due to the high price of coal—and as bulbs can be grown in a low temperature, they will make money for you.

Everything offered is in first-class shape, and are **Great Bargains at these Reduced Prices.** Send for complete list of surplus bulbs, which we are closing out at equally Low Prices. When ordering please refer to this special offer.

SMALL SIZED NAMED HYACINTHS. This is wonderfully fine stock for the price. The bulbs are of large size—12-15 cm. in circumference—and are splendid for Easter forcing, either for cutting or growing in pans. Nothing is more readily salable. Although the price is low, the bulbs are first-class. They will throw almost as good flowers as the larger and higher-priced bulbs. If you have never flowered them, try a thousand or two. You will be pleased with the results. They cannot fail to make money for you.

The following pink varieties at **only \$1.50 per 100; \$12.00 per 1000** viz:— (Worth \$16.00 per 1000), Baron van Thuyll, Gen. Pellissier, Gertrude, Gigantea, Robt. Steger, Solfatar.

The following blue varieties at **only \$1.50 per 100; \$12.00 per 1000**, viz:— (Worth \$16.00 per 1000) Grand Matite, King of the Blues, La Peyrouse, Chas. Dickens, Blondin, Czar Peter, also Tamerlan (yellow).

The following white varieties at **only \$2.00 per 100; \$16.00 per 1000**, viz:— (Worth \$22.00) Baroness van Thuyll, Grandeur a Merveille, Blanchard, L. Innocence, Minc, Van der Hoop, Paix de l'Europe.

F. R. PIERSON CO.,

FINE NAMED HYACINTHS, SINGLE AND DOUBLE. We offer also a limited stock of the following varieties in first sized bulbs: **\$3.00 per 100; \$25.00 per 1000.** (Worth \$35.00 per 1000), La Peyrouse, Regulus, Tamerlan, Grand Lilas, La Paine d'Or, Gen. Pellissier, Grandeur a Merveille, Bloksberg, Bonquet Tendre, Czar Nicholas, Crown Prince of Sweden, Flevo, Garriek, Grootvorst, Gen. Antinek, King of Wurtemberg, La Tour d'Auvergne, La Virginite, Lord Anson, Lord Raglan, Othello, Prince of Orange, Prince of Saxe-Weimar, Princess Royal.

HYACINTHS IN SEPARATE COLORS, SINGLE AND DOUBLE. We still have a few of these left, which we offer as long as unsold at **\$2.50 per 100; \$20.00 per 1000** (Worth \$26.00).

WHITE ROMAN HYACINTHS. We still have a few cases of fine 12-15 cm. bulbs, which we offer as long as unsold at **\$15 per 1000.** (Worth \$25).

NARCISSUS. These prices will speak for themselves. Per 1000
Trumpet Major, single Von Sion \$ 8.00
Prinsep, Poeticus Ornatus, Barri Conspicuous 5.00
Silver Phoenix, Grandis Maximus 15.00

TULIPS, SINGLE AND DOUBLE. Most of the varieties here offered are among the very best forcing varieties, especially for late or Easter forcing: Rachel Ruisch, Rosamund, Hnykuan, Bizard Verdier, Couleur Ponceau, La Candeur, Yellow Rose, Lady Grandison, Duke of York, Rose Blanche, Count Leicester 5.00
Cottage Maid, Joost van Vondel, Brutus, Paony Red 6.00
Toumbesoll Red and Yellow, Gloria Solis, Le Blason, Rosine 7.00
Pontebakker White, Due van Tholl Scarlet, Standard Royal Silver, 7.50
Rose Grandison, Belle Alliance, Mariage de ma Fille 10.00
Proserpine, Mon Tresor, 12.00
Joost van Vondel White, Rose Luisante, 20.00

CALLAS. We have a few hundred of these, which can be gotten in fine shape for Easter.

Extra sized bulbs, 1 1/4 to 1 1/2 inch. in diam., \$3.00 per 100. (Worth \$5 per 100).

Selected bulbs, 1 1/4 to 1 1/2 inch. in diam., \$4.00 per 100. (Worth \$6.00 per 100).

Tarrytown-on-Hudson, N. Y.

New Crop Flower Seeds for Present Sowing.



SWEET SCENTED
MAYFLOWER
VERBENA

	Trade Pkt.	Oz.
AGERATUM, Blue Perfection	.10	.30
Princess Victoria Louise, new dwarf	.10	.80
ALYSSUM, Vaughan's Little Gem, extra	.10	.25
Maritimum, sweet	.05	.15
AMPELOPSIS Veitchi	1 lb.	\$1.00
ASPARAGUS Sprengeri, 1000 seeds, \$1.50; 100 seeds, 30c.	.10	.15
ASTER, Queen of the Market, white, pink, purple, light blue, scarlet, each, 1/4 oz., 20c.	.10	.50
The Carlson, white, pink, rose, lavender, each, 1/4 oz., 50c.	.20	1.25
Branching, pink, lavender, purple, each	.10	.85
white	.10	.60
rose	.10	.75
red	.10	1.00
mixed	.10	.50
BEGONIA Vernon	.15	3.50
Duchess of Edinburgh, new pink	.25	
BELLIS (Daisy) Mammoth white, 1 1/2 oz., 50c.	.25	
Mammoth mixed, 1-16 oz., 40c.	.25	
Longfellow, pink, 1/8 oz., 40c.	.15	

	Trade Pkt.	Oz.
BROWALLIA speciosa major, mixed	.25	.40
CANNA, Crozy vars., best mixed, 1 lb. \$1.00	.10	.10
Chicago, Florence Vaughan, Chas. Henderson David Harum, Francois Reil, each per 100 seeds, 30c.		
CANDYTUFT Giant, hyacinth-flowered white (better than Empress)	.10	.30
CELOSIA (Cockcomb) Pres. Thiers	.25	
CENTAUREA canoidissima, 1000 seeds, 25c.	1.50	
Gymnocarpa	.10	.40
Imperial's, white (better than Margaret)	.10	.50
CLEMATIS paniculata (sow now, sure)	.15	.50
New Coccinea hybrids	.15	.75
CINERARIA maritima	.10	.30
Maritima "Diamond," new	.25	
COBAEA scandens, purple, 4 oz., \$1.00	.10	.30
OASIS, Burbank's new Shasta, true	.25	
ORACAENA indivisa	.10	.30
GERANIUM, apple-scented, 250 seeds, 35c.		
GREVILLEA robusta	.10	.40
HELIOTROPE, Lemoine's Giant, mixed	.25	
HOLLYHOCK Allegheny, best mixed	.25	1.00
Allegheny, white, new	.50	
These Allegheny Hollyhocks, if sown now, will bloom the first year.		
IPOMOEA noctiflora, white seeded Moon flower	.15	.50
New Hybrid Moonflower	.15	.50
KENILWORTH IVY (Linaria Cymbalaria)	.15	
New white	.20	
LEMON VERBENA	1/4 oz., 40c.	
LOBELIA Crystal Palace Compacta	.15	1.25
Bedding Queen	1/4 oz., 50c.	
Emperor William	1/4 oz., 30c.	1.00
Speciosa (trailing)	1/4 oz., 25c.	.75
White Lady, dwarf white	.15	
MAURANDYA, mixed	1/4 oz., 30c.	.10
MIGNONETTE Giant Macheet, selected	.10	.50
Bismarck, an improved Macheet	.20	1.50
MIMULUS moschatius, Musk Plant, 1/8 oz., 20c.	.10	
New Large-Flowering Hybrids	.15	
OXALIS tropaeoloides	.15	
PANSY, Vaughan's International Mixture	1/4 oz., \$1.50	.50 10.00
Vaughan's Giant Mixture	1/4 oz., 60c.	.25 4.00

	Trade Pkt.	Oz.
PANSY, Vaughan's Premium Mixture	.25	5.50
Trimardeau, mixed, Giant-Flowered	.10	1.00
Chicago Parks Mixture	.10	1.00
Masterpiece	1/2 oz., \$1.00	.25 6.00
PETUNIA, "Vaughan's Best" mixture of large-flowering single Petunias, the best in existence	.50	
Giants of California	.35	
Double Large-Flg. Fringed extra choice mixed	1.00	
Blotched and Striped (Inimitable)	.10	.75
Dwarf Inimitable	.25	
PRIMULA obconica, large-flowering white, rose or mixed, each	.25	
PYRETHRUM aureum, Golden Feather	.10	.40
SALVIA splendens, "Drooping Spikes," best	.15	2.00
Clara Bechum, very early, dwf.	.25	2.50
New "Triumph," early	.25	
Silverspot	.25	
Golden Leaved	.25	
SMILAX (Jerusalem Cherry)	.10	.30
SOLANUM (Jerusalem Cherry)	.10	.30
STOCKS, large flowering ten weeks, white, rose, light blue, crimson, dark blue, blood-red and extra choice mixed, each	.25	
Imported collection of 5 varieties, 30c.		
Imported collection of 12 varieties, 50c.		
Snowflake, for forcing, white	.50	
THUNBERGIA mixed	.10	.30
VERBENA, Mammoth White, scarlet, rose, purple, each	.25	
Mammoth, mixd, extra choice	.15	1.00
Mayflower, best pink	.15	1.50
Defiance, fine scarlet, true	.10	1.00
"Vaughan's Best" mixture, there is no better or more complete mixture in existence	1/4 oz., 50c.	.25 2.00
TORENIA Fournieri grandiflora	.25	
White Wings	.20	
Fournieri Compacta	.25	
VINCA rosea, rose fl. albo, rosea albo pura and mixed, each	.15	.50

TEN PER CENT DISCOUNT FOR CASH WITH ORDER AMOUNTING TO TWO DOLLARS OR OVER.

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THORBURN'S SEEDS

LILY OF THE VALLEY PIPS
The finest in the world. Special prices on application.

Dutch Hyacinths and Lillium Longiflorum a few still left.

J.M. THORBURN & CO.
(Late of 15 John Street)
36 CORTLANDT STREET, NEW YORK

Pansies

Worth Raising.

Strong plants, \$4.00 per 1000; \$2.50 per 500; \$1.00 per 100, f. o. b. express here. Cash with order.

CHR. SOLTAU,
199 GRANT AVENUE, JERSEY CITY, N. J.
Please mention the American Florist when writing.

To the American Wholesale Seed Trade

We shall have pleasure in quoting special low Contract prices for seed of the under-noted varieties, which we have grown very extensively in Surrey, Essex and Lincolnshire, our principal effort being to produce the very best strains and supply them direct to the Trade at the most moderate prices. Visitors to England are cordially invited to call and inspect our trial grounds and growing crops.

PEAS.

The following are carefully saved from English grown varieties and may be relied upon for "Stock seed" or other purposes:

- | | |
|-------------------------------|----------------------|
| Alaska, | Notts' Excelsior, |
| Alderman, | Sutton's A. 1. |
| Autocrat, | Sutton's Excelsior, |
| American Wonder, | Sharpe's Queen, |
| Bountiful, | Stratagem, |
| Daisy, | Sangster's No. 1. |
| Duke of Albany, | The Stanley, |
| Duke of York, | Veitch's Perfection, |
| English Wonder, | William Hurst, |
| Gradus, | William the First, |
| Lightning or Earliest of All, | Yorkshire Hero, etc. |

Mangel Wurzel.

- | | |
|-----------------------|------------------------|
| Colossal Long Red, | Yellow Intermediate, |
| Colossal Long Yellow, | Champion Yellow Globe, |
| Orange Globe, | Golden Tankard. |

BEEF.

- | | |
|----------------------|----------------------|
| Egyptian Turnip, | Globe Varieties, |
| Exhibition Long Red, | Improved, etc., etc. |

CABBAGE.

- | | |
|--------------------------------------|---|
| First and Best Early, London Market, | Selected Nonpareil, Drumhead Varieties, |
| Etc., | Etc. |

CARROT.

- | | |
|-------------------|----------------------|
| Early Market, | Long Surrey, |
| New Intermediate, | Selected Altringham, |
| Etc., | Etc. |

RUTA BAGA.

- | | |
|--------------|----------------------|
| Long Island, | Elephant or Monarch, |
| | Scotch Bangholm. |

TURNIP.

- | | |
|---------------------------------------|-----------------|
| Early Snowball, | Yellow Tankard, |
| Aberdeen Yellow Varieties, etc., etc. | |
- Specialists in Giant Market Fancy Pansies
"CORONATION STRAIN," \$4.00 per ounce, post free.

Wholesale Catalogue Mailed free on application. Special offers made on receipt of quantities required.

THE SURREY SEED CO., Ltd., REDHILL, ENGLAND.

OUR DIETORY FOR 1902 WILL BE MAILED TO YOU PROMPTLY UPON APPLICATION. PRICE TWO DOLLARS.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. ILGENFRITZ, Pprs.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

THE Douglas nursery at Waukegan, Ill., has been growing evergreen seedlings since 1861.

THE present plans contemplate the early planting of about 85,000 street trees in Great Falls, Mont.

JUDGE FRED. WELLHOUSE, the "apple king," has been elected president of the Kansas State Horticultural Society.

SAMUEL C. MOON believes in planting for permanency. He says that the oak will overtake many a tree of faster growth.

THE Denver & Rio Grande R. R. will shortly plant its station grounds. J. P. Brown, of Connersville, Ind., is now at Provo, Utah, where the road has 65,000 catalpa trees ready for use in the spring.

THE American Nurserymen's Protective Association has increased its executive committee to seven by the appointment of D. S. Lake, Shenandoah, Ia.; A. L. Brooke, Topeka, Kan.; H. B. Chase, Huntsville, Ala., and John S. Kerr, Sherman, Texas.

CAMDEN, N. J.—During the coming spring the work of laying out the little park in front of the Pennsylvania R. R. terminal will be completed. The expense of beautifying this tract of ground will approximate \$10,000, divided between the different divisions of the P. R. R.

Utica, N. Y.

Utica is one of the few cities of any size in the eastern section of the country having no public park reservations. For several years the subject has been discussed very generally and public opinion has been gradually brought to a realization of the necessity of an appropriate system of public parks. It is likely that something practical will be done very soon, as the Chamber of Commerce and the Common Council have both taken up the subject this season with commendable energy and the people are manifestly favorable.

Tree Seeds.

Our new descriptive CATALOGUE OF SEEDS of American Conifers, Trees, Shrubs, Palms, Cacti, Herbaceous Plants, etc., has been mailed to the trade. A postal will bring it to you. PINEHURST NURSERIES, Pinehurst, N. C. Otto Katzenstein, Mgr.

RAFFIA NATURAL COLORED
VAUGHAN'S SEED STORE,
 CHICAGO and NEW YORK.

Send to **THE MOON** Company
 For Trees, Shrubs, Vines
 Your and Small Fruits.
 Descriptive Illustrated Catalogue Free.
THE WM. H. MOON CO.
 Morrisville, Pa.

FARQUHAR'S RELIABLE FLOWER SEEDS For Immediate Sowing.

AGERATUM Mexicanum.....	per ounce, \$	.30
ASTER American Branching, mixed.....	.....	1.00
American Branching, separate colors.....	.....	1.00
Queen of the Market, mixed.....	.....	.50
Queen of the Market, separate colors.....	.....	.50
CANDYTUFT Giant White.....	¼ pound, \$1.00;	.40
CENTAUREA Gymnocarpa.....	.....	.40
CARNATION Marguerite, choice mixed.....	.....	1.25
CYCLAMEN Columbian Prize		
Farquhar's Giant White.....	100 seeds, \$1.25; 1000 seeds, \$10.00	10.00
Farquhar's Giant Pink.....	100 seeds, 1.25; 1000 seeds, 10.00	10.00
Farquhar's Giant Crimson.....	100 seeds, 1.25; 1000 seeds, 10.00	10.00
LOBELIA Crystal Palace Compacta.....	¼ ounce, 50c; ounce,	1.25
LOBELIA Gracilis.....	.....	.40
MIGNONETTE Evan's Boston Giant.....	.....	1.00
MIGNONETTE Machel.....	.....	.50
PETUNIA California Ruffled Giant.....	1-32 ounce, \$1.25	.....
SALVIA Glory of Stuttgart, very fine.....	.....	2.25
SALVIA Bonfire.....	.....	2.25
STOCK Cut-and-Come-Again White.....	.....	3.00
STOCK Farquhar's White Column.....	¼ ounce, \$2.00	.....
SWEET PEAS	Oz. ¼ lb. lb.	
Earliest of All.....	\$.10 \$.15 \$.35	
Extra Early Blanche Ferry.....	.05 .10 .30	
Mont Blanc.....	.10 .20 .60	
Katherine Tracy.....	.45 .10 .30	
New Countess.....	.65 .10 .30	
VERBENA Farquhar's Mammoth Hybrids, mixed colors.....	.....	1.00
VERBENA Farquhar's Mammoth Hybrids, separate colors.....	.....	1.50

If less than 1-4 Oz. of a kind is ordered a proportionate advance in price will be charged.
R. & J. FARQUHAR & CO., 6 and 7 S. Market Street, BOSTON.

Hardy Herbaceous Plants.

Japanese Iris, German Iris and Paeonias, Specialties.

Golden Glow, Eulalias, Day Lilies, Hardy Sunflowers, Dragon's Head, Cone Flowers, Boltonias, Sedums and a long list of other valuable kinds in large supply. Please write for lists of varieties and prices; they will probably surprise you.

J. T. Lovett, Little Silver, N.J.

GLADIOLI OUR MOTTO: QUALITY FIRST.
 We have, however, a sufficient quantity to supply all demands. Send for Catalogue.

ARTHUR COWEE,
 "Meadowvale Farm," Long Distance Phone 9x. Berlin, N. Y.
 United States Grower and Representative of GROFF'S HYBRIDS.

Almost half a century of fair dealing has given our products that prominence which merit deserves. We still offer everything of the best for
ORCHARD, VINEYARD, LAWN, PARK, STREET, GARDEN & GREENHOUSE.
 Correspondence solicited. Catalogue and Trade List free. 49 years, 44 greenhouses, 1000 acres.
THE STORRS & HARRISON CO., Palmsville, Ohio.

400,000-ONE YEAR CAL. PRIVET.
 10 to 12 inch \$6.00 per 1000. 12 to 15 inch, \$8.00 per 1000; cuttings, 8 inch tied 200 in bunch, \$8.00 per 10,000, \$75.00 per 100,000. Have in stock 2 3 and 4 year, 2, 3, and 4 feet.
RIVER VIEW NURSERIES,
 J. H. O'Hagan, LITTLE SILVER, N. J.

Crimson RAMBLER.
 5 to 6 feet, extra heavy plants, \$30.00 per 100.
 4 to 5 feet \$15.00 per 100.
 3 to 4 feet, \$12.00 per 100.
 2½ to 3 feet, \$10.00 per 100.
The Conard & Jones Co., West Grove, Pa.
 Please mention the American Florist when writing.

FERNS
 OUR SPECIALTY.

If you are in the market for ferns and want the best, give us a trial order. Owing to the steadily increasing demand for our stock we have added another large range of greenhouses to our establishment and can offer the best stock of ferns ever produced in unlimited quantities at comparatively low figures.
ASSORTED FERNS for jardiniere in fifteen of the leading varieties, good stocky plants, from 2½-inch pots (sample free), at \$3.00 per 100; \$25.00 per 1000. Per 100 Per 1000
Adiantum cuneatum, 4-inch plants, \$15.00 \$140.00
 " " 5-inch plants, 25.00 235.00
 250 at 1000 rate. Telephone Call 29 1.
ANDERSON & CHRISTENSEN, Short Hills, N. J.

CARNATION

President McKinley!

Winner of the \$100 prize at the Kansas City Flower Show in 1901.

First on Vase of 100 dark pink at same show in 1902.

THE flowers average 3 to 3½ inches; compared with the famous Lawson, it is fully as large and more symmetrically formed. The stem longer and fully as strong. It surpasses all varieties in healthfulness and vigor of growth. It is ideal in this respect. Like its parent, Dorothy, it is early and free, as we have been shipping from it continuously since September. It is a favorite with, and much sought after by our customers.

This is what Edwin A. Kanst, one of the awarding judges, said of it:

"President McKinley is a splendid flower, the petals are perfect and it is well built. The color is deeper and brighter than the Lawson and the coloring is more distinct. The peculiar purplish tinge in the Lawson is absent from the President McKinley. It will become a favorite carnation."

READ JOHN THORPE'S LETTER.

Kansas City, Mo., Nov. 26, 1901.
Mr. E. T. Grave, Richmond, Ind.,

Dear Sir:—I desire to inform you of the great keeping qualities of your President McKinley carnation. At the close of the exhibition on Sunday evening most of the flowers were even better than on the first day of exhibit, the color equally as bright and without a trace of purple. It is exceedingly brilliant in artificial light.

Respectfully yours, John Thorpe.

If you wish to keep in line better order some of this stock, and should you see it growing at our place you will want to double your order.

Rooted Cuttings, \$2 per doz.; \$12 per 100; \$100 per 1000.

E. T. GRAVE, Richmond, Ind.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

At Chicago.

The bowlers are still going slow. In the Illinois League the Florist's team has won five games, lost thirty-seven, made a high score of 916 and an average of 514. Joe. Foerster keeps up his good work in the Chicago League, having an average of 199 in thirty games.

At Philadelphia.

Bowling averages for December were as follows:

Yates.....	174	Harris.....	153
Moss.....	165	Polites.....	151
Watson.....	161	Gibson.....	144
Westcott.....	159	Dunlap.....	137
Starkey.....	159	Anderson.....	137
Adelberger.....	153	Falek.....	132
Connor.....	153		

Among the associate members of the club the high man for the month was Dunham, with an average of 174. In the Philadelphia Bowling League championship contest the Florists are now in first place. Six clubs are in the contest this season.

Boston.

MASSACHUSETTS HORTICULTURAL SOCIETY HOLDS FIRST MEETING OF THE YEAR.—STATE OF THE MARKET AND VARIOUS NOTES.

The first meeting of the Massachusetts Horticultural Society for the year 1903 was held on Saturday, January 4. The notification that the committee appointed last summer would bring in a draft of a new constitution and by-laws for the society's consideration resulted in a fairly large attendance. This committee, known as the "compromise committee," had been made up from representatives of the various divisions which have flourished within the organization for some years and the gratifying announcement was made that the proposed new form of government which they presented had been unanimously agreed upon. An equally harmonious spirit pervaded the meeting and the new constitution was adopted, practically as presented, by a unanimous vote. It now lies over for final action at the quarterly meeting in April. The published schedule of prizes for the coming year was ready for distribution. It shows a considerable decrease in the amount appropriated as compared with recent years. The list of lectures, eight in number, for this winter is very disappointing. One subject is "Remunerative Out-door Occupations for Women," another "A Stereopticon Lecture on Southern Trees;" all the rest are purely agricultural; not a practical horticultural paper on the list. In the small exhibition hall was a pretty display of plants from Mrs. J. L. Gardner, comprising *Primula Sinensis*, *P. obconica* and *P. stellata* and *Euphorbia Jacquiniiflora*. George McWilliam showed a seedling, *Cypripedium Hildegardae* Lasell (*C. Schlusingerianum* var. *W. W. Lunt* × *C. Leeannum*). Paintings of two seedling orchids in competition for the special premiums offered therefor were presented by H. T. Clinkaberry and J. E. Rothwell. The former entered *Zygopetalum Roeblingi-*

anum and the latter *Cattleya* × *Rothwelliana* (*C. Bowringiana* × *C. Eldorado*).

Since the holidays the usual weakened demand for bright red carnations has been experienced, with the result that they are abundant in the wholesale establishments and obtainable at rates much lower than the white varieties realize. White is most in demand and when really fine blooms are offered they have no difficulty in finding willing buyers. Roses maintain their position very well since New Years, with the exception American Beauty, which is not only in full supply but averages rather below the standard in quality. Violets are suddenly over-plentiful and a weaker sale is the result. All bulbous material is plentiful.

The proposed meeting to protest against the extortions of the big express companies meets with general approval and a bold stand is advocated. The meeting will be held at the American House on Saturday, January 17, at 9 a.m.

Mrs. W. J. Martin died at her home in Milton on Saturday, January 3, after a long and painful illness.

Denver.

NEW YEAR STARTS OFF WELL.—STOCK NOW PLENTIFUL AND PRICES REASONABLE.—WITH THE BOWLERS.

The condition of the market did not vary much between Christmas and New Years. With good trade stock kept scarce, but, notwithstanding that fact, prices were lowered considerably just after Christmas, which held through New Year's. Trade at the latter day was very good and flowers of all sorts had a pretty good run, with the exception of bulbous stock. Beauties and violets, which were fine, were particularly favored, the best Beauties selling for \$12 per dozen at retail. Beauties were a little scarce, while violets were in good supply. Violet trade was nearly as good as at Christmas, but no doubt the liberal cut in price did that, as only \$2 a hundred was asked at retail. Bridesmaid and Bride, which were of good quality, sold well and were about all closed out. Liberty, as usual, was most in demand but the supply was very small. There has been a lull in trade since the holidays, although there is now and then a good decoration heard of. Consequently stock is loading up and no shortage is noted.

The Florists' Bowling Club journeyed to Boulder on December 29 to play the team of that town and was beaten three straight games, but lays defeat to poor alleys. The club is doing good work in the Commercial League and from a bad start is quickly working its way to the top.

FRANKLIN, PA.—Wm. T. Bell did the decoration for the twenty-fifth anniversary banquet of the Nursery Club at Oil City, December 23.

WEST HAVEN, CONN.—The shed and boiler room connected with the greenhouses of A. J. Thompson were destroyed by fire on the morning of December 29. The greenhouses were saved through energetic work on the part of the firemen.

KENOSHA, WIS.—H. D. Kamp has nearly completed his first year as proprietor of the Kenosha Greenhouses and reports business excellent. He has 20,000 feet of glass and makes a specialty of carnations, shipping a large part of his cut to the Chicago market.

DREER'S
RELIABLE
Flower Seeds



SALVIA "BONFIRE."

Flower Seeds

WHICH SHOULD BE STARTED EARLY.

All new (1902) crop and of the finest possible quality. Our new Wholesale Price List has been issued; a complete list will be found in same. In case you did not receive a copy notify us.

	Trade Pkt. Oz.	
AGERATUM, Blue Perfection, dark.....	.15	\$.50
" Cope's Pet, light.....	.15	.35
ALYSSUM Little Gem, very dwarf.....	.10	.25
" Tom Thumb, compact.....	.10	.20
" Sweet, trailing.....	.10	.15
ASTER Queen of the Market, white, pink, crimson or purple.....	.20	.60
" Queen of the Market, finest mixd.....	.15	.50
BEGONIA semperflorens, mixed.....	.25	.50
BROWALLIA speciosa major.....	.50	
CENTAUREA candidissima.....	.25	1.50
" gymnocarpa.....	.15	.35
CINERARIA maritima.....	.40	.20
COBAEA scandens.....	.10	.30
CYCLAMEN persicum giganteum in separate colors, 75c per 100 seeds; \$6.00 per 1,000 seeds.		
" Finest mixed, 60c per 100 seeds; \$5.00 per 1,000 seeds.		
DAHLIA, new single, Twentieth Century, 17c per pkt.; 5 pkts., 75c; 12 pkts., \$1.75.		
DRACAENA indivisa.....	.10	.30
GREVILLEA robusta.....	.15	.40
HELIOTROPE, Lemoine's Giant.....	.40	2.00
IPOMOEA grandiflora (Moon flower).....	.15	.50
LOBELIA Crystal Palace Compacta.....	.30	1.25
PETUNIA, Dreer's Superb Double Fringed the finest strain of double petunia in the whole world, 500 seeds 75c; 1,000 seeds \$1.50		
PETUNIA, Dreer's Superb Single Fringed.....	.50	
PYRETHRUM aureum (Golden Feather).....	.10	.25
SALVIA splendens (scarlet sage).....	.25	1.00
" Bonfire, dwf. compact.....	.40	2.25
SMILAX..... per pound.....	\$3.50	.10 .30
SULANUM capsicastrum (Jerusalem cherry).....	.10	.30
STOCKS, large flowering 10 week, separate colors.....	.40	2.25
STOCKS, large flowering 10 week, finest mixed.....	.30	2.00
VERBENA, Dreer's Mammoth, separate colors.....	.30	1.50
" Dreer's Mammoth, finest mixed.....	.25	1.00
VINCA rosea, alba and alba pura.....	.15	.50
" " mixed.....	.15	.40

HENRY A. DREER,
714 Chestnut St., Philadelphia, Pa.



AZALEAS.

All the best sorts, such as Bernard Andrea Alba, Deutsche Perle, Vervaeana, Simon Mardner, Mme. Van der Cruyssen, Virginiana, Empress of India, and many others.

PRICE IN ASSORTED LOTS, FOR EARLY ORDERS:
 10 to 12-inch crowns, bushy plants..... \$40.00 per 100
 12 to 14-inch crowns, bushy plants..... 50.00 per 100
 14 to 16-inch crowns, bushy plants..... 60.00 per 100
 16 to 18-inch crowns, bushy plants..... \$12.00 per doz.
 18 to 20-inch crowns, bushy plants..... 25.00 per doz.
 20 to 22-inch crowns, bushy plants..... 30.00 per doz.
 22 to 24-inch crowns, bushy plants..... 36.00 per doz.
 We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

BOSTON FERNS.

Extra choice lot of compact, bushy, pot-grown plants.
 2 1/2-inch pots.....\$5.00 per 100 | 5-inch pans.....\$40.00 per 100
 3-inch pots.....10.00 per 100 | 6-inch pans..... 9.00 per doz.
 4-inch pots.....25.00 per 100 | 7-inch pans..... 12.00 per doz.

VAUGHAN'S SEED STORE, 14 Barclay Street, NEW YORK.
 84-86 Randolph Street, CHICAGO.
 GREENHOUSES, WESTERN SPRINGS, ILL.

KENNICOTT BROS. CO.

Wholesale Florists,

40-42-44 Randolph St.

...CHICAGO.



Order Direct From Headquarters.

A No. 1 DAGGER and FANCY FERN, \$1.50 per 1000. Discount on large orders.

A No. 1 BRONZE and GREEN GALAX, \$1.00 per 1000 in 5000 lots.

LAUREL FESTOONING, good and full, 5c and 6c per yd.

SOUTHERN WILD SMILAX, selected stock, \$4.00 and \$7.00 per case.

GREEN AND SPHAGNUM MOSS, \$1.00 per bbl.

LEUCOTHOE SPRAYS, \$1.00 per 100.

We guarantee all our stock to be first-class. Orders by mail, telephone or telegraph will receive our personal and prompt attention. We can fill orders in any quantity on short notice.

HENRY M. ROBINSON & CO.

32-34-36 Court Sq., Boston, Mass.

L. D. Telephone 2618 Main.

Please mention the American Florist when writing.

Galax AND Leucothoes.

Selected, Bright and Brilliant.
 Wholesale Trade Solicited.....

J. L. BANNER & CO., Montezuma, N. C.

Please mention the American Florist when writing.

GALAX LEAVES AND Leucothoe Sprays.

J. G. LOVEN, MONTEZUMA, N. C.

FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)

Write, Wire or Phone the Introducers,

Caldwell The Woodsman Co., Evergreen, Ala.

or their agents: L. J. Kreshover, New York; J. B. Deamud, Chicago; H. Bayersdorfer & Co., Philadelphia; W. F. Kasting, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.

Carnation Cuttings.

WELL ROOTED, CLEAN, HEALTHY STOCK.

	Per 100	Per 1000		Per 100	Per 1000
Flora Hill.....	\$1.50	\$12.50	Mrs. Lawson	\$1.50	\$12.50
White Cloud.....	1.50	12.50	America.....	1.50	12.50
Norway.....	1.50	12.50	Marquis.....	1.50	12.50

Guardian Angel (The Sport), per 100, \$1.50; per 1000, \$12.50.

2 1/2-INCH ROSE STOCK.

Strong, healthy plants, for early benching.

	Per 100	Per 1000		Per 100	Per 1000
La France.....	\$4.00	\$35.00	Bride.....	\$3.00	\$25.00
Kaiserin.....	3.50	30.00	Bridesmaid.....	3.00	25.00
Ivory.....	4.00	35.00	Meteor.....	2.50	20.00

All cuttings and plants sold with the express condition that if not satisfactory when received they are to be returned immediately, when money will be refunded.

WIETOR BROS., 51 Wabash Ave., Chicago.

Please mention the American Florist when writing.

MURPHY'S WHITE Carnation

Is proving itself a paying commercial white. Was in full crop for the holidays, has been in continuous crop since August. We do not claim a fancy, but the best paying white on our market today, as a keeper, as a producer, seller and shipper. It is all we claim for it. We are booking orders now for February 1 to 15 delivery. First-class cuttings and satisfaction guaranteed or money refunded. Place your orders with S. S. Skidelsky, traveling salesman, or J. Gummage & Sons, Canadian agent, or send direct.

\$6.00 per 100; \$5.00 per 1000; \$46.00 per 1000 in 5,000 lots; \$40.00 per 1000 in 10,000 lots.

WM. MURPHY, Wholesale Carnation Grower.
 130 E. Third Street, CINCINNATI.

Please mention the American Florist when writing.

CARNATIONS

ROOTED CUTTINGS.

NOW READY Ethel Crocker, Crossbrook, Caloty, Enquirer, Morning Glory.....

February and March Delivery Queen Louise, Allie, Apo 5, Her Majesty, Adonis, Prosperity, Roosevelt, Mrs. Higginbotham and Mrs. E. A. Nelson

Send a list of what you want stating number of each variety and when they are to be delivered.

ALBERT M. HERR, LANCASTER, PA.

Please mention the American Florist when writing.

Montreal.

SEASON ONE OF COMPLETE SATISFACTION.—FLOWERING PLANTS WELL SOLD OUT.—SEVERE WEATHER BRINGS DIFFICULTIES AND LOSS.—VARIOUS NOTES.

Trade is reported fully as good as last year, perhaps a little better. Gloire de Lorraine begonia was the leading holiday plant and brought from \$1.50 to \$5 each. Azaleas sold for from \$1.50 to \$12 each, poinsettias from \$1 up and cyclamens from \$1 to \$6. Solanums were over-abundant and sold for from 50 cents up. Palms, Boston ferns, rubbers and English holly were well cleaned out. The prices of cut flowers were higher than last year for roses were not abundant. Some chrysanthemums held back for Christmas were sold without trouble at \$2.50 a dozen. Violets were not plentiful.

Hall & Robinson sold out of Gloire de Lorraine, cyclamens, solanums, primulas and azaleas at the holidays and P. McKenna & Son also cleared their benches. S. S. Bain had the most elaborate Christmas window. His holly trees attracted great attention and he had also the finest cut of roses in this city.

Jos. Bennett was second to none for azaleas this year and on cut flowers he is credited with getting the highest prices obtained in this city.

C. Campbell is trying hard to have the best window in this city. He sustained a loss of stock in the severe weather we have had lately.

Louis Hertz lost a good deal of his stock of plants in a recent cold spell.

L. H. Gould has been doing an immense trade in cut flowers.

Wilshire Brothers report a satisfactory Christmas trade. G. V.

FALL RIVER, MASS.—Seth A. Borden has just completed two fine greenhouses and will soon be ready for business.

LAWRENCE, MASS.—Charles Thornton, of Thornton Bros., has been seriously ill for a number of weeks but is now improving in health rapidly.

Fine Grafted ORANGES Bearing Sizes.
Per 100
12 inch, bushy, from 4-inch pots.....\$20 00
15-18 inch, bushy, from 4-inch pots..... 30 00

Kin Kans 10-12 in., bushy, from 4-in. pots 20 00
15-18 in., bushy, from 4-in. pots 30 00

Lemons 12-15 in., bushy, from 4-in. pots... 20 00
18-24 in., bushy, from 4-in. pots 30 00

Roses Climbing Clothilde Soupert, strong field-grown..... 10 00
Crinsou Rambler, stg. field-grown 7 00

Clematis Apifolia A fine variety, somewhat similar to C. Paniculata, but blooms earlier and lasts longer; strong plants from 3-inch pots... 8 00
(Not less than 40 of a class at 100 rate.)

Citrus Trifoliata (Best defensive hedge plant.) Per 1000
Strong, 2 year old, field-grown.....\$15 00
Strong, 3 year old, field-grown..... 20 00

Amoor River Privet (Better than California Privet.)
18-24 inch, branched..... 15 00
24-36 inch, branched..... 20 00
Not less than 400 of a class at these rates.

Rubbers, Kentias, Phoenix, Latanias, Pandanus, Ornamental Trees and Shrubs in large quantities.

WRITE FOR CATALOGUE.....

P. J. BERCKMANS CO., (Inc.)
FRUITLAND NURSERIES,
Established 1856. AUGUSTA, GA.
Please mention the American Florist when writing.

CARNATIONS

Well Rooted Cuttings Now Ready.

PINK.		RED.		
	Per 100	Per 1000	Per 100	Per 1000
Lawson.....	\$2.00	\$15.00	Estelle.....	\$4.00 \$30.00
Enchantress.....	12.00	100.00	Adonis.....	14.00 120.00
Guardian Angel.....	1.25	10.00	Harlowarden.....	12.00 100.00
Dorothy.....	1.25	10.00	Crane.....	2.00 15.00
Joost.....	1.25	10.00	America.....	1.25 10.00
Genevieve Lord.....	1.25	10.00	Palmer.....	4.00 30.00
Nelson.....	4.00	30.00	Roosevelt.....	1.25 10.00
Cressbrook.....	4.00	30.00	Mrs. L. Ine.....	1.25 10.00
Triumph.....	1.25	10.00	Chicago (Red Bradt).....	2.00 15.00
Marquis.....	1.25	10.00		
Higinbotham.....	5.00	40.00	WHITE.	Per 100 Per 1000
Morning Glory.....	2.00	15.00	Flora Hill.....	\$1.25 \$10.00
			Queen Louise.....	2.00 15.00
			Peru.....	1.25 10.00
VARIEGATED.	Per 100 Per 1000		White Cloud.....	1.25 10.00
Bradt.....	\$2.00 \$15.00		Murphy's White.....	6.00 50.00
Prosperity.....	2.00 15.00		Norway.....	1.25 10.00
Gaiety.....	2.00 15.00		Bon Homme Richard.....	1.25 10.00
Armazindy.....	1.25 10.00		Hoosier Maid.....	1.25 10.00

ROSES.

Well rooted cuttings, strong and healthy.

BRIDE.....	\$1.50 per hundred;	\$12.50 per thousand
BRIDESMAID.....	1.50 per hundred;	12.50 per thousand
PERLE.....	1.50 per hundred;	12.50 per thousand
GOLDEN GATE.....	1.50 per hundred;	12.50 per thousand
IVORY.....	3.00 per hundred;	25.00 per thousand

All stock sold under express condition that if not satisfactory it is to be returned immediately when money will be refunded.

Peter Reinberg,
51 Wabash Ave.,CHICAGO.

Rooted Carnation Cuttings

NOW READY.

Per 100 Per 1000		Per 100 Per 1000	
Alba, white.....	\$4.00 \$35.00	Chicot, white.....	\$3.00 \$25.00
Golden Beauty, yellow.....	4.00 35.00	Gov. Roosevelt, maroon.....	2.50 20.00
Cressbrook, white.....	4.00 35.00	Prosperity, white—splashed pink.....	2.50 20.00
Mrs. Palmer, scarlet.....	4.00 35.00	Norway, white.....	2.00 15.00
Mrs. Higinbotham, light pink.....	4.00 35.00	Lawson, pink.....	2.00 15.00
J. H. Manley, scarlet.....	4.00 35.00	Morning Glory, shell pink.....	2.00 15.00
Viola Allen, variegated.....	4.00 35.00	Queen Louise, white.....	2.00 15.00
Gaiety, fine variegated.....	4.00 35.00	Crane, scarlet.....	1.00 10.00
Harry Fenn, crimson.....	4.00 35.00	Mermaid, salmon, fine.....	1.00 10.00
Apollo, scarlet.....	4.00 35.00	Armazindy, variegated.....	1.00 10.00
Dorothy Whitney, yellow.....	4.50 40.00	Eldorado, yellow.....	1.00 10.00
Mrs. Joost, pink.....	1.00 10.00		

UNROOTED CUTTINGS AT HALF ABOVE PRICES.

TERMS CASH. We prepay express charges. If plants are not satisfactory, on arrival, return at once and we will pay return charges and refund your money. Our cuttings are grown OUT DOORS and rooted WITHOUT HEAT and are therefore strong and hardy and free from disease. SEND US ONE DOLLAR and we will mail you SAMPLES at HUNDRED RATES. Orders booked for future delivery.

Giant Flowering Pansy Plants, mixed, \$3.00 per 1000.

Marie Louise Violets, \$3.00 per 100; \$25.00 per 1000.

ALL CHARGES PREPAID.

LOOMIS FLORAL CO., Loomis, Cal.

ENCHANTRESS

THE GOLD MEDAL WINNER, having defeated all comers at Madison Square Garden and at Kansas City, now reigns supreme.

Having ordered a large quantity, I am still in a position to book orders for February delivery. Don't delay if you want any.

MRS. E. A. NELSON Has proved all we claimed for it—being free and continuous and ahead of its rivals in pink.

Cuttings guaranteed to be absolutely strong and healthy. January and February delivery.

PRICE, \$6 PER 100; \$50 PER 1000.

S. S. SKIDELSKY, 708 N. 16th St., Philadelphia, Pa.

Please mention the American Florist when writing.

FINE, COOL GROWN FERNS ONE CENT.

Pteris Tremula, P. Hastata; Onychium, Gymnogramma, Lygodium, Polypodium, Adiantum, P. Sulcata, Selaginella, Nephrolepis, etc. Transplanted singly in cool frames, good stock and liberal count. Mail orders our specialty. \$1.25 per 100, postpaid. Per 1000, \$10.00.

CLARK & LEY, THUNDERBOLT FERNERIES, SAVANNAH, GA.



CARNATION PRESIDENT MCKINLEY

ROOTED CUTTINGS Roses AND Carnations.

Our Cuttings are all selected for strength and health. There is no floor stock grown. The roses are all from grafted stock, except the Perles and Meteors.

ROSES

KAISERINS.....	per 100	\$2.50	BRIDESMAIDS.....	per 100	\$1.50
PERLES.....	"	2.50	METEORS.....	"	1.50
BRIDES.....	"	1.50	GOLDEN GATES.....	"	1.50

CARNATIONS

White.		Per 100	Pink.		Per 100
WHITE CLOUD.....		1.50	LAWSON.....		\$ 2.00
FLORA HILL.....		1.50	MARQUIS.....		1.50
GOV. WOLCOTT.....		5.00	MORNING GLORY.....		2.00
NORWAY.....		2.00	CRESSBROOK.....		4.00
LILLIAN POND.....		10.00	FLORIANA.....		4.00
WHITE BRADT.....		12.00	ENCHANTRESS.....		12.00
Red.			Striped.		
CRANE.....		2.00	GAIETY.....		4.00
AMERICA.....		1.50	PROSPERITY.....		3.00
ADONIS.....		14.00	Maroon.		
			MACEO.....		1.50
			ROOSEVELT.....		2.00

No order for less than 50 of one variety filled at these prices. We will have a very fine stock of grafted Brides and Bridesmaids, ready April 1st, at \$10.00 per 100. All cuttings and plants shipped from Hinsdale.

BASSETT & WASHBURN,

Store, 76 Wabash Ave., CHICAGO. Greenhouses, Hinsdale, Ill.

Miss Louise Faber

The Longest Stemmed
and Most Fragrant
Carnation in Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink shade, similar to a well colored Bridesmaid rose and average 3 to 3½ INCHES. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for FEBRUARY delivery from now on.

FICK & FABER, SAN MATEO, CAL.

Carnation Cuttings

We are now booking orders for rooted cuttings. List of varieties and prices sent on application.

The Cottage Gardens, Queens, L. I.

ALWAYS A WINNER.

Gov. Wolcott Carnation

	Per 100	Per 1000
3000 stock plants in perfect condition	\$5.00	\$45.00
BOSTON MARKET, white.....	5.00	40.00
LAWSON.....	4.00	30.00
Henry A. Stevens Co., East St., Dedham, Mass.		

All The Best CARNATIONS

The Leading Novelties of 1903.
The Best Varieties of 1902.
All the Standard Varieties.
Order your Rooted Cuttings NOW.
GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

Carnation Cuttings NOW READY.

WE can ship at once well-rooted cuttings of the following varieties, free from disease and first-class in every respect. NONE BETTER and seldom equaled.

WRITE FOR QUOTATIONS AND CATALOGUE.

Mrs. Thos. W. Lawson	Golden Beauty	Gov. Roosevelt
Gov. Wolcott	Apollo	Harry Fenn
E. A. Nelson	Morning Glory	Dorothy Whitney
Estelle	Queen Louise	Prosperity
White Cloud	Stella	Guardian Angel
Mrs. Potter Palmer	Lorna	Mrs. Higinbotham
Gaiety, Viola Allen	J. H. Manley	Dorothy
Adonis, Lillian Pond	Joost, Enquirer	Marquis, Cressbrook
President McKinley	Mrs. Theo. Roosevelt	Crane, Tiger

J. D. Thompson Carnation Co.
JOLIET, ILLINOIS.

Please mention the American Florist when writing.

The Best White Carnation to Date

The Queen

Reaches highest standard in size, form, calyx, stem, productiveness and keeping quality. A sure winner where ever shown. Price per 100, \$10.00; 250, \$22.50; 500, \$37.50; 1000, \$75.00.
Little South Floral Co., So. Natick, Mass. S. J. Goddard, Framingham, Mass.

Minneapolis.

BUSINESS CONTINUES BRISK AND ALL STOCK CLEANS UP WELL.—PRICES STILL HIGH.—LOCAL NOTES.

Trade has shown no increase since the holidays but still there is a scarcity of stock, especially roses. Funeral trade last week was very heavy and is one cause of there being no let-up in business. Carnations are bringing from \$4 to \$5, tea roses \$6 to \$10, Romans \$3 and violets \$2 per hundred. American Beauties are hardly to be had and prices range high. Stock in roses does not appear to be of an extra good quality, stems weak and color off, caused by the incessant dark weather.

A. S. Swanson has had a beautiful display of araucarias, palms and Boston ferns, together with large baskets of Roman hyacinths tastily arranged.

From the outlook in the coal question there will be good stiff prices on all kinds of flowers this year, as the cost of production is much higher.

The Tribune recently published a very entertaining story by R. J. Mendenhall, treating of the pioneer days of floriculture in Minneapolis.

E. Nagel & Company had a large and attractive lot of azaleas, which found ready sale for the holidays.

C. F. R.

Albany, N. Y.

HOLIDAY TRADE DOES NOT MAKE NEW MARK.—GROWER CUTTING FROM NEW RANGE.

Christmas and New Year's trade in this section, as reported by most of the dealers, was no better than last year and in some instances was a little less. The convening of the state legislature on Wednesday of this week distributed a goodly number of orders among the local florists.

Fred. A. Danker, of Maiden Lane, has begun to cut from four new houses erected in September by the Lord & Burnham Company. One house is 22x100 and three 18x100. Mr. Danker has filled them with a miscellaneous stock suitable for the needs of a retail trade.

R. D.

CARNATIONS

Rooted Cuttings

	Per 100	Per 1000
CRESSBROOK.....	\$5.00	\$40.00
CHALLENGER.....	5.00	40.00
FAIR MAID.....	6.00	50.00

500 at 1000 rates.

Other varieties, prices on application.

C. Warburton, FALL RIVER, MASS.

Please mention the American Florist when writing.

"SUCCESS" NEW CARNATION

Color, light pink, shade of La France rose, without a trace of blue or purple. Strong, rapid growing plants producing tremendous crops of large, well formed, stiff stemmed flowers. An unequalled summer bloomer.

Rooted Cuttings, \$1.50 per dozen; \$2.50 per 25; \$8.00 per 100; \$70.00 per 1000.

Terms, Cash with order from unknown parties.

JOHN G. SHOLL, BURLINGTON, N. J.

DEPT. C.

For Sale also by HENRY F. MICHELL, Philadelphia.

CHICAGO CARNATION CO.,

JOLIET, ILL.

PRICE LIST OF NEW VARIETIES.

ROOTED CUTTINGS.

	PER 100	PER 1000
HARLOWARDEN, Crimson.....	\$12.00	\$100.00
MARSHALL FIELD, Variegated.....	12.00	100.00
HER MAJESTY, White.....	10.00	80.00
ADONIS, Scarlet, (Hill).....	14.00	120.00
PRES. MCKINLEY, Cerise, (Grave).....	12.00	100.00
MURPHY'S WHITE, (Murphy).....	6.00	50.00
LILLIAN POND, White (Reuter).....	10.00	75.00
PENELOPE, White. (Dorner).....	5.00	40.00
SIBYL, Cerise, (Dorner).....	12.00	100.00

Standard Varieties.

	Per 100	Per 1000
MRS. HIGINBOTHAM, the best and most profitable pink.....	\$5.00	\$45.00
MRS. E. A. NELSON, beautiful, large clear pink, strong stem, gaining more admirers every day.....	6.00	50.00
CRESSBROOK, pink, a shade darker than Nelson.....	5.00	40.00
GOV. WOLCOTT, white, strong stem, fine form, good keeper.....	5.00	40.00
QUEEN LOUISE, white, very free.....	3.00	25.00
LORNA, white, largest and one of the best.....	3.00	25.00
NORWAY, white, large, best stem and best keeper.....	2.00	15.00
MRS. POTTER PALMER, scarlet, the best we ever grew.....	5.00	45.00
ESTELLE, scarlet, ideal color, free and grown more than any other... ..	4.00	30.00
PROSPERITY, the largest and most fancy variety of all.....	2.50	20.00
GAITY, variegated.....	5.00	40.00

To give satisfaction is our aim. Write for the best Illustrated Carnation Catalogue ever published.

Rooted Cuttings.

ROSES.

	Per 100	Per 1000		Per 100	Per 1000
BRIDESMAID.....	\$1.50	\$12.50	GOLDEN GATE.....	\$1.50	\$12.50
BRIDE.....	1.50	12.50	HELEN GOULD.....	2.50	20.00
PERLE.....	1.50	12.50	OLIVER AMES.....	2.50	20.00

CARNATIONS.

Variegated.		Per 100	Per 1000	White.		Per 100	Per 1000
PROSPERITY.....	\$1.50	\$12.00	QUEEN LOUISE.....	\$2.25	\$15.00		
GAITY.....	1.50	12.00	FLORA HILL.....	1.25	10.00		
Pink.			WHITE CLOUD.....	1.25	10.00		
ENCHANTRESS.....	12.00	100.00	NORWAY.....	1.25	10.00		
LAWSON.....	2.00	15.00	Red.				
DOROTHY.....	2.00	15.00	ADONIS.....	14.00	120.00		
GUARDIAN ANGEL.....	1.25	10.00	PALMER.....	4.00	30.00		
ETHEL CROCKER.....	1.25	10.00	AMERICA.....	1.50	12.00		
MRS. JOOST.....	1.00	8.00	CRANE.....	1.50	12.00		
MARQUIS.....	1.00	8.00					

All clean, healthy stock and well rooted. Unrooted cuttings at one-half of above prices.

GEO. REINBERG, 51 Wabash Ave., CHICAGO.

LILLIAN POND A Large and Fancy White.

Unlike most fancies it is free and continuous. Starts in to bloom early, sending out large flowers on long stems. It is a strictly fancy flower at all times and commands top notch prices. Order at once and you will not regret it. PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00. Orders booked for February delivery.

S. J. REUTER, WESTERLY, R. I.

Dreer's Summer Flowering Bulbs



TUBEROUS ROOTED BEGONIAS.—Single Flowered.

White, Crimson, Scarlet, Pink, White and Yellow, 40c per doz.; \$3 per 100; \$25 per 1000. Choicest singles in mixture, 35c per doz.; \$2.50 per 100; \$22.00 per 1000.

TUBEROUS ROOTED BEGONIAS.—Double Flowering.

Scarlet, Rose, White and Yellow, 65c per doz.; \$5 per 100; \$40 per 1000. Choicest doubles in mixture, 50c per doz.; \$4 per 100; \$35 per 1000.

NEW FRILLED TUBEROUS BEGONIAS.

A grand new variety fringed like a single Petunia, choicest mixture, 25c each; \$2.50 per doz.; \$20 per 100.

BEDDING TUBEROUS BEGONIA, DUKE ZEPPELIN.

This is the intensely bright scarlet, small double flowered that attracted so much attention at the Pan-American Exhibition. Fine strong bulbs, 20c each; \$2 per doz.; \$15 per 100.

GLOXINIA CRASSIFOLIA GRANDIFLORA.

A choice selected strain, strong, well matured bulbs, Red, White and Blue in separate colors or in choicest mixture, 50c per doz.; \$4 per 100; \$35 per 1000.

FANCY LEAVED CALADIUMS.

A choice collection of 25 varieties, \$1.25 per doz.; \$10 per 100. Choice Mixed Varieties, \$1 per doz.; \$8 per 100.

TIGRIDIAS.

Conchiflora, Grandiflora Alba, Pavonia Grandiflora, 30c per doz.; \$2 per 100; \$15 per 1000.

MONTBRETIAS.

Six choice varieties, 25c per doz.; \$1.75 per 100; \$12.50 per 1000.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

Carnation Gov. Lowndes.

Color, pure white. Size, 3 to 3½ inches in diameter. Calyx, spreading at the top, making it practically non-bursting. Form, the lower or guard petals stand out straight, retaining the full size of bloom. Petals slightly serrated, and beautifully arranged, forming a full, rounded center. Odor, is very sweet and particularly pleasing. Stem, 19 inches to 2½ feet during the season, and always strong enough to carry the large flower erect. Habit, strong and vigorous; thrives well and grows rapidly. Transplants readily and comes into bloom early, and is not a cropper. It will stand closer planting than most varieties. Productiveness, extremely free flowering. More productive than any other large white. A profitable and high grade commercial variety. Price, \$2.50 per doz.; \$12 per 100; \$100 per 1000. 50 at 100 rate; 500 at 1000 rate.

H WEBER & SONS, OAKLAND, MD.

Please mention the American Florist when writing.

Pansy Plants.

	Per 100
Large flowering	\$2.50 per 1000, \$.50
CHINESE PRIMROSES	1.50
ASP. SPRENGER, 2½-inch pots	2.00
GERANIUMS, 10 varieties, 2-inch pots	2.50
VINCA VINES, variegated, 3-inch pots	4.00
CANVA BULBS, 10 varieties, dry	3.00
100 CINERARIAS, 3-inch pots	6.00

CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

Please mention the American Florist when writing.

THE NEW FERN

Anna Foster

Unqualified success. Quick seller. Very prolific at 2½-in. \$10; 3-in. \$20; 4-in. \$35; 5-in. \$50 per 100. Larger plants, prices on application.

KENTIA PALMS, \$50, \$75 and \$100 per 100.

RUBBERS, 5-in. pots, 18 inches high, \$4 per doz.

L. H. FOSTER, 45 King Street, Dorchester, Mass.

Please mention the American Florist when writing.

GARDENING

This is the paper to recommend to your customers, the leading horticultural journal in America for amateurs

\$2.00 Per Year. Sample Copies Free.

Liberal terms to florists who take subscriptions.

THE GARDENING CO. MONON BUILDING, Chicago, Ill., U.S.A.

CARNATIONS.

350,000 Well Rooted Cuttings NOW READY.

	Doz.	100	1000		Doz.	100	1000
Gov. Wolcott, white	.60	\$4.00	\$35.00	Norway, white	\$.30	\$1.00	\$10.00
Alba, white	.60	4.00	35.00	Lonia, white	.30	1.00	10.00
Golden Beauty, yellow	.64	4.00	35.00	Gold Nugget, yellow	.30	2.00	15.00
Violania, variegated, very nice	1.25	9.00	75.00	Lawson, pink	.30	2.00	15.00
Mrs. Palmer, scarlet	.60	4.00	25.00	Bon H. Richard, white	.30	2.00	15.00
Mrs. Higginbotham, light pink	.61	4.00	35.00	Egypt, maroon	.30	1.00	10.00
J. H. Manley, scarlet	.60	4.00	35.00	Queen Louise, white	.30	2.00	15.00
Gaiety, fine variegated	.60	4.00	35.00	Crane, scarlet	.15	1.00	10.00
Harry Penn, crimson	.60	4.00	35.00	Genevieve Lord, light pink	.15	1.00	8.00
Dorothy Whitney, yellow	.65	4.50	40.00	Evanston, red	.15	1.00	8.00
Stella, Dorner's variegated	.60	4.00	35.00	Tidal Wave, pink	.15	1.00	8.00
Corbett, salmon	.40	3.00	25.00	Joost, pink	.15	1.00	10.00
Dorothy, pink	.40	1.50	10.00	Mornaid, salmon, fine	.15	1.00	7.00
Chicot, white	.50	3.00	25.00	Portia, scarlet	.15	1.00	10.00
Gov. Roosevelt, maroon	.35	2.00	15.00	Wm Scott, pink	.15	1.00	7.00
Prosperity, white splashed pink	.35	2.50	20.00	Argyle, pink	.15	1.00	10.00
				Eldorado, yellow	.15	1.00	7.00
				Gen. Maeco, maroon	.15	1.00	10.00

Write for prices on large quantities, 6 at 12 Rates; 25 at 100 Rates; 250 at 1,000 Rates.

Terms Spot Cash, prepaid to your city at above prices.

All rooted cuttings sold under express condition that if not satisfactory on arrival, return immediately, when money will be refunded.

CALIFORNIA CARNATION CO.,
Loomis, California.

Tiger, Orange, Striped Pink. A beautiful flower. We have grown it for five years; 12 rooted cuttings (6 blooms 50c prepaid), ready now; 12 rooted cuttings for \$1.50; \$10.00 per 100; \$75.00 per 1000.
ENCHANTRESS, ready now, 12 for \$3.00; \$12.00 per 100.
LAWSON, ready now, \$3.00 per 100.

Every cutting guaranteed

HENRY EICHHOLZ, Waynesboro, Pa.

Carnations ROOTED CUTTINGS.
Cannas ALL THE LEADING VARIETIES.

Write for prices, which are right.

W. W. COLES, Kokomo, Ind.

CARNATIONS

Rooted Cuttings of the 1902 varieties less than market price during January, for want of room. All healthy plants.

PLEASE SEND FOR PRICE LIST

Michael Winandy, 406 Devon Ave., CHICAGO.

MRS. FISHER CARNATIONS
FOR SUMMER BLOOMING.

Some Fine Plants in 2-inch Pots.

BOSTON FERNS, 2, 3, 4, 5, 6, 7, 8 and 10-inch Plumosus and Sprenger. Geraniums, all colors in 2½-inch pots. Write.

GEO. A. KUHL, Pekin, Ill.

St. Paul.

NEW YEAR'S BUSINESS FULLY AS SATISFACTORY AS CHRISTMAS.—STOCK PLENTIFUL.—NOTES OF DOINGS OF THE GROWERS.

New Year's trade was very good. Stock was more plentiful than at Christmas and, while the volume of business was much smaller, it was also more satisfactory. Prices were slightly lower than the week before. Beauties, Meteors, Liberty, carnations and violets were in greatest demand, there being enough for all orders except violets. Trade since has been fairly good though of course there is always a week or two of dullness succeeding a holiday.

Holm & Olsen's new houses are well filled with a good assortment of palms, ferns, azaleas, lilies and other bulbous stock. Poinsettias and azaleas were very fine at Christmas and sold well. Young ferns from seed are in prime condition. Ludwig Anderson is in charge here. The houses, three in number, 20x100, are models of construction. A great deal of trouble is had with water flowing into the boiler pit, which was dug out of solid rock and is without sewer connections.

W. F. Lemke, who succeeded Ed. Behrens, reports New Year's trade ahead of Christmas. He has a good location, in the best residence district of the city and he has given an air of thrift to the establishment.

Christ. Bussjaeger, who lost two dozen palms in one of the churches at Christmas time, settled the case with the church people for \$60.

Gust. Calberg is on the sick list this week. FELIX.

PORTSMOUTH, N. H.—It is understood that the beautiful estate of the late Frank Jones is to be cut up into parcels and the conservatories, with their fine collection of plants, discontinued.

OCEAN PARK, CAL.—E. J. Vawter, whose business is incorporated as the Ocean Park Floral Company, paid up capital \$6,000, has 1,000 square feet of glass and ten acres of land on which he grows carnations for the wholesale market and for his store in Los Angeles. He reports a good season.

PRELIMINARY LIST OF

New Chrysanthemums

and other **NOVELTIES**

NOW READY.

Will be pleased to mail to those interested.

Nathan Smith & Son
ADRIAN, MICH.

Mum Stock Plants

Robinson, Merry Xmas, Wanamaker, Monrovia, Bassett, Lincoln, Whilldin, Murdock, Kalb, Bonaffon, Childs, Halliday, Appleton, Sunderbruch, Perrin, Pacific. \$1.00 per 100.

Eaton and Chadwick, \$6.00 per 100.

JOHN BROD, 349 W. North Ave., CHICAGO.

Giant Pansies In cool Greenhouse.

\$2.50 per Thousand. Cash.

BYER BROS., Chambersburg, Pa.



"Thoroughbreds"

American Beauty
ROOTED CUTTINGS

\$30 PER THOUSAND is our price on immediate orders.

Delivery February and March.

Rooted cuttings other Roses, too.

HELLER BROS.

(South Park Floral Co.) **New Castle, Ind.**

YELLOW EATON

GOOD JUDGES pronounce it the most valuable commercial Chrysanthemum to be introduced in the spring of 1903. Its color captivates everybody and it has all the other good qualities of Timothy Eaton, without the coarseness sometimes attributed to that variety. \$5.00 per doz; \$30 per 100. Delivery of young stock, March 1, 1903.

ROBERT CRAIG & SON, Market and 49th Streets, PHILADELPHIA, PA.

White CARNATION MARIAN

Just as good to ship as it is to keep at home. Rooted cuttings, \$5.50 per 100; \$45.00 per 1000. Delivery after Jan. 15.

Pips of DORA, any time, \$2.00 per 100. Cash with Order.

ISAAC A. PASSMORE, West Chester, Pa.

ROOTED CUTTINGS and 2-IN. ROSES.

- | | |
|-------------|-----------------|
| METEORS | LIBERTY |
| BRIDES | GOLDEN GATE |
| BRIDESMAIDS | LA FRANCE |
| KAISERIN | BELLE SIEBRECHT |
| PERLES | IVORY |
| BEAUTIES | |

Don't forget to try Ivory, it is a money maker.

Write **GEO. A. KUHL,** Pekin, Ill.

HERRON...

Carnation Grower,

OLEAN, N. Y.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

CHRYSANTHEMUMS Large Strong Stock Plants from Bench.

Bentley, 35c each; \$3.00 per doz. C. Holst, 25c each; \$2.00 per doz. Homesty, 25c each; \$2.00 per doz. Prosperity, 25c each; \$2.00 per doz. Providence, 25c each; \$2.00 per doz. T. Eaton, Appleton, Maud Dean, Childs, Mrs. Chamberlain, Liberty, Chadwick, Orizaba, Lady Roberts, Golden Wedding, Golden Beauty, Bruant, \$1.50 per doz.; \$8.00 per 100. Mrs. E. D. Smith, White Bonaffon, R. H. Pearson, Bergmann, Willowbrook, Ivory, October Sunshine, Merry Monarch, The Queen, Mrs. J. Jones, Bonaffon, Lucie Faure, Niveus, Eclipse, \$1.00 per doz.; \$6.00 per 100. 6 plants of one variety at doz. rate; 25 at 100 rate.

H. WEBER & SONS, OAKLAND, MD.

Please mention the American Florist when writing.

GERANIUMS Rooted Cuttings

HETERANTHE	Big	100	\$10.00
BUCHNER	lot	1.25	10.00
VIAUD	now	2.00	15.00
CASTELLANE	ready	2.00	15.00
PERKINS		2.00	15.00
POITEVINE		2.00	15.00
LANDRY		2.00	15.00
RICCARD		2.00	15.00
S. A. NUTT		1.25	10.00

ACTEON, LA FAVORITE, LA PILOT, BON- NOT AND CASTRIS, \$1.50 per 100.

ALBERT M. HERR, LANCASTER, PA.

Please mention the American Florist when writing.

Washington.

TRADE ACTIVE.—SOCIAL AFFAIRS NUMEROUS.—GOOD FORCED LILACS.—NOTES.

New Year's retail trade was good in cut flowers. Carnations, violets and roses were in demand. The White House reception has started the ball rolling and quite a number of small social affairs have taken place. Violets are somewhat scarce on account of the continued cloudy weather. Other stock is falling back a little also.

A. Gude & Brother have an extra fine lot of white lilacs, stocky plants covered with bloom and taking well. On December 31 Wm. F. Gude was elected illustrious potentate of Almas Temple of the Mystic Shrine.

Fred. Miller has left the hospital, where he has been for some time with typhoid fever, but is still confined to his room.

Visitors: Charles F. Meyer, New York; Wm. J. Boas, Philadelphia. P. G.

GIBSON CITY, ILL.—Swan Peterson is having a good season. His range now covers 100,000 square feet. Carnations are the specialty.

SENECA, KAN.—Henry R. Brown proposes to this spring remove his establishment to the main street, rebuild his houses and add about 1,000 feet more glass.

VERBENA KING.

HEADQUARTERS for VERBENAS.



As we grow more than anybody. (the world beater), 45 of the best select **Mammeth** named vars. 60c per 100, \$5.00 per 1000; 50 0 for \$23.00; 10,000 for \$40.00.

Heliotropes, ten best named vars. \$1.00 per 100, \$8.00 per 10 0.

Daisies, 4 of the winning varieties, named. \$1.00 per 100, \$8.00 per 1000.

Colons, 30 of the most popular named varieties, and they are good ones, 70c per 100, \$6.00 per 1000.

Pelunias, (Kansas) Double White; this is a grand bloomer and a very strong grower; a good one, \$1.25 per 100, \$10.00 per 1000.

Ageratums, the only 4 varieties: Stella Gurney, Princess Pauline, Copes Pet, and Lady Isabel, the grand white one, 60c per 100, \$5.00 per 1000.

Salvias, 4 of the best select named varieties; they are winners, \$1.00 per 100, \$8.00 per 1000.

EXPRESS PREPAID.

Satisfaction and safe arrival guaranteed in every respect.

THAT CASH OR C. O. D., PLEASE.

List ready Jan. 1st.

C. HUMFELD.

The Rooted Cutting Specialist.. CLAY CENTER, KAN.

IMPATIENS ... THE QUEEN

Fine 2-in. Pot Plants, \$1.25 per doz; \$8 per 100

ASPARAGUS SPRENGERI

From 5-in. Pots, Strong, \$1.50 per doz. \$10 per 100.

BEGONIA REX

12 vars., 2-in., 60c per doz; \$4 per 100.

ROOTED CUTTINGS Send for List... **...FINE STOCK**

CENTRAL MICHIGAN NURSERY, Kalamazoo, Mich.

PANSIES The Jennings Strain.

Small plants, \$4.00 per 1000, by express. Large plants, ready to bloom, \$1.00 per 100; \$8.00 per 1000. Seed, \$1 pkt.; \$5 per oz. Cash with order. **E. B. JENNINGS,** Lock Box 254, Southport, Conn. Grower of the Finest Pansies.



BOSTON FERNS ASPARAGUS PLUMOSUS NANUS,

5-in. pots, \$3.00 per doz.
6-in. pots, 5.00 per doz.
8-in. strong 6.00 per doz.
7-in. pots, 7.20 per doz.

FERN BALLS furnished with leaves, \$5.00 per doz.
FERNS FOR DISHES

2-in. pots, good varieties, assorted, \$3.00 per 100.
WRITE FOR LIST.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

B. & A. SPECIALTIES AZALEAS We have 10,000 from which to select your stock. Place orders at once.

RHODODENDRONS for forcing. Finest stock ever imported. Write for prices.

BOBBINK & ATKINS, Rutherford, N. J.

500,000 VERBENAS THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 60c per 100; \$5 per 1000; \$45 per 10,000.

NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR. We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, BLOOMSBURG, PA.

BUCKLEY'S

Plants and Rooted Cuttings

Go Everywhere and always give Satisfaction

Geraniums The six "KINGS" for bedding: Alp. Riccard, scarlet; S. A. Nutt, crimson; E. G. Hill and Beaute Poitevine, salmon; Mme. Buchner, white; Jean Vinand, pink; strong top cuttings, well rooted—\$2.60 per 100, \$16.00 per 1000.

Petunias DOUBLE FRINGED. Ten novelties selected from Henderson's and Dreer's latest sets, strong rooted cuttings, \$1.5 per 1 0, \$10.00 per 1000.

Verbenas Our 20th Century Collection of 20 new mammoth varieties, labeled, strong plants from 2-in. pots—\$1.50 per 100, \$14.00 per 1000.

Marguerites Chrysanthemum Frutescens, both white and yellow, strong rooted cuttings—\$1.25 per 100, \$10.00 per 1000.

Alyssum Double Giant, strong rooted cuttings—\$1.25 per 100, \$10.00 per 1000.

Salvia The two best: St. Louis and Bonfire, strong rooted cuttings—\$1.25 per 100, \$10.00 per 1000.

Feverfew Little Gem, strong rooted cuttings, \$1.25 per 100, \$10.00 per 1000. Fine plants from 2 1/4-in., \$2.00 per 100.

Ageratum Two best: Princess Pauline, Stella Gurney, \$1.25 per 100.

Asp. Sprengeri Strong plants from 2 1/4 in. pots, \$2.00 per 100, 2-in \$1.50 per 100.

TERMS: Cash with order or C. O. D., 1/3 in advance. SATISFACTION GUARANTEED.

The W. T. Buckley Plant Co., Springfield, Ill. Please mention the American Florist when writing.

SPECIALTIES

ROSES, from 3-inch pots. **In Best**
CARNATIONS, for all delivery, **Varieties**
CHRYSANTHEMUMS.
SMILAX, VIOLETS.

Prices Low. Send for List.
WOOD BROTHERS, Fishkill, N. Y.
Please mention the American Florist when writing.



BURBANK'S Shasta Daisy.

Mailing size plants, \$5.00 per 100; \$40.00 per 1000. 25 at 100 rates, 250 at 1000 rates. Prepaid at above figures. Trade list now ready for 1903.

CALIFORNIA CARNATION CO. LOOMIS, CAL., U. S. A.

Rooted Rose Cuttings.

Beauties, \$3.00 per 100; Brides, Maids, Metcours, Golden Gates, \$1.50 per 100; Porles, \$2.00; Ivory, \$2.50. Write for price on large quantities.

FINE BOSTON FERNS. 2 1/4-in. \$1; 4-in. \$1.5; 5-in. \$2.5; 6-in. \$4.0; 7-in. \$6.0. Elegant for immediate sales or for growing on. **STOCK 'MUMS.** White, Fitzwygram, Queen, Robinson, Ivory, Jones, Chadwick; yellow, Bonnaillon, Wedding, Appleton. All at \$5 per 100. Well supplied with cuttings. **W. H. CULLETT & SONS,** Lincoln, Ill.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

**TO KILL ALL
Greenhouse Bugs
USE
"NICOTICIDE"**

Clean and harmless
as Fumigant or Spray.
Ask your seedsman
for it or write to

**The Tobacco Warehousing
and Trading Co.,**

1000 Magnolia Ave., Louisville, Ky.

Please mention the American Florist when writing.

Miniature Baby Greenhouse



FOR CROWING SMALL PLANTS.

TWO SIZES } No. 1. 11 1/4 x 12 3/4 and 11 inches high.
 } No. 2. 15 x 16 1/2 and 15 1/4 inches high.
Are folded up in compact package of about one
cubic foot; weight about 18 pounds.

SMALL OR NO. 1 SIZE.	LARGE OR NO. 2 SIZE.
1 house.....\$ 4.50	1 house.....\$ 6.50
2 houses..... 8.50	2 houses..... 12.50
4 houses..... 16.50	4 houses..... 24.00
6 houses..... 24.00	6 houses..... 34.50

SIEBRECHT & SON, NEW ROCHELLE, N. Y.

WE NOW OFFER

"Chemicals"

for making **LIQUID COMPOST.**
Dry powders all soluble in water. Composts cost
less than 3/40 per gal. Correspondence invited.

**EASTERN CHEMICAL COMPANY,
620 Atlantic Ave., Boston.**

KIFT'S Patent ADJUSTABLE VASE HOLDER

No. 1.—Brass, nickel, 4 feet long, 6 clasps to each
rod. Price complete (with green or white tum-
blers) \$2.25. Price complete (with green or white
cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod,
brassed and nickelled, with three clasps for 5 to
6-inch pots, each \$1.75.

**KIFT'S Patent Rubber Capped FLOWER
TUBES, 1 1/4-inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.**

**Fumigating Kind Tobacco
Powder**

KILLS ALL APHIS IN ONE NIGHT
in a house 10x25 ft., at a cost of
10c. A 5 lb. trial pkg. will cost
nothing if you will pay the express charges on
it. Our booklet tells of it. Write Dept. C. for it.
**The H. A. STOOFFHOFF COMPANY
116, 117, 118 West St., N. Y. City**

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American Florist

when you write to an advertiser.

**BAYERSDORFER
& CO.'S
SURE SELLERS.**

FANCY Baskets, the cream
of foreign and domestic art;
fine Cycas goods, Sheaves,
Cape Flowers, Immortelles,
Water-proof Pot Covers, Let-
ters and Mottoes, Jardinières,
Doves, Dyed Moss, etc.

The Best in the Market Always
and they sell all the year round.
Begin the New Year by
sending for our latest cata-
logue. Profusely Illustrated.
Just Issued.

H. Bayersdorfer & Co.

[50-56 North Fourth St.,
PHILADELPHIA, PA.

WESTERN FLORISTS...
can save money in buying

SUPPLIES

from **BARTEDES & CO.,**
1521 15th Street, Denver, Colo.
We are now booking orders for Christmas Deco-
rations. Get our prices at once.

**Sigmund Geller
Importer and Manufacturer of
FLORISTS' SUPPLIES**

Looking for Fall Novelties?
LOTS OF THEM ON EXHIBITION.
108 W. 28th Street, New York.

**Wired
Toothpicks**

10,000, \$1.50; 50,000, \$6.25. Manufactured by
W. J. COWEE, BERLIN, N. Y.
Sample Free. For sale by dealers.



Invalid Appliance Co.,
MANUFACTURERS OF
COLUMBIA PLANT TUBS

"The List that never falls apart."
If your seedsmen doesn't handle them,
order of us direct.
FACTORY AND OFFICE:
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TELEPHONE NORTH 813.

**American
Florists
Ads**

Always do business,
Week days and every day
Sundays and holidays,
All over the country,
At home and abroad.

NOTICE.

THE MODEL PLANT STAKE COMPANY,
formerly of Brooklyn N. Y., has removed
to 208 Jersey St., Harrison, New Jersey,
and is now The Parker-Bruen Mfg. Co.

**The Model Extension
Carnation Support.**



Flushing, Long Island,
Dec. 14th, 1901.

MR. THERON N. PARKER,
Brooklyn N. Y.

Dear Sir— I have used
your Wire Carnation Sup-
port the last two years in
all about 12,000. They fill
the bill in every particular.
Nothing could be more
satisfactory and would
give me a great deal of
pleasure if I can bespeak a
good word for you to the
trade and you are at liberty
to refer to me at any
time. Very truly,

A. L. THORNE,
La Fayette, Ind.,
July 8th, 1902.

MR. THERON N. PARKER,
Harrison N. J.

Dear Sir:— After using
your Model Carnation Sup-
port in two of our houses
the past winter, we have
come to the conclusion that
it is perfectly adapted to
supporting carnations, and
shall use them on all our
plants the coming season.

We were much pleased
with the simplicity,
strength and neat appear-
ance of the support
Yours truly

F. DORNER & SONS Co.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.

TIN FOIL

Plain, Fancy, Printed & Mounted,

Manufactured by

The Conley Foil Co.

521 to 541 West 25th St.,
NEW YORK.

ELECTROS...

For Catalogue Purposes.

WE have a large assortment of
strictly high-class half-tones of
which we can supply electros suitable
for catalogue illustration. If you need
anything in this way, state your re-
quirements and we will submit proofs
of the illustrations in stock

Price for cash only 15 cents per square inch.

THE AMERICAN FLORIST CO.,
.....324 Dearborn St., CHICAGO.

A. HERRMANN,

Cape Flowers, all colors,
Cycas Leaves, Metal Designs,
and All Florists' Supplies.

Send for Prices.

404-412 East 34th St. NEW YORK.

Toronto.

OLD YEAR THE BEST YET.—NEW ONE STARTS BRISKLY.—DARK WEATHER KEEPS STOCK SCARCE.—VARIOUS LOCAL NOTES.

The old year was the best for the florists in the history of Toronto, and all were very well satisfied with the increase. The new year has started very briskly and the demand for stock is unprecedented for this season. Unfavorable weather keeps down the supply of roses and of those cut the first grade are in the minority. Beauties are still the scarce article, but the few coming in are nicely formed and very well colored, and a good crop is expected soon. Liberty is also picking up, but only a few stray blooms are to be had. Bridesmaids are furnishing the best blooms and are very well colored. Mrs. Morgan is also in pretty fair crop. Freesias and jonquils are becoming more plentiful and a few Harrisii are coming to the market. Carnations continue both plentiful and good. Many of the newer varieties are showing up well. Continued dark weather has not been favorable to violets and occasionally we are very short of these.

Frank Duffort has some very good freesias and Morning Glory carnations. This variety has done very well with him, having been heavily cut from all through the season. Next year he intends to increase his glass area and grow carnations more extensively.

Late varieties of chrysanthemums from George Hollis and R. Jennings, Brampton, are still used to advantage in design work.

Visitors: J. M. Gasser, Cleveland; Wm. Fendley, Brampton. H. G. D.

Worcester, Mass.

BUSINESS FOR THE YEAR MAKES A FINE START.—VARIOUS LOCAL NOTES.

New Year's day brought us considerable business and several good decorations for teas and receptions. Flowers were plentiful and prices a little lower than at Christmas. Regular trade remains steady, with plenty of good stock available. Funeral work has kept down the supply of lilies, Romans and Paper White narcissi.

Denholm & McKay's department store, which has maintained a conservatory for some years, has discontinued that department, but will continue to handle cut flowers.

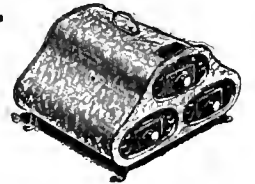
The coal situation is still keeping the growers on the anxious seat, but the mild weather makes it a little easier for them. A. H. L.

NEW CASTLE, IND.—The weather has been very cloudy here lately and sun is needed badly.

Florists! INSURE YOUR PLANTS IN WINTER at but a trifling cost.

GET A LEHMAN WAGON HEATER.

Over 175,000 in use by Florists, etc. The cost of heating is only TWO CENTS for TWELVE HOURS CONTINUOUS HEAT. Send for descriptive circular to



LEHMAN BROS., MANUFACTURERS, 10 Bond St., NEW YORK.

JAS. W. ERRINGER, General Western Sales Agent, 297 Wabash Ave., CHICAGO.

Japan Bamboo Canes.

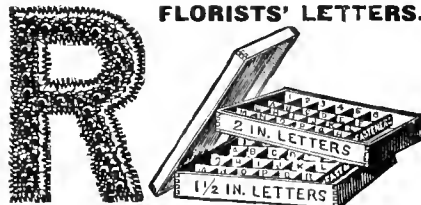
THE BEST IN THE MARKET. Can be used 3 to 4 years, as they do not rot. New shipment expected middle of next February. Orders booked now at the following prices:

6 1/2 ft. size, \$5.00 per 1000; \$45.00 per 10,000.
6 ft. size, \$4.75 per 1000; \$42.50 per 10,000.

Sold only in original bundles of two thousand each, SUZUKI & IIDA, 31 Barclay St. NEW YORK.

Boston Florist Letter Co.

MANUFACTURERS OF FLORISTS' LETTERS.



This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.
Script Letters \$4. Fastener with each letter word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. MCCARTHY, Treas. and Manager, 84 Hawley St., BOSTON, MASS.

Please mention the American Florist when writing.

CUT FLOWER BOXES

WATERPROOF. Corner Lock Style.

The best, strongest and neatest folding cut flower box ever made. Cheap, durable, handy. To try them once is to use them always.

DON'T USE OLD STORE BOXES.

If you have any doubt, send for samples, which speak for themselves.

Size No. 1.	3x4 1/2 x 16.	\$1.75 per 100; \$15.00 per 1000
" No. 2.	3x6 x 18.	2.00 " 18.00 "
" No. 3.	4x8 x 18.	2.40 " 22.00 "
" No. 4.	3x6 x 20.	2.75 " 25.00 "
" No. 5.	4x8 x 22.	3.00 " 28.00 "
" No. 6.	4x8 x 28.	3.75 " 35.00 "

THE LIVINGSTON SEED CO.

BOX 103, COLUMBUS, O.
Please mention the American Florist when writing

1902. 1903.

WISHING YOU THE COMPLIMENTS OF THE SEASON, WE REMAIN, Respectfully yours,

M. Rice & Co., Leading Florists' Supply House.

IMPORTERS AND MANUFACTURERS, 918 Filbert Street. PHILADELPHIA, PA.

American Florist Advertisements Work Every Day.

FUMIGATION METHODS

By PROF. W. G. JOHNSON

Formerly State Entomologist of Maryland

A Practical Treatise and timely work on cheap and effective means of destroying insect pests and other vermin in various places. This work is the outcome of practical tests made by the author, together with the experiences of others, and is one of the most important books published this season and is much needed at this time. It will be of particular interest to

FRUIT GROWERS AND NURSERYMEN owing to the widespread prevalence of the notorious San Jose scale. Hydrocyanic acid gas is the only practical remedy for the destruction of this pest and is being used more extensively than ever before by nurserymen and fruit growers. The perfection of the apparatus for fumigating young orchard trees is outlined in this work. The methods can be easily applied in orchards and nurseries for many dangerous pests at very small cost. The writer is considered the best authority on this subject in this country and has left nothing undone to make this the most complete work of the kind ever published.

GARDENERS AND FLORISTS have found that vegetables and flowers cannot be grown under glass without frequent fumigation for the destruction of insect pests. Hydrocyanic acid gas has solved this problem. The methods of procedure are fully described and every detail is given for generating and applying the gas.

MILLS AND GRAIN DEALERS have been looking forward to the publication of this work, as hydrocyanic acid gas has been found one of the most important materials for clearing mills and warehouses of insects. The subject of carbon bisulphide for fumigating mills and elevators containing grain in storage is also thoroughly considered. To this trade the work is indispensable and transportation companies have found it of great value for the fumigation of cars, ships and other inclosures infested with vermin.

FARMERS OF THE COUNTRY have here fully described a simple, easy remedy for chiggers, prairie dogs, squirrels and other animals in the ground, and rats and mice in any inclosure.

COLLEGE AND STATION WORKERS will find it an up-to-date reference work on this subject. It is covered in every respect and is the only work of the kind ever published. It is written in a popular non-technical style, profusely illustrated, handsomely bound, covering 250 pages, price, post-paid, \$1.00.

THE AMERICAN FLORIST, 324 Dearborn Street, CHICAGO.

FRANZ BIRNSTIEL, COBURG, GERMANY.

Baskets, Puerto Rico Mats, Cypas, Waterproof Crepe Paper, Glass, China.

LATEST NOVELTIES IN ALL FLORISTS' SUPPLIES. FOR THE WHOLESALE TRADE ONLY.

H. M. HOOKER CO.

Window Glass, Paints and Putty, Greenhouse Glass a Specialty, 69 West Randolph St., CHICAGO.

100 PER CENT.

SULPHO-TOBACCO SOAP

(PATENTED)

A Wonderful Insecticide.

Revives Plant Life. Non-injurious.

Prices low. Sales net 100% profit.

Full particulars and sample cake free, if mention this paper.

Larkin Soap Co., Buffalo, N. Y.

PROFIT

FLORISTS' Refrigerators

Embodying all of the special patented features that have made our household models the Standard of Excellence in refrigerator construction. Exteriors of

Solid Oak, Porcelain, Plate Glass.

INTERIOR LININGS OF

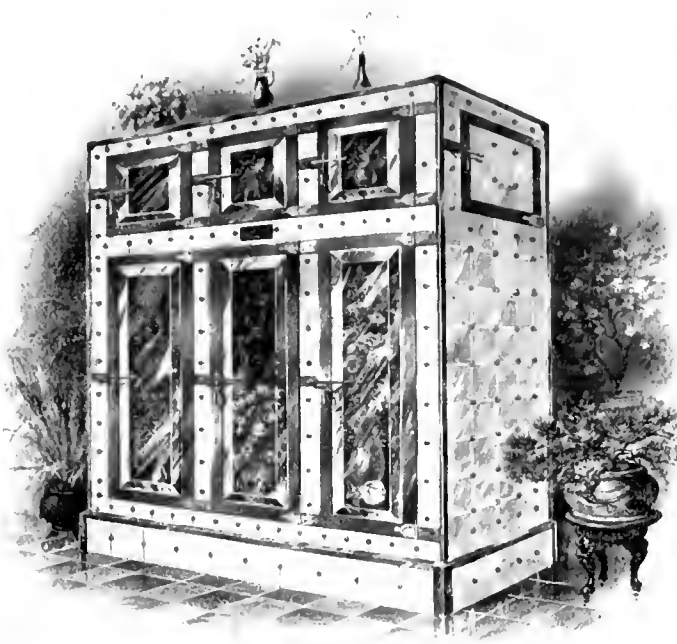
Cypress, or One-half-inch Plate Glass, or White Glazed Tile.

They combine beauty with utility and are guaranteed to be entirely worthy and satisfactory in every particular.

Special inducements on present orders for Spring delivery.

WRITE TO-DAY FOR CATALOGUE 10.

THE WILKE MFG. CO., ANDERSON, IND.



GEO. KELLER & SON,
MANUFACTURERS OF
FLOWER POTS.
Before buying write for prices.
361-363 Herndon Street,
near Wrightwood Ave.,
CHICAGO, ILL.

Standard Flower Pots

The **WHILLDIN POTTERY COMPANY,**
PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
Travelling Representative, U. CUTLER RYERSON, 102 Third Ave. Newark N. J.

THOSE RED POTS

"STANDARDS"
FULL SIZE AND WIDE BOTTOMS.
BULB PANS AND AZALEA POTS.
DETROIT FLOWER POT M'Y.
HARRY BALSLEY, DETROIT, MICH.,
Rep. 490 Howard St.

Standard Flower... POTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....
W. H. ERNEST,
28th and M Streets. WASHINGTON, D. C.

FLOWER POTS ALL KINDS.

STANDARD POTS SPECIALTY
Flat and SAMPLES FREE.
SWANN'S POTTERY M'G CO.,
P. O. Box 78 MINNEAPOLIS MINN.

THE Regan Printing House NURSERY FLORISTS' CATALOGUES

87-91 Plymouth Place,
CHICAGO

It is good business policy
.....to mention the

American Florist

When you write to an advertiser.



Please mention the American Florist when writing.

Horticultural Builders & Heating Engineers Phillips Mfg. Co.

Established 1900. JERSEY CITY, N. J.
In 26 months we have built for private estates 87,347 square feet of Glass Houses and have orders for still more. We are just completing a Range for Oakwood Cemetery, Syracuse, N. Y. We want your patronage. Tel. 1851 Bergen.

Please mention the American Florist when writing.

ALL Nurserymen, Seedsmen and Florists wishing to do business with Europe should send for the "Horticultural Advertiser."

This is the British Trade Paper, being read weekly by all the Horticultural traders; it is also taken by over 1000 of the best continental houses. Annual subscription to cover cost of postage 75c. Money orders payable at Lowdham, Notts.

Address **EDITORS OF THE "H. A."**
hilwell Nurseries, LOWDHAM, Notts, England.

STANDARD FLOWER POTS!

Packed in small crates, easy to handle.

Price per crate	Price per crate	
1500 2-in., in crate, \$4.88	120 7-in., in crate, \$4.20	
1500 2 1/2 " " 5.25	60 8 " " 3.60	
1500 2 3/4 " " 6.00	HAND MADE.	
1000 3 " " 5.00	48 9-in., in crate, \$3.60	
800 3 1/2 " " 5.80	24 11 " " 3.60	
500 4 " " 4.50	24 12 " " 4.80	
320 5 " " 4.51	12 14 " " 4.80	
144 6 " " 3.16	6 16 " " 4.50	

Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent off for cash with order. Address
HILFINGER BROS. POTTERY, Fort Edward N. Y.
Or **AUGUST ROLKER & SONS, New York Agents,**
31 Barclay Street, New York City.

KELLER BROS.

213-15-17-19-21-23 Pearl St.,
NORRISTOWN, PA.

Manufacturers of Standard Flower Pots, red in color, equal to the best on the market; are 16 miles from Philadelphia, best of railroad connections. We give special attention to mail orders and make special sizes to order in quantities. A postal will bring prices and discounts.

WRITE

A. F. KOHR, 1521-23 N. LEAVITT ST.,
CHICAGO, ILL.,
FOR PRICES OF

Standard Pots

which for strength and porosity combined are the best on the market

RED POTS

SAMPLE POT AND PRICE LIST
ON APPLICATION.

C. C. POLLWORTH CO., MILWAUKEE, WIS.....

Lowell, Mass.

TRADE BRISK EVER SINCE THE HOLIDAYS.—GOOD BUSINESS AND FAIR PRICES.—CARNATIONS TAKE A TUMBLE.—VARIOUS NOTES.

Business has been very brisk since Christmas, especially at New Year's, when there was a heavy demand for flowers in general. With this extra rush came plenty of funeral work, which keeps up remarkably. Taking everything into consideration the new year of 1903 has started in to "beat the band." There was no great display of plants and flowers for the installation of the new mayor, Chas. E. Howe, on inauguration day, as has been the custom for a good many years. Stock having recuperated from the severe cutting it was subjected to at Christmas, prices are again reasonable. Carnations are down to the ordinary price; from \$15 per hundred they have come down to \$2 to \$4 per hundred. Roses are steadily improving, especially Bridesmaids, which have been decidedly off color lately. The supply of violets is daily on the increase. Lucky is the violet grower who passed unscathed through the severe weather we have had. Daffodils are coming in limited quantity. With the lengthening days the stock in general is on the improve.

Previous to Christmas the retailers all got together and agreed on a schedule of prices for the rest of the winter, but it is reported that some are not adhering to the agreement.

W. A. Patten has gone to Plum Island to see how the life savers work, and get a much needed rest.

Harvey Green is slated for a place on the newly created park commission.

A. M.

MAQUOKETA, IA.—Mrs. John Odgers has remodeled one of her old greenhouses, erecting a modern one 16x50. She reports good business.

GALT, ONT.—Arthur J. Young reports business good. He last season added 10,000 feet of glass to his facilities and put in a new boiler. His stock is now in good shape.

AVOCA, N. Y.—E. A. Higgins is informed that W. Atlee Burpee & Company have adopted the name, The Dainty, suggested by Mr. Higgins for their new sweet pea, white with a pink edge.

CYPRESS



Green House Material

Hot Bed Sash. Red Cedar Posts.

Write for circulars or estimate.

LOCKLAND LUMBER CO., LOCKLAND, OHIO.

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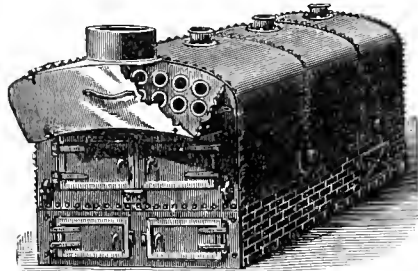
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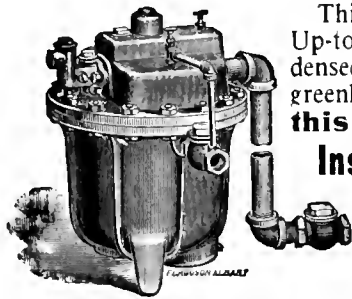
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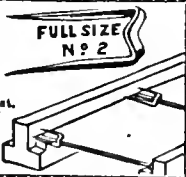
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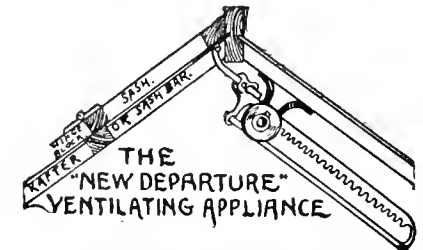
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Vol. XIX.

CHICAGO AND NEW YORK, JANUARY 17, 1903.

No. 763.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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Annual meeting and exhibition, Philadelphia, March 24-26, 19 3. LEONARD BARON, 136 Liberty St., New York, secretary.

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Annual convention subject to call of executive committee. EDWIN LONSDALE, Chestnut Hill, Pa., secretary.

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The Violet Industry.

There were recorded in the Florists' Directory for 1896, three violet growers doing business in Rhinebeck on the Hudson, this year's directory will list upwards of fifty and they tell us there are more a-coming.

While musing over the great changes which time has brought about in the violet industry my thoughts revert to some early spring days away back in the shadowy past, days when Marie Louise and her modern crystal palace were as yet unknown, when our first duty at dawn of morning was to pull away the protecting mats, raise the sashes and kneel down over the redolent frames while we made the daily picking of luscious "Neapolitans," which for size and perfume, at least, have never been excelled in these strenuous days. Surely Shakespeare's oft-quoted lines,

To throw a perfume on the violet,
Is wasteful and ridiculous excess

must have been written after a fragrant whiff from some such spot. Had his experience been limited to the brand of violet not infrequently encountered on the corner flower-stands of to-day, it is very doubtful if he ever would have penned those expressive lines.

The violet's popularity dates from the misty distance of antiquity. In ancient mythology it was dedicated to Venus and there is no better testimony that, even in the flower business, "there's nothing new under the sun" than the recorded fact that when Athens was at the height of her glory, bunches of violets were exposed for sale in the market-places at all seasons of the year. From the days of Homer the beauty and fragrance of the violet have furnished a favorite theme for the poets. By some it has been deemed emblematic of faithfulness. To Shakespeare it was a type of modesty and maidenhood, "Sweeter than the lids of Juno's eyes," and Scotland's poet evidently agreed with the Bard of Avon, for he also wrote, "The violet is for modesty." Another poet of the long ago had apparently learned something of the inconstancy of the violet's odor but nevertheless found a good reason for its universal popularity. He wrote:

For though the rose has more perfuming power,
The violet haply cause 'tis almost lost,
And takes us so much trouble to discover,
Stands first with most, but always with a lover

If there were no lovers it would indeed be a long "blue Monday" for the violet, yet we in these practical days, we who from long habit have come to look upon

the violet's money-circulating value as its chief attraction, bestow but little thought to its sentimental qualifications. The Rhinebeck grower sees in it a nice living, the requisite capital for a couple of new houses annually and, incidentally, a reasonable grounds for an occasional visit to that sprightly and exhilarating section of the metropolis bounded on the south by Madison Square and on the north by West Thirty-fourth street. To the Yale undergraduate, likewise to his feminine partisan, it furnishes a satisfactory medium for breeding commotion in the innermost soul of his Harvard rival. Appropriately adorned with purple cord and tassels it is good to gladden the heart of matron or maiden and nothing more felicitous in the way of a peace-offering has ever yet been discovered to plead the cause of the festive reveler who has "stayed out" overlate a merry-making.

There is no flower, the sweetness of which is so evanescent as the violet. A bunch of blooms twenty-four hours after marketing has already lost the best part of its perfume. Give it twenty-four hours more and it begins to get suspicious and a day later its stench becomes villainous and far reaching. Yet, if a box in which fresh violets have been packed be promptly closed up the delicate violet fragrance may be detected there in all its purity, many weeks thereafter. Herein lies the violet's weakest and also its strongest characteristic. To find a buyer it must be fresh. It cannot, like the carnation, be made to do duty on successive occasions, its age speaks for itself in the dark as well as in the light and hence "salting" and "pickling" are no part of the violet-growers' holiday programme.

Myriads of violets are consumed in a season in New York city and notwithstanding the greatly augmented production each successive year the capacity of the market increases at a like rate, the only serious interruptions to its prosperity being the occasional disposition to advance the price to an unbearable limit. In the magnificent floral establishments patronized by the most exclusive society and on the stand of the lowliest curbstone peddler the violet is at all times a welcome stock in trade, neglected by the latter class only when the market value becomes prohibitive to his customers' limited purse. The smart set may make a show of repudiating it at the horse show or other swell affairs but it lands on its feet every time, for all that. It has passed through all the caprices and fads of the "designers," has been hacked

up into the supposed semblance of doves, eagles, bibles, urns, hearts and many other contrivances, the like of which has never yet appeared in the heavens or upon the earth and still to-day its most acceptable arrangement is in the form where it started ages ago—a plain bunch surrounded by its natural foliage. The bunching of violets for the critical New York trade is in itself an accomplishment not readily acquired. So expert have many of the pickers become in this work that great care is exercised in handling the bunches after their receipt from the grower, the bunching being no insignificant factor in determining the market value of a shipment.

With this general introduction we close for the present and next week we shall have something to say about the famed "up-the-Hudson" violet growers.

Lonsdale on the Lorraine Begonia.

The regular monthly meeting of the Germantown Horticultural Society was held on Monday evening, January 12. The president, Edward Neville, was in the chair. The election of officers resulted as follows: President, Edward Neville; vice-presidents, Charles J. Wister, Edwin C. Jellett and Albert Woltemate; secretary and treasurer, George Redles.

Among the carnations on exhibition were the beautiful Enchantress from Peter Fisher, Ellis, Mass.; The Queen, the

most wonderful flowering plant ever introduced. It is as true a hybrid as there is to be found among the whole list of flowering plants. It does not produce pistillate or seed-bearing flowers until quite late in its flowering season and, so far as is known, no fertile seeds have been produced from it. Quite ninety-nine per cent of the flowers are of staminate kind.

"It is generally known, I presume, that all begonias have pistillate, or seed-bearing, and staminate, or pollen-bearing, flowers separate, in which respect they differ from many other flowering plants. Take all the semperflorens type, of which Vernon is perhaps the best known, and it will be noticed that pollen is produced so freely that on a bright, dry day if a plant in full bloom is shaken the dust-like pollen may be seen flying in miniature clouds, and this same type under consideration produces seed to its full capacity; every pistillate flower makes a seed pod and in due course will be found bulging with fertile seed."

After Mr. Lonsdale had finished his talk, he was plied with numerous questions as to the care of plants in the home. One lady asked how to kill the aphid or greenflies on her plants, to which the lecturer replied, to immerse the plants infested in hot water at a temperature not to exceed 127°. This was given as an emergency remedy when insecticides proper, which may be obtained at any well appointed seed store, are not on hand.

mented with the end in view as indicated in the question, his judgment would be that the sooner the pans were planted the better; the earlier they are planted the fewer plants would be required to fill a given size of pan.

The origin of the Lorraine was asked, and given as follows: "It is a seedling between B. Socotrana as the seed parent and B. Dregei as the pollen parent."

In reply to the question, how is it, seeing that rose growers do not always have their crops in at Christmas, that the Lorraine begonia is always in full bloom for that occasion, the speaker said: "There is no skill required at all to have said begonia in bloom at that season. It blooms naturally in the late fall and winter months. The skill required is in securing the necessary number of cuttings to meet the demand, and that depends upon the care of the stock plants between the flowering season and the time when young shoots spring from the base of the plants from which the cuttings are made. Plants are produced both from leaves and young growths. The young plants from cuttings are believed by many to be the better, but practically there is little or no difference."

It is frequently the case that some quite pertinent questions are fired at a lecturer, or a person who has made an address, after the meeting has adjourned, and it was so in this case. Here is one: "Is it true that the best Lorraine plants seen in Philadelphia last Christmas were received from Cincinnati?" This could not be answered by the speaker because, as he stated, he had not seen any of the Cincinnati plants, so was not a competent judge. He admitted, however, that it was possible because the demand for young plants in the summer was very heavy and in that way many of the best plants raised in Philadelphia were to be found in other cities.

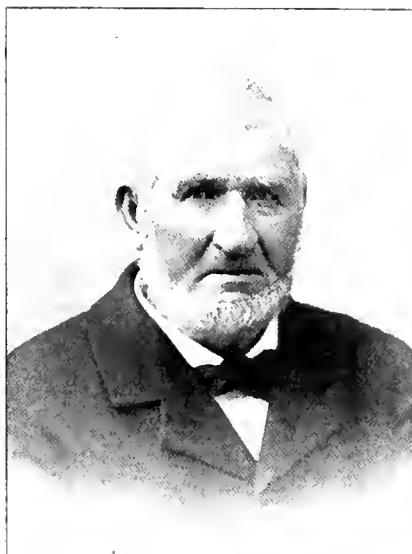
Another point brought out after adjournment was, that there is great danger in over-potting this begonia. It will flourish more luxuriantly with less soil than most other plants, and that it is a great help to florists at Christmas when it is practically impossible to secure as many cut flowers as can be sold, and that for the amount expended for Lorraine more cash value is received by a customer because under the most adverse conditions it will last longer than cut flowers for the same amount spent. G.

The Prices of Plants.

ED. AM. FLORIST:—I fully agree with Mr. Smith in regard to the low prices of plants, particularly in the wholesale line; the retailers make a good profit on what they have to buy, 100, 200 and 300 per cent. Of course their trade is limited and they must make a big profit to live. But the wholesaler must sell low to get the trade and so far as I can see it is because every year new dealers come into the market and, to get trade, they put down the prices, which others must follow. Many of the new growers, after a few months drop out of sight, as it did not pay them, but the damage is done. It is very well to cut down prices when you are nearly sold out and want to close out quick, but even that is demoralizing to the trade.

Geo. J. Hughes.

ED. AM. FLORIST:—The article by W. L. Smith again draws the attention of florists in general and growers of plants in particular to the deplorable fact that the prices obtained, or obtainable, for



John Dick.



Fred. L. Harris.

FLORICULTURE HAS LOST TWO VENERABLE CRAFTSMEN THIS WEEK.

promising commercial white from the Little South Floral Company, South Natick, Mass.; the bright scarlet Adonis from Robert Craig & Son, Philadelphia; a vase of well-grown Scott and other pink varieties from James Barrows' Sons, Germantown, and a bunch of seedlings in nearly all the colors from Albert Woltemate, Germantown. The last named exhibitor also had well grown ferns and cyclamens, which added to the decorative features of the meeting.

Edwin Lonsdale, being present, was called upon to say something about one of his pet specialties, namely, Begonia Gloire de Lorraine, and said in part as follows: "I do not hesitate to say that the Begonia Gloire de Lorraine is the

To the question, which heat is the best for plants, steam, hot water or hot air, Mr. Lonsdale said that so far as he has been able to observe there is no difference between plants of the Lorraine grown in dwelling houses out in the country and those that were heated by steam, hot water or hot air, provided, of course, no deleterious gases escape through the registers or the unconsumed illuminating gas through the burners into the rooms where the plants were growing.

Another question asked was: "Is it better to make up pans of the desired sizes with small plants of Lorraine immediately before Christmas or some weeks or months before that time?" Mr. Lonsdale replied that without having experi-

plants are unreasonably low. This subject, although old, is so full of interest and real importance to us, and Mr. Smith's question is put in such a direct way to all in the trade, I feel that no excuse is needed if I venture a few remarks concerning this lamentable state of affairs.

While I admit that prices in some lines are low, lower than they were, at the same time I claim that well grown plants of nearly all kinds bring as good a price as ever, and fancy goods a better price than years ago. My observations in the last five or ten years have led me to the conviction that the point at issue is not so much a matter of increasing prices for things we have to buy, and decreasing prices for our products, as rather a case of increasing quantity and deteriorating quality. Neither do I believe that over-production is the main cause of this trouble. It is more likely that the cause is to be found in unscrupulous, unbusiness-like, destructive, yes, and killing competition, carried on by members of our trade, who, like other good shoemakers, ought to have stuck to their lasts, instead of embarking in a business of which they knew little or nothing. They enter our trade with the idea that it is the one which holds out the fairest chance for rapid money-making combined with an easy existence. The natural consequence is the production of immense quantities of worthless rubbish, which is offered to the unwary at prices temptingly low; and the further consequences are that seller and buyer alike get discouraged, discontented, tired and sick of the business.

Several times during the last few years, when buying stock, I sent to firms which offered their plants at a low price, and when they came I found that their low prices were very high for the goods received, and in one case I became the owner of stuff for which any price would have been too high even if I had got them for nothing with a chromo thrown in. Repeatedly I sent an order calling for 4-inch stock, paid the price, and when I got it, it was a "measly" lot of plants, coming out of 4-inch pots, but not good enough for 3-inch, unshapely, ill-grown stuff. On several other occasions I sent for rooted cuttings to firms in different parts of the country which had them for sale at astonishingly low prices. They arrived in due time and they were thin, spindling things, mere sticks, some of them not rooted at all, others, and this was the majority, with a few dried up threads hanging to them; they were diseased and irredeemably damaged by long and repeated handling and crowding.

At the same time, while these transactions were the cause of much chagrin, disappointment and aggravation, I also had dealings with other firms, which treated me fine, sent me splendid plants at a good, reasonable price, and even if they should deem it timely and necessary to raise the price I would remain their customer. Nearly all of us have had the same experience; I know many who have.

The grower of good stock has no reason to complain of low prices for plants; if he has, it is his own fault. There is an ever increasing demand for well-grown, fine plants of all kinds at prices profitable to the growers, which demand is not fully supplied; in fact, such plants are scarce all the year around and hard to find at any price. Extra fine, first-class pot plants, especially at the holidays, will bring almost any price you ask for them. At the close of every season the growers of good plants are completely sold out, hunting around for more of the



HOUSE OF AMERICAN BEAUTY ROSES PHOTOGRAPHED DECEMBER 12, 1902.

(Grown by the J. A. Budlong & Son Co., Providence, R. I.)

same grade, unable to find it. You never hear them complain of low prices.

In the face of these facts here stated it is not difficult to find the remedy for the aforesaid disease which periodically spreads disappointment, discouragement and discontent. Let everything we grow, at least every plant we sell, be the best that can be produced; let it be so good that we feel sorry to see it go and still delighted at being able to serve our patrons so well. Let them be such as were raised years ago by growers whose love for money went hand in hand with their love for fine plants, which love almost amounted to a passion. Do not patronize "cheap Johns," if you know them. Do not try to raise 2,000 geraniums on a bench which will hardly accommodate 1,000. Do not annually add glass to your place (and kick about the high price of material) unless you can personally direct and oversee every department of it, and, finally, ask a good living price for all you have to sell—you will get your price if the stock is worth it.

FRED. W. TIMME.

CARNATIONS.

THE SELECTION OF NOVELTIES.

The buying of novelties has become a part of the year's doings in carnation culture and must be taken into account, the same as thrip or red spider. It is something of a nuisance, often a loss, but an ever present necessity for the up-to-date carnation grower. One might as well attempt to grow carnations in cold frames for winter blooming as to try and get along year after year with the old varieties.

To be successful at this end of the business one must use the same care and good judgment that he does in his cultural methods. Wherever and whenever practicable it is, of course, best to see the variety growing, and if you use your eyes to good advantage you can nearly always tell if the variety is likely to be a success with you. This is not infallible, but the failures will be few and far between, and more so if the variety can

be seen growing at different periods of the season. There is a variety being introduced this season that in its two years of existence, where I could watch its growth, has been but a very meager success; in fact, it comes nearer being a failure than a success, yet I have conceited enough to want to plant a house of it if that many cuttings can be had in time and believe that it can be made a grand and paying variety. If I had not had the opportunity to watch this variety and learn its habits its present appearance would hardly warrant the placing of a large order, but this one seems to be the exception to the rule, for generally if a variety does not show up well with the introducer it had best be left alone, as he is a poor introducer who cannot bring out his variety's good points.

Next best to seeing the variety growing is to see the flowers on the exhibition table. Here greater judgment is required for a proper decision as to what to buy, but it is well to always keep in mind the fact that the flowers before you are the very best the plants will produce, judged from the point of size, color, form and stem. The introducer will always be glad to answer any questions you ask as to blooming qualities of the variety, its earliness and general health, and in ninety-nine cases out of every hundred these answers will be truthful ones.

After getting all these facts and deciding for yourself that the flower is one that is better than any of its own color you now have, you can deduct about ten per cent in values all around and then if it will pay you to grow it, go ahead and buy.

Where neither of these two methods can be followed you will have to read the glowing accounts in advertisements and catalogues and get what information you can by correspondence.

Next to deciding on varieties you must determine the number you will buy. This, of course, varies with the size of your place and your market. If you are after flowers less than 1,000 plants will not give enough to make them an item in your daily cut. If you simply want to

give the variety a fair trial 100 will be a fair supply, as these will demonstrate the value of the variety and, if you have the plants well grown, will give enough cuttings to plant it in quantity for the next season. If you simply want to know what the variety will do in your soil and to use it for deciding its merits as an investment the second season, twenty-five will answer the purpose, providing they are put in the best bed or bench in the house. For the grower with a medium-sized place the last named method will be the best, being the least expensive and enabling the grower to try a number of the novelties without either breaking him or using up too much of his space. The grower with a small place who consigns his cut should try as many as he can afford by the 100, so that he may be in the swim the second season with stock enough to make it an item of his cut. The grower with 5,000 feet of glass devoted to carnations should buy them by the 1,000, so as to catch the market the second season. Two or three carefully selected varieties will usually be a paying investment. Of course there will be an occasional failure. If there were not we would soon have the market overrun with carnations and you and I would not be growing them.

ALBERT M. HERR.

THE CARE OF YOUNG STOCK.

No cuttings should be taken from the sand before they are thoroughly rooted. This means that the roots should be about half an inch long. The temperature recommended by the writer in a previous article will root them in from

fresh air; often pot bound and starving, simmering in cold frames long before we have experienced the last of winter's icy blasts, is there any wonder that we often see those patches of feeble, wan looking plants in summer and fall? The fullest light, moisture overhead and in the soil under perfect control, a good soil, well drained and free from all danger of disease are the conditions that we must try to create, and these conditions are only found in the best of houses.

At this time of the year progressive florists always have benches so situated occupied by something, and nearly every year it becomes a problem to find enough room for our young stock. The blooming plants may be doing well and we hate to throw them out. But the dollar that will stay with us in the long run is the one we are after, and it is not well to follow a parsimonious policy here. Better sacrifice a few flowers now and lay the foundation for a golden harvest later on. There are always benches that are not so promising looking as others, and these, if no other room is to be had, should be thrown out, soil and all, the benches thoroughly whitewashed and refilled with fresh soil.

Except late in the season, we never plant rooted cuttings with the view of leaving them in the same position until planting-out time. Nursery stock that is transplanted every year makes stock that will bear transplanting better than stock that is left standing in the same position for several years. The root-pruning that they receive in transplanting keeps the feeding roots near the plant, and when lifted to set in their permanent quarters they have a good

to two months before planting in the field, we usually put them in pots or flats, for handled in this way they may be set out in cold frames sometimes for three weeks before planting in the field. Young plants thoroughly inured to the full sun and open air in this way will take hold quickly and have a considerable advantage over those taken directly from the houses. For the first planting we prefer to plant on benches in two inches of soil, as it saves room over pots or flats and it is much less trouble to keep the soil at a uniform moisture. The soil should be scratched every two weeks with a sharp stick, to keep the surface open. Smoke and syringe regularly to keep down greenfly and red spiders.

Every effort should be bent towards producing a low-branched, stocky plant. The full sun, an abundance of fresh air and plenty of room are essential to produce this result. When the young plants are surrounded by these conditions they will start to break long before the center runs up to a bud. They will start more eyes than will plants grown under unfavorable conditions, and consequently make plants quicker. In the former case topping consists simply in pulling out the leading shoot when it begins to elongate, preparatory to setting a bud, while in the latter case it becomes necessary to remove the center to induce breaking. Which of the two ways is the least detrimental to the plant is not hard to decide.

Sunshine is the most perfect germ killer in nature and, as the young plants will stand it all, they should have it. Especially is it foolish to shade just before planting in the field to save watering. A soft, flabby growth is an ideal breeding ground for diseases of all kinds. Even the shading that the cuttings receive when transferred from the sand is detrimental if they do not wilt without it. Right here is the weakest stage in the plant's whole career, and disease germs are ever on the alert for a chance to penetrate the weakened tissues. The shading that is used right after transplanting from the sand should not be on the cuttings a moment longer than is necessary. We find newspapers serve well for shading in this case. After the first good soaking use water at the roots sparingly until they show signs of growth, but sprinkle lightly overhead every morning until well established. Over-watering discourages root growth, and this is what you should avoid at all times.

Where it is possible to plant in a house by themselves a temperature of 45° at night will suit them better than a few degrees higher. If planted in houses that contain blooming plants the temperature should, of course, not be reduced.

Stock that is wanted for summer blooming should never suffer for want of room and sunlight. To get an early crop it is necessary to depend upon shoots that start under glass, and these will come weak and lopover if the plants are at all coddled. Following are a few varieties that will produce a fair quantity of good flowers on good stems during summer. For red, G. H. Crane; for pink, Ethel Crocker, Mrs. Frances Joost and Wm. Scott; for white, Flora Hill and Mary Wood. Of these Ethel Crocker easily takes the lead; it produces almost as good flowers in summer as in winter.

J.

CARNATION LOUISE NAUMANN.

The accompanying illustration shows a house of carnations at the establishment of G. M. Naumann, Cleveland, O.



HOUSE OF SEEDLING CARNATION LOUISE NAUMANN.

thirty to thirty-five days. The best place you have is none too good for them but some growers still follow the mistaken notion that any place is good enough. Because we do not realize immediate returns from these small plants is no reason why we should not give them the best possible treatment. Stuck in odd corners that are not fit to grow blooming plants; in damp, drippy houses, where, indeed, there may be no dearth of

foundation to support the top growth. The same principle applies to carnations; and besides this it does any plant good to get into fresh soil. Two months is long enough for them to stand in one position.

Cuttings of medium size we plant two inches apart at the first planting, and at the second planting they receive three inches each way. At the second planting, which is usually about six weeks

The variety is Mr. Naumann's seedling from Tidal Wave and Scott, dark pink in color. The name is Louise Naumann. The originator does not call it a fancy, but a good market sort. The house shown was planted September 15 and photographed December 1, 1902.

Greenhouse at Seabright, N. J.

The principal purpose in showing the accompanying illustration is to indicate how a pleasing architectural effect may be secured with the oftentimes essential economy in building. This straight roof construction gives a palm house of reasonable height, very practical growing-houses for cut flowers, etc., and at a very moderate cost. The pretty little vestibule adds materially to the general effect of the structure. This conservatory was built for Selmar Hess, at Seabright, N. J., by the Lord & Burnham Co.

Florists' Plant Notes.

RHODODENDRONS.

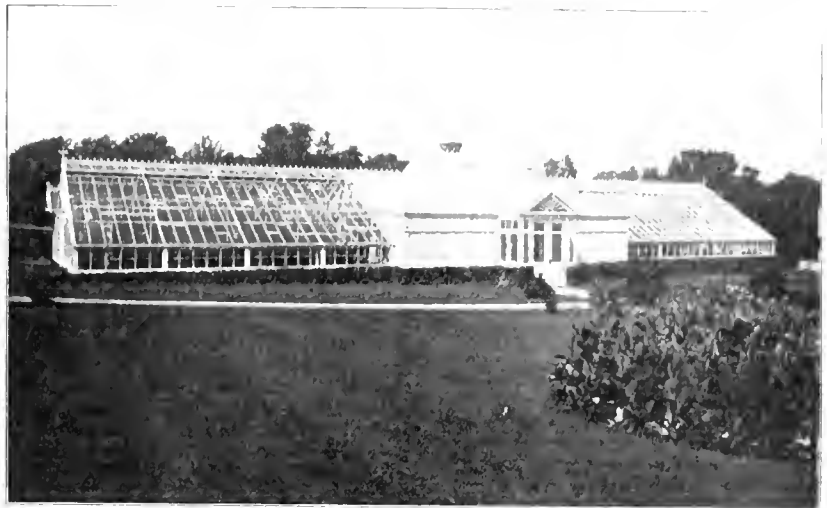
Rhododendrons kept in a cool house must now have more heat to bring them on time for Easter. A temperature of 55° at night in my judgment is about right. Keep them well syringed and give plenty of water at the roots. After the flowers are open, a light shading applied to the glass will prevent the bright sun from wilting the flowers.

GLADIOLI.

If an early crop of gladioli is wanted, plant your corns any time this month. We plant them among the carnations, just deep enough to cover the top of the corns. If they are not planted too thickly no harm will be done to the carnations, for the foliage is not heavy enough to do any shading. A row on the north edge of a bench the length of the house planted two feet apart is about the proper distance.

FERNS.

Now is the time to sow the spores of the different varieties of ferns we grow for ferneries. A temperature of 65° to 70° at night in a well-shaded part of the house will be all right. Keep the seed boxes covered with glass and give little air until the spores have germinated, but be careful to keep the moisture rubbed off that gathers on the under side of the glass. The best varieties to grow for ferneries we have found to be the following: *Pteris tremula*, *Pteris argyrea*, *Pteris cretica albo-lineata*, *Pteris serrulata cristata*, *Pteris adiantoides*, *Onychium japonicum*, *Cyrtomium falcatum*, *Adiantum pubescens*, *Aspidium angulare* and *Lastrea opaea*. *Selaginella Emmihana*, for edging, requires different treatment in propagating. We rob each plant of a few good leaves, cut up into pieces about three-fourths of an inch long, discarding the coarser part of the leaf in the middle, and scatter the pieces over the sand in a flat. Cover with glass and keep them well sprinkled and densely shaded until they commence to take root, after which, transplant them into flats in good fern soil and when of sufficient size pot off into small pots. They require at all times plenty of water and heavy shading. Unless you are growing ferns for this purpose in quantity, it is perhaps better and cheaper to leave this work for the specialists who grow them annually by the hundreds of thousands, and supply them to the trade in the fall at a cost less than you could grow them for yourself. G.



GREENHOUSE AT SELMAR HESS ESTATE, SEABRIGHT, N. J.

Protest at Express Rates.

ED. AM. FLORIST:—I enclose a protest which the florists of Wichita, Kan., have prepared to use in the campaign against the fifty per cent increase in express rates on cut flowers. We have filed one copy with each agent here, have sent one to each of the general managers' offices and also a copy to John N. May, of Summit, N. J. While we do not regard this as an especially brilliant effort, either from a literary or logical standpoint, we think that every florist ought to make a "kick" on this matter, and we chose this manner in making ours. W. H. CULP.

WICHITA, KANSAS, JANUARY 6, 1903.

GENTLEMEN:—We, the undersigned florists of Wichita, wish to enter a protest against the change in rates made by your company, in conjunction with other express companies, in which cut-flower packages are charged fifty per cent more than formerly.

We are sure that this change was made without a full understanding of the facts by those fixing the rate. Taking it as a rule, florists give your employes less trouble with cut-flower packages than is given by the general run of packages carried under the single merchandise or regular rate.

Most packages are delivered at depot or R. R. station if an office is maintained there. Receipts are usually written in the book, packages are plainly marked with shipper's card attached, so that such packages give the minimum of work in receiving and billing.

In delivering, we believe that a larger per cent of cut-flower packages are called for at depot or office by consignees than any other single item under the regular merchandise rate.

The matter of express charges is an item of consideration with nearly every customer who has flowers shipped by express, and we find that the new rate is considered unreasonable, and is often declared prohibitive and we are sure that it tends to discourage frequent buying by out-of-town customers.

In addition to this many direct that light packages be sent by mail, thus lessening considerably the business of the express company on local packages, in which there is doubtless a good per cent of profit.

As to loss of packages and claims for damages in transit, we believe that such are as small or smaller than in any other one class of traffic in which the goods carried are perishable or liable to damage by delay in transit. Several other arguments might be used in this case, one of which is that this present rate works a hardship on a class of business which, with few exceptions, is conducted by individuals of moderate means with whom such an item as this is a matter of grave importance in lessening the already too close margin of profit on cut flowers bought at wholesale and sent to the retailer by express.

In conclusion, we say that a rate corresponding to a general special would have been much nearer justice in this matter in giving the florist shipper a rate which the volume and steadiness in his traffic deserves.

So long as the present rate is in force, we believe that florists will expect to receive to the smallest detail the most particular attention to cut-flower shipments, and that all claims for

damaged goods, either by heat, cold, careless handling, or delay, will be presented for collection regardless of personal friendship which may, and usually does exist between the florist and express employes.

We trust that this matter will receive your early consideration and that you will do all possible in your power to readjust it to a satisfactory basis. Respectfully,

HARRY L. HUNT,
W. H. CULP & CO.
CHAS. P. MULLER,
HERSEY GREENHOUSES,
F. KUEHNMEISTER,
C. A. ROSE.

[This protest is in the right spirit. If every shipper and receiver of cut flowers by express will write such a letter to the general superintendent of his express company and also forward a copy to John N. May, Summit, N. J., and to the AMERICAN FLORIST, it will aid greatly in securing a reconsideration of the matter.—ED.]

Write Your Protest To-day.

Excessive express rates on cut flowers do not appear to interest the florists generally throughout the country, judging from the few protests received. Up to last Saturday, January 10, twelve letters only have been received and notices were printed in each of the three trade papers one week prior to above date. This would certainly indicate that the florists, as a body, do not object to paying the excessive additional rates now being charged, and is plain proof that they would rather pay sixty-five to seventy per cent more daily for express for the flowers they may be shipping than take the trouble to write half a dozen lines of protest, costing them at most 4 cents.

A committee has been appointed by the president of the S. A. F. to take the matter up at headquarters here in New York, and the invitation sent out through the papers, as above stated, was a preliminary work necessary for said committee to have something definite to work upon, and it certainly would appear to be of enough interest to the florists, one and all, to do something and that something cannot well be less than to write a couple of letters, one for the use of the committee in New York, the other to the superintendent of the express company in the nearest city to where the writer is located. Furthermore if any concession is to be gained, every florists' club as a body should take the matter up at once and make a vigorous protest to

each company in their respective cities. Thus by united action something may be accomplished but it is useless to suppose the express companies will take any notice whatever of a dozen protests.

In conclusion, if you want the rates reduced, act at once or the matter will fall flat and the first thing you know another jump in rates will follow. Get your protest in at once in as short and concise a manner as possible, but an emphatic protest.

JOHN N. MAY,
55 W. Twenty-sixth street, New York.

Keeping Greens in the Store.

ED. AM. FLORIST:—What is the best way to keep common ferns while on hand as supplies? We use damp sphagnum moss in boxes and set the bunches of ferns on the stem ends in this, with the fronds out, sprinkle a little and keep dry air out with a cover that is tight. We keep them fairly cool in cellar storage. How long can they be kept? What is the best way to keep galax leaves and leucothæ sprays, also English ivy leaves? How long can they be kept? Does all this stock need light to keep the green color from yellowing? Would it be any advantage to keep it in a light place with a glass covering over the box, admitting light to hold the fresh green color? What is the best way to keep *Asparagus plumosus* and *A. Sprengeri* cut? Do they keep best if the stems are constantly in water and is that a necessity? How can smilax strings that are cut be best kept? We have them in a box slightly sprinkled with water and kept from heat and air, occasionally airing them and redamping and closing the box again. Ten to fourteen days is the best we can do. We have no ice but good control of temperature in the cellar.

W. M. B.

The best way to keep common ferns while on hand as supplies is in a cold frame, spread in a thin layer, bedded in and covered with leaves to prevent too hard freezing. But, as "W. M. B." apparently has not the facilities for storing them in this manner, I would recommend the following method, which will also apply to galax leaves and leucothæ sprays: Pack in boxes in layers, not too tightly, using damp sphagnum moss between each layer, and place them in a cool cellar, in which condition they will keep for months. English ivy leaves we always leave on the plants growing underneath the benches or along the greenhouse walls until we are ready to use them; for this reason we have not had any experience in storing them. I might recommend, however, to tie them in bunches and keep them in jars of fresh water, storing them in the cellar, just as you would fresh cut flowers. Light is not at all necessary to keep the color from yellowing; therefore, in my opinion, no advantage would be derived from keeping them in a light box with a glass covering. *Asparagus Sprengeri* will keep best just as you would keep cut flowers, in jars of fresh water placed in the ice box, or in the cellar. The questioner is handling his smilax just right, and the same treatment will do for *A. plumosus*. Kept in a cool cellar, smilax ought not to be expected to last over fourteen days, but *asparagus* will keep much longer. The cellar should not be too damp, but should be kept as nearly as possible at a temperature of 40°.

G.

MICHIGAN CITY, IND.—Charles Kintzele says that 1902 was the best business year in his experience.

Richardia Hybrida Solfatar.

A German contemporary, *De Gartenwelt*, color-plates the above new *Richardia* in one of its recent issues and speaks of it as follows: *Solfatar* is a cross between *R. Elliottiana* and *R. Adlami*. The flowers are from fifteen to twenty centimeters long and ten to fifteen centimeters broad, the edge very often being undulated. The color is a light sulphur-yellow which assumes a greenish sheen at dusk and under artificial light. At the base of the flower is a blotch of deepest black. The leaves are more longish than those of *R. Elliottiana* and have fewer of the white, translucent specks. While *Richardia Elliottiana* will always remain a favorite on account of its effective deep yellow color, and retain its value as a bedding plant, *Solfatar* has a great future before it as a cut flower on account



Fred. Dörner, Jr.

President State Florists' Association of Indiana.

of its pleasing color and almost unlimited durability. The flowers never shrivel like those of the white forms, but if left on the plant they will gradually turn green until they assume the color of the leaves. Cut, they will remain in good condition for a month, and it is therefore impossible for the grower to sustain a loss on account of their fading. Furthermore, this new kind has added value on account of its susceptibility to being forced. If the bulbs are planted at New Year's the plants will be in bloom by the middle of March under moderate heat. They are not fond of extreme heat. In the open ground the flowers will grow much finer and larger than in the house. The bulbs can be planted in the open, like those of the *gladiolus*, in April, and the flowers will then develop in from eight to ten weeks. This durability and hardy constitution of *Solfatar* is a great advantage over *R. Elliottiana*, which is very tender, particularly as a young plant, and will therefore always be expensive. *Solfatar* is vigorous even as a small seedling plant.

ST. LOUIS, MO.—The Townsend Floral Company, which recently purchased the Cannon flower store at 4248 Olive street, reports a very fine business. They have rebuilt their greenhouses, using the most modern methods, and now have everything in fine shape.

Berberis Thunbergii.

Berberis Thunbergii is one of the most useful shrubs a landscape artist can have. In winter its berries are attractive, in spring the leaves are a bright green and the younger ends are usually a lighter color than the older branches. The coloring in autumn is exquisite. It never grows high, is well adapted for border or edging, also does well on terraces to edge a stairway. Besides being so ornamental and dwarf, it is what foresters call "tolerant," which means that it will make shift under other trees, in ravines, or to fill up gaps where old trees or shrubbery have become disfigured at the base. It prefers soil moderately dry rather than constantly wet. C. B. W.

Teas' Weeping Mulberry.

Weeping trees should not be used as promiscuously as others, but there are places for them. Teas' weeping mulberry is one of the most satisfactory, being quite hardy and thrifty. The fruit on this weeping variety is but a secondary consideration, but it is of some consequence. They leaf out late in spring, but are soon covered when once started. It is rather remarkable for the density of its foliage and there are a variety of leaves on the one plant. C. B. W.

Indianapolis.

STATE ASSOCIATION HOLDS ANNUAL ELECTION.—THE NEW OFFICERS.—PROTEST AT EXPRESS RATES.—THE EXHIBITS.—TRADE GOOD.—VARIOUS NOTES.

The annual meeting of the State Florists' Association, which was held January 12, brought the following out-of-town florists to the city: J. S. Stuart and J. A. E. Haugh, of Anderson; Herbert Heller, New Castle, and R. A. McKeand, of Marion. A large delegation from Richmond was expected but, much to the regret of those present, failed to arrive. The election of officers for the coming year resulted as follows: President, Fred. Dörner, Jr., of Lafayette; first vice-president, E. A. Nelson; second vice-president, R. A. McKeand; treasurer, John Heidenreich; secretary, H. Junge; executive committee, John Hartje, Herbert Heller, A. Baur, E. G. Hill and J. S. Stuart. Mr. Haugh, who has been president of the association for three years, emphatically declined re-election. Herbert Heller, Wm. Billingsly, Irvin Bertermann and George Wiegand were appointed a committee to draft resolutions protesting against the exorbitant express rates on cut flowers. The discussion of the matter brought out the fact that the American Express Company has more friends among the florists than any other company. Although most of the evening session was taken up by a very animated discussion of chrysanthemum show matters, no final decision was reached. H. W. Kieman, Wm. Billingsly and F. Huckriede were appointed to judge the exhibits of the evening and reported as follows: They recommended that the S. A. F. silver medal be awarded to the South Park Floral Company for the new yellow rose Franz Deegen and the bronze medal to John Hartje, for his white seedling carnation, Number 473. They awarded a certificate to Baur & Smith for their pink carnation Indianapolis, and to Frank Harritt for an unnamed pink carnation of 1898. Honorable mention was made of Stuart & Haugh's display of Golden Gate and Bride roses and carnations, and of Baur & Smith's carna-



Berberis Thunbergii.



Teas' Weeping Mulberry.

TWO SUBJECTS WHICH FLORISTS MAY WELL RECOMMEND FOR USE ON THE LAWN.

tion seedlings. One of John Hartje's pink seedlings and a vase of mixed seedlings also received honorable mention. The supper tendered by the association to its members proved to be a most enjoyable affair in every way.

Abundance of smallpox and scarcity of coal are the two subjects occupying every one's mind at the present time. Fortunately neither of the two evils has so far seriously interfered with the welfare of the local florists, most of whom are busily occupied in scratching their vaccination and telephoning for more coal.

Trade has continued good since the holidays. Roses, especially the better grades, continue to be scarce and high in price. Carnations and violets are becoming more plentiful. H. J.

SEDALIA, MO.—At the Archias Seed Store they report the season's business much the best on record.

CLYDE, O.—R. C. Arlin has bought the interest of O. F. Horton in the firm of Horton & Arlin and will add one plant house this spring.

ST. CLOUD, MINN.—The Kindler Floral Company report a very fine holiday season and things going nicely now. They are planning to put up a new iron frame house in a few weeks.

SCHENECTADY, N. Y.—Limmer & Evans report their Christmas business far ahead of any previous record despite increased competition. The carnation was the popular flower. There was a big sale on both flowering and decorative plants and holly, green and bells were in larger demand than ever.

Chicago.

STOCK SCARCE AND QUIET BUSINESS CONSUMES THE RECEIPTS.—COLORED CARNATIONS THE ONLY PLENTIFUL ITEM.—VIOLETS HAVE UPS AND DOWNS.—COAL SITUATION AFFORDS CONCERN.—DOINGS OF GROWERS AND OTHERS.

The market has been dull this week, which is, perhaps, not wholly unfortunate, for were trade at all brisk it would be impossible to handle the business satisfactorily. It may be said that stock is scarce, although the word hardly applies to colored carnations. The Beauty crop seems at its lowest ebb. The short-stemmed part of the receipts is very poor, nearly all bullheaded and discolored. Medium lengths are in greatest demand, with a proportionately larger supply of the extra long. Bride is showing up fairly well as to quality, and in general it may be said that Bridesmaid is holding its color well considering the long continued period of gloomy weather. Both items are under the demand and prices have ranged up to \$15 per hundred for the select goods, although that hardly represents the market, for the general range is from \$6 to \$10. Liberty and Meteor are also in very small supply, but are not in so active demand as before the holidays. White carnations have been in demand for funeral work and prices on good stock have ranged up to \$4 per hundred. The various fancy varieties in colors have been in good supply, but it has been possible to move the receipts at any time by a slight concession on price. Violets have had their ups and downs. This is one of the items for which the demand fluctuates heavily, and the sup-

ply is also erratic. One day there will be comparatively heavy receipts and little demand and the next day conditions may be reversed. Such has been the story this week. In general there have been large supplies, particularly of the lower grade, but the demand for first-class goods has been sufficient to hold the price up to \$2. Probably a fair quotation on the average receipts would be 50 cents to \$1.25. Bulbous stock has been moving fairly well because of the scarcity of roses and white carnations. Most of it has found its way into funeral work.

At the meeting Wednesday evening President Thompson appointed J. C. Vaughan and F. F. Bentley a committee to act for the club in the matter of assisting in securing an appropriation from the state legislature for a range of greenhouses for experimental work at the State University. The next meeting, February 11, will be carnation night. All local growers should send exhibits and all introducers of novelties should be represented, for there will be a large number of visitors. F. F. Bentley, E. F. Winterson and Walter Kreitling are the committee in charge. All those from Chicago and the west who will attend the Brooklyn carnation meeting next month should communicate with President J. D. Thompson; he is arranging for a special car from Chicago.

The coal situation continues to afford the growers more or less concern. Few of them have been in any great straits, but when a grower finds himself constantly within a few days of the end of his pile, in zero weather, his alarm is not unnatural. Most of those who had con-

tracts with reliable concerns are now paying in excess of the contract price for their supplies. This they find advisable because it is undoubted that the coal dealers can get big money for their goods, and the growers think it unwise to undertake to hold them to the letter of their contracts, feeling well satisfied if they are able to get steady supplies even at advanced cost.

On January 3 the J. D. Thompson Carnation Company, at Joliet, received a check for \$50 from the Convention Hall Association at Kansas City in payment of the first prize in class 159 at the recent flower show, over which there has been some controversy. This was the class for best named variety, any color, not yet in commerce. The letter accompanying the check says that the premium was awarded to Enchantress.

Joseph P. Brooks, foreman for Pochlmann Brothers, is receiving congratulations over the arrival on Sunday of twin babies, a boy and a girl, each weighing seven pounds and both bright and healthy. Mr. and Mrs. Brooks are happy and proud of the new-born little couple.

There is continued talk of large additions to the greenhouse area, but it is not likely that all of the contemplated houses will develop. For the first time on record considerable French glass is being sold in this market for greenhouse purposes.

O. A. Will, of R. Will, Minneapolis, has been in town this week buying material for a new range of 50,000 feet of glass. They will use the Garland iron gutter.

Emil Buettner is sending Randall some very good white lilac. At first it sold very readily at \$2, but of late it has not been moving so well.

Paul Dailedouze, of Flatbush, is visiting the growers in this vicinity and says that the west has some great carnation-growing plants.

O. P. Bassett and Mrs. Bassett started Monday evening for Pasadena and Los Angeles, expecting to be away about two months.

N. K. Welter, at Evanston, is reported as having decided to stop buying high-priced coal to keep his carnations warm.

William Kidwell welcomed a fourteen-pound boy into his family last Monday.

A. Lunge has been ill with tonsilitis.

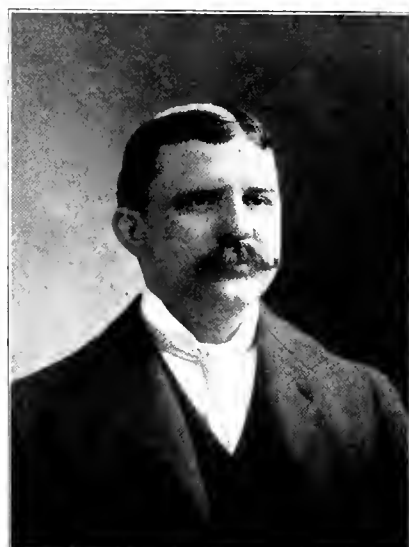
New York.

CLUB INSTALLS ITS NEW OFFICERS.—SKETCHES OF THE INCUMBENTS.—STORY OF THE EVENING'S BUSINESS.—COMMITTEES FOR THE YEAR.—STOCK SCARCE BUT DEMAND LIGHT.—VIOLET MARKET SLUMPS.—VARIOUS NOTES.

With this appears a portrait of the newly installed chief executive of the New York Florists' Club, in a pose which some recent presidents, for one reason or another, have had no occasion to practice and which we believe will give sincere pleasure to his many friends and awaken an interest far beyond that which a portrait of the more common style could evoke. Mr. Troy comes of a horticultural ancestry and received when a young man a thorough training in his profession at Abbotstown Gardens in Ireland, at the establishments of Chas. Turner, B. S. Williams, and Eton Hall, England. He came to New York in 1888 and for the past seven years has held the position of manager of the Kosary Flower Company, previous to which he was engaged in landscape work with Bowditch and at Pitcher & Manda's nurseries. In addition to the domestic nursery business so vividly shown in the illustration, Mr.



J. H. Troy.



F. H. Traendly.

PRESIDENT AND VICE-PRESIDENT OF THE NEW YORK FLORISTS' CLUB.

Troy has quite an establishment at New Rochelle, his specialty being fancy decorative planting material. No doubt president Troy's administration of the affairs of the club will be eminently successful. The two vocations of proud father and able president should work well together and we all hope that he may always be blessed with the filial love and respect of his flock in the domestic circle and the club-room alike. The portly gentleman represented in the other illustration is well-known in New York wholesale flower activities and in his capacity as a strenuous bowling enthusiast, once seen (and heard) is never forgotten. Whether in business or pleasure. Mr. Traendly enters heart and soul into whatever he undertakes and the club made no mistake when it placed him in the vice-president's chair.

Having now introduced the two new officers, the story of the first club meeting of the year is in order. Secretary Young and Treasurer Weathered, re-elected for the 999th time, occupied their respective positions with accustomed dignity. The retiring president, W. F. Sheridan, briefly spoke of the events of the past year in the club's history, complimented the organization on its harmony and prosperity and then introduced his successor, bespeaking for him the continued cordial support of the members. President Troy, on taking the chair, made a few remarks touching particularly on the practical questions now uppermost, such as the coal problem, the exorbitant express rates on flowers and the approaching carnation convention, and urged individual effort on the part of each member to maintain in the coming year the high standard of efficiency shown in the club's past history.

Routine business included the annual report of the secretary, showing an increase of twenty-two new members and one death during the year, the treasurer's report showing a generous increase in the treasury, the adjusting of several unfinished items left over from the fall exhibition, and the presentation of resolutions, as authorized at the previous meeting, expressing sympathy with the widow and orphans of the late A. S. McLennon and appreciative of his manliness, industry and integrity.

A letter was received from the Cincinnati Florists' Club expressing a desire to co-operate in any general movement for the repeal of high express rates and a general statement of the situation by Mr. O'Mara was followed by a vote authorizing the appointment of a special committee to work in harmony with the S. A. F. and other organizations in agitating this subject. Wm. Turner, of Oceanic, did the club a good turn by turning into the treasury the amount of premiums won by him at Madison Square Garden, and the club, in turn, returned him a vote of thanks. Alex. Wallace, as secretary of the Brooklyn Horticultural Society, gave interesting details of the preparations for the coming carnation meeting of February 19 and 20. He said that the citizens, as represented by the Brooklyn Academy, are working in harmony with the florists and the prospects are excellent for a record-breaking convention. Wm. J. Stewart announced the death of F. L. Harris, of Wellesley, Mass., an honorary member of the club, and a committee was appointed to prepare resolutions thereon. The list of regular and special committees appointed was as follows: On awards, Messrs. Cook, Siebrecht, Duckham, Leuker and Phillips. On legislation, Messrs. O'Mara, May and Burns. On entertainment, Messrs. Sheridan, Traendly and Kogge. On annual dinner, Messrs. Weathered, Sheridan, Traendly, Hafner and Butterfield. On unfinished show matter, Messrs. O'Mara, Sheridan, Weathered and Young. On death of sister of ex-President P. O'Mara, Messrs. Sheridan, Hafner and Dowsett. On death of Fred. L. Harris, Messrs. Manda, Stewart and Troy.

A sudden scarcity of roses and carnations has struck this market and the fact of a very light demand is all that keeps prices from soaring skyward, as the supply, at present, is totally inadequate to meet any generally lively run of business. As it is, white carnations are bringing fancy returns and American Beauty specials have advanced fifty per cent in value over last week. On the other hand violets are being hard hit, the daily receipts being very heavy and the sales very light. The severe cold makes it impossible for the Greeks to take advantage of the situation and so this

useful outlet for a stagnated market is cut off and the violets are left on the wholesalers' hands until they are valueless. As things are now, it is less a question of price but of a sale at any price and improvement is not in sight until a period of warm weather gets here.

Patrick O'Mara is about to take a sea trip to St. Augustine, Fla., where his sister has already gone for needed rest after the recent bereavement which the family has sustained. Mr. O'Mara will be away about two weeks.

J. W. Withers, who has been confined to his room by sickness for the past six weeks, expects to start next week on a recuperative trip to the West Indies.

Huge birds' nests constructed of twigs and "pussy willows" are a taking ornament in Warendorf's window, filled with violets, lily of the valley and roses.

John H. Taylor had a boiler tube give way one night last week when the temperature was low and one house had a very narrow escape from freezing.

The large greenhouse of George Zeiner, on Clarkson street, Brooklyn, burned January 10, loss \$2,500.

J. D. Thompson, of Joliet, Ill., was a visitor last week.

Philadelphia.

GROWERS HAVE TOUGH TIME BETWEEN GETTING COAL AND MEETING DEMANDS FOR STOCK.—PRICES HIGH.—VARIOUS LOCAL NOTES.

The lot of the florist these days can scarcely be said to be cast in pleasant places. What with the scarcity of coal, which is emphasized by the cold spell now prevailing, and the infinitesimal stock of flowers coming in, it keeps everybody on the jump and there is a constant strain all along the line. The coal situation is getting worse instead of better. Prices are going up and even at the advanced price one is counted lucky if half of his order is delivered. It has to be all cash down now, as the dealers have to put in the cash first to get prompt delivery and keep their cars from being side tracked. Prices range from \$3 to \$5 and even higher at the mines by the carload and \$7 to \$8 and even higher at the yards, and haul it yourself. Hard and soft are about the same. W. K. Harris says his fuel bill will be over \$3,000 more than last year and many others say that they will be satisfied if they come out even on the business of the year.

Flowers are very scarce, there being nothing in full supply except, perhaps, carnations and even these are not plentiful; \$3 is low for stock safe to handle, with extras selling as high as \$8 per hundred. Roses, particularly white stock, are scarcer than I can remember. Everything is grabbed up at sight. The poorest Golden Gates bring \$6, with the specials going as high as \$18. Bridesmaids and Brides ranges from \$6 to \$18, Beauties, \$2.50 to \$7.50 per dozen and very scarce. Bulbous stock \$3 to \$4, Harrisii lilies \$25 per hundred, callas \$12. Violets \$1 to \$1.50 per hundred.

At the flower market the business is all over these mornings in about twenty minutes. The growers are waylaid at the depots and if they can fight off the buyers and keep their stock intact until they reach the market it is simply a question of seeing that none of it gets away without the equivalent, as the buyers fairly swam about each lot as the boxes are opened, and it is hard to keep track of the stock as it goes. D. T. Connor, who represents the Lord & Burnham Company, has fixed up a

nice exhibit of the firm's various appliances and is on the spot every morning.

J. Anderson, of Garrettford, has sold out his greenhouses and business to George Monroe, late with Robt. Scott & Son, who will carry on the same. Mr. Anderson is going back to his old love, the milk business.

Mr. and Mrs. James Verner, Garrettford, celebrated their silver wedding anniversary on January 16. There was a large gathering of friends, with numerous presents.

There will be considerable building the coming season. John Burton will rebuild several large houses and erect some new ones at the new place. K.

Boston.

TRADE REPORTED GENERALLY SATISFACTORY.—SCARCITY OF FUEL SHUTS OFF PRODUCTION—VIOLETS AND RED CARNATIONS LOSE FAVOR.—THOMPSON SECURES MORE FISHER NOVELTIES.—VARIOUS NOTES.

Business matters in general seem to be progressing satisfactorily at present in all branches of floricultural industry. The wholesale markets are receiving their daily shipments of flowers in quantity, quality and variety fully up to the average for the season and the suburban and country demand as experienced by the city wholesale dealers compares favorably with that of former years. In fact it is rather better than usual, the scarcity of fuel and the shutting up of many small establishments being probably a contributing cause. As to prices, they are holding up very well except in the case of violets and red carnations. The latter, which at Christmas stand at the head of the list of desirable goods, have now dropped precipitately to the bottom. It is the usual story and its recurrence each year furnishes the very best kind of an argument justifying double rates on carnations of this color at Christmas time, since the market refuses to support their production during the balance of the winter. At present selling values red carnations, however good, are an unprofitable crop. On the other hand, the white varieties are having an excellent run at paying rates. Violets have dropped to one-half their holiday value. Wholesale and retail florists agree that the unusually high prices charged during the holiday season just passed are largely responsible for the extent of the break and it will take a little time at prevailing low rates to lure the public back into the violet habit. Further, a considerable moderation in temperature is essential before the street men, who use up so many low-priced violets, can do anything outside.

The carnation meeting at Brooklyn next month is likely to attract a larger attendance from this section than these occasions have attracted in the past. The prominence of New England varieties all over the continent and the high standard set by our local seedling raisers has had a healthy and inspiring effect on the carnation interests here. J. D. Thompson, of Joliet, Ill., the purchaser of Peter Fisher's Enchantress, was in town for one day last week and secured control of two more of Mr. Fisher's gems, Mrs. Patten and Nelson Fisher. Mr. Thompson was highly elated over the splendid success attending the sale of Enchantress, which he attributes, in part, to the excellence of the stock now being sent out, a month ahead of contract time. His personal sales of this variety

on the present trip amounted to 14,000 rooted cuttings.

The suggestion to take the Public Garden for a site for Boston's new city hall has met with general popular disapproval.

Visitor last week: L. W. Wheeler, of Vaughan's Seed Store, New York.

Madison, N. J.

The festive litch-string was out last Wednesday night in Madison. It was installation night in the Morris County Gardeners' and Florists' Society and, in accordance with well established custom, the members and their friends made merry. About sixty participated in the "smoker," the number including a fair percentage of guests from New York and intermediate stations, and the hands on the clock sped around entirely too fast for those who "must catch that train." A business meeting preceded the entertainment, when Messrs. C. H. Totty, president; Robt. McMullen, vice-president; Wm. Charlton, treasurer, and C. H. Atkins, secretary, assumed their various chairs and annual reports were presented showing the organization to be strong and harmonious and the treasury well filled with the needful. After the reading of letters from several absent friends an admirable entertainment was presented by the "Foster's Funny Fellows" under the management of the Star Lyceum Bureau, incidentally assisted by Robby Schultz in his specialty of hanging on to the four accs. During the entertainment on the platform, which was thoroughly good and enjoyable, the officers past and present worked assiduously in dispensing good cheer for the inner man. The heavy burden of coal bills and other worries of the gardeners' lot were all forgotten for the time being, as rose growers and private gardeners made merry together and thus furnished an example of that fraternal fellowship which should always prevail. The Madison idea is a blooming success.

Tarrytown, N. Y.

The annual banquet of the Tarrytown Horticultural Society at the Florence Hotel Wednesday evening, January 14, enjoyed a full attendance and proved a jolly affair. After the preliminary exchange of greetings the assembly marched to the dining hall, where the tables were elegantly decorated with the rich products of the various greenhouses in the vicinity. Full justice having been done to an elaborate menu, President David McFarlane called upon the president of the village of Tarrytown, who extended cordial greetings to the society and presented the freedom of the town to the visitors. Clarence Reynolds recited the mycological legend touching on the science of rose colors and Messrs. Withers, Cobb and Butterfield made a good oratorical record for the reporters' table, the latter also contributing songs. D. Raymond and other society members added eloquence and wit so entertainingly that the midnight hour arrived all too quickly. Songs and instrumental music were plentifully interspersed throughout.

LEMINGTON, KY.—John A. Keller says holiday business was full thirty per cent better than a year ago and he will this spring add two houses 30x125. The Lakeview Flower Store also makes a good report and Honaker says 1902 was the best business year on record.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
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in the trade.

Advertisements on all except cover pages,
10 Cents a Line, Agate; \$1.00 per inch.
Cash with G. order.

No Special Position Guaranteed.

Discounts are allowed, only on consecutive inser-
tions, as follows—6 times, 5 per cent; 13 times,
10 per cent; 26 times, 20 per cent;
52 times, 30 per cent.

Cover space sold only on yearly contract at
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front pages, regular discounts apply-
ing only to the back pages.

The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines only.
Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

CHAPERON is the name given by the
Chicago Carnation Company to a prom-
ising new white seedling carnation.

It has been stated by a well known
grower that American Beauty roses will
yield \$1.25 per square foot of bench
space per annum.

J. E. JENSEN, foreman for the J. D.
Thompson Carnation Company, says
Apollo is the best keeping carnation
with which he has had experience.

THE yellow address label on your paper
bears the date at which your subscrip-
tion expires. When we receive your
renewal the date on the yellow label will
change within three weeks.

E. G. HILL, of Richmond, Ind., states
that one firm will pay \$8,000 more this
year than last for coal to heat the same
amount of glass and pertinently asks
whether growers, considering this
advance, can sell stock at former prices.

THE coal question is a serious one. In
most cases the supplies have thus far
been sufficient to keep the boilers going,
but the growers are naturally alarmed
when it is possible to keep only a few
hours' or days' supply on hand. A severe
storm, to tie up the railroads, would
mean the freezing up of many establish-
ments.

A Caution.

Subscribers should satisfy themselves
of the trustworthiness of persons to
whom they pay money for subscrip-
tions to the AMERICAN FLORIST. We
have frequent complaints about money
paid to persons who never forward it to
us. Our representatives are well-known
members of the trade in their several
communities. Pay no money to strangers.

Sweet Peas Without Crop Rotation.

ED. AM. FLORIST:—Will you please tell
me whether sweet peas can be grown
successfully on the same ground year
after year? Some authorities say they
will not do well, but a neighbor of mine
has raised fine sweet peas for several
years in the same place. As I have an
ideal place for growing them, I do not
want to change unless it is necessary.

ARTHUR W. HIGGINS.

I think that sweet peas can be grown
on the same ground year after year. I
have grown sweet peas on the same
ground for several years and last year,
the fourth year, the plants and flowers
were better than ever before. The
varieties were *Blanche Ferry*, *Emily
Henderson* and *Countess of Radnor*.

ANT. C. ZVOLANEK.

Can't Do Without It.

AM. FLORIST CO.:—For enclosed dollar
please extend my subscription to the
FLORIST for 1903. We can't be without
your paper. E. C. STAMMERJOHN.
Boonville, Mo.

It All Depends on Ability.

ED. AM. FLORIST:—What salary ought
a man to receive for superintending the
growing and planting of 200,000 bed-
ding plants each year where there are
nine parks of different sizes and several
street centers? Florist has to look after
the details of growing the plants and
designing the beds and take his place at
the work with the rest of the men.

SUBSCRIBER.

[Every man's salary depends upon the
ability with which he performs the task
assigned him.—ED.]

Brooklyn Hotels.

The Brooklyn Horticultural Society
gives out the following list of hotels near
Brooklyn bridge and accessible to the Ger-
mania Club, where the American Carna-
tion Society meets, February 19-20:

Name	Plan	Rates
The Pierpont.		
Montague and Hicks sts.,	Am. (double)	\$2.50
Charlodon.		
Washington st.,	E p'n (single)	2.00
	E p'n (double)	1.50
St. George.		
Clark st.,	Am. (double)	3.00
Aster House.		
Broadway, New York.	E p'n (single)	1.50
	(double)	\$1 to 1.50
Broadway Central.		
667 Broadway, New York.	Am. and E p'n	1 and upwards

Those who wish accommodations
reserved for them are requested to notify
C. G. Weeber, chairman of the reception
committee, 25 Willow Place, Brooklyn.

All About Lilies.

ED. AM. FLORIST:—Will *Lilium longi-
florum* six inches high January 1 be in
bloom for Easter if grown on in 60° of
heat and given hot water once in awhile?
Is *Lilium candidum* hardy outdoors in
Pennsylvania? Should calla lilies have
much or little water? A. M.

As Easter falls on a late date this year,
a temperature of 60° at night will bring
longiflorum into bloom on time, if the
plants were six inches high on the date
mentioned. It will hardly be necessary
to give them warm water, at least not
until you are convinced that stronger
forcing is necessary to bring them in
bloom on time. It takes about six
weeks in a temperature of 60° to develop
the flowers after the buds are set; and
bearing this in mind, if six weeks before
Easter the buds are not set, the tempera-
ture may be raised 5° or even 10° at
night, and water heated to the tempera-
ture of the house may then be copiously
given. We have found *Lilium candidum*
to be perfectly hardy in the extreme
northern part of Pennsylvania. Callas
require plenty of water and feeding at
this time of the year; but if planted on a
solid bed, which in our opinion should
never be, as it induces too rank a growth,
water should be more judiciously applied.
G.

OBITUARY.

MRS. F. L. WASHBURN.

Frank L. Washburn, of A. Washburn
& Son, Bloomington, Ill., mourns the
loss of his wife, who died January 12,
after an illness of nearly a year. Mrs.

Washburn, nee Aldrich, was 31 years of
age and had been married seven years.
The interment took place January 15.

W. T.

CHARLES WINTER.

Charles Winter, a well-known florist of
Mansfield, Mass., died on January 9,
after a long illness.

MRS. JAMES COLE.

Mrs. James Cole, Sr., wife of the senior
partner of the firm of Cole Brothers,
Peoria, Ill., died January 11, after a
long illness. She was born in England
in 1827 and with Mr. Cole came to
America in 1854. Ten years later they
located in Peoria, where they have seen
a thriving city developed from a mere
village. She leaves a husband and three
sons.

NATHAN G. AXTELL.

Nathan G. Axtell, of Evanston, Ill.,
died January 11, aged 76 years. After
long and useful service in a different occu-
pation, he has for ten years been an
enthusiastic and extensive grower of
sweet peas, selling on the Chicago market.
Lately he has also handled hardy vio-
lets. During the entire civil war he was
a Union officer, returning with the rank
of colonel of volunteers.

S. B. SMILEY.

S. B. Smiley, one of the best-known
florists of western New York, died very
suddenly at his home at Lancaster on
January 9. His original venture in busi-
ness was at Bowmansville, but he soon
moved to Lancaster, where he built up a
prosperous establishment, most of his
crops being sold in Buffalo, where Mr.
Smiley was highly esteemed for his genial
disposition. He leaves a wife, three sons,
and a venerable father and mother who
resided with him.

CLAUDIUS M. RAVIER.

Claudius M. Ravier, who died at
Mobile, January 10, was the pioneer
florist and nurseryman of Alabama, and
a recognized authority at the business
which he had carried on successfully for
the past twenty-seven years, and which
to-day stands a monument to his labor
and ability. It is the largest place of its
kind in the state. Born in France, he was
educated for his trade. After a term in
England he came to America, and spent
several years at Rochester, N. V. In 1869
he landed at New Orleans, where he suc-
cessfully engaged in business. In 1875,
in that city, he married Miss Lucy
Thublin, and with her removed to Mobile
a short time afterwards, and engaged in
business at the place where he died. Begin-
ning with a small piece of ground, at the
time of his death he had on his place
50,000 feet of glass. The first house that
he built stands to-day. The deceased is
survived by his wife, three sons, Louis,
Fred, Claud; one daughter and distant
relatives in France.

JOHN DICK.

John Dick died at Philadelphia, Janu-
ary 13, in his eighty-ninth year. Mr.
Dick was born in Edinburgh, Scotland, in
1814. He came to this country in 1834
with no capital but a sturdy constitution
and a determination to succeed in his
chosen calling. He first obtained employ-
ment with Andrew Dryberg. After sev-
eral years he went into partnership with
James Ritchie, his brother-in-law, at
America and Oxford streets, where they
were quite successful. In 1850 he bought
a plot of ground and erected greenhouses
at Fifty-second and Woodland avenue,
where by careful management he built
up a large business, making a specialty

of hardwooded greenhouse plants, such as camellias, daphnes, and so forth. He also conducted a retail store at 1721 Chestnut street. He retired from active business about fifteen years ago. He was a large and successful operator in real estate. Three daughters and one son survive him. Robert and John Halliday, of Baltimore, are grandsons. The interment was on Friday afternoon in West Laurel Hill cemetery. K.

FRED. L. HARRIS.

Fred. L. Harris, former gardener at the H. H. Hunnewell estate, died at his home in Wellesley, Mass., on Sunday, January 11, aged eighty years and twelve days. Thus passes away the "grand old gardener," best beloved in his profession in America. He stood for all that was noble and manly in American horticulture; a shining example to the young gardener, his record is an encouragement and incentive to ambitious industry. Such men are an honor to any calling and an inspiration to their fellows.

He endeared himself to all who came in contact with him by his courteous kindness, his thoughtful sympathy and his unassuming modesty. Many a fellow gardener can trace his own success in life to the kind words and willing generosity of Fred. Harris. The far-famed estate by Lake Waban, the most beautiful example of landscape gardening art on this continent, which under his guidance and art was transformed from an unadorned waste, is an enduring monument to his ability in his profession. During the forty-six years of his service there the most cordial and sympathetic relations existed between him and his employer and co-worker, the late H. H. Hunnewell.

In the spring of 1900, feeling the infirmities of age creeping on and mourning over the death of a beloved wife, he laid down his cares. At that time a notable ovation was tendered him at the Hotel Brunswick, Boston, in which eminent men in horticulture from far and near united to do him honor. A silver loving cup presented to him on that occasion was among his most prized possessions. For the past year he has been a great sufferer, confined to his room by rheumatic and other affections, but always retaining his interest in "the boys," the Massachusetts Horticultural Society, the S. A. F. and other organizations with which he had long been associated. It had been his earnest desire to welcome a few of his old associates at his home on the occasion of his eightieth birthday, but his waning strength forbade.

The funeral on Tuesday, January 13, was attended by a large concourse of sorrowing friends.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1903 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Situation Wanted—As carnation and mum grower; 5 years at present position. Address A R B, care American Florist.

Situation Wanted—Eight years' experience, all-around; prefer the wholesale selling business. Address LAUT, care American Florist.

Situation Wanted—As working foreman, grower of first-class roses, carnations and mums. Reliable references. J. S. SALMONS, 252 E. Walnut St. Washington, Pa.

Situation Wanted—By a middle aged man, sober and reliable, as assistant florist. Small place preferred, not out of Illinois. Address W H, care American Florist.

Situation Wanted—By good grower of roses, carnations, etc., to take charge of section on good place; first-class recommendations. State wages, etc. Address ALPHA, care American Florist.

Situation Wanted—By single young man on private place as second man; 7 years' experience in orchids, greenhouse plants and general work. First-class references. Address F V, care American Florist.

Situation Wanted—To take charge by experienced grower of roses, carnations and general stock; middle aged, married, sober and industrious. State particulars. A M, Florist 1017 Lawrence St. Philadelphia, Pa.

Situation Wanted—By all-around florist and gardener, first-class references, married, no children; private place preferred; please state wages. Address ANNA House, 102 N. Clark St., Chicago.

Situation Wanted—As head gardener or foreman; German, speaks English, 30 years of age; 14 years' experience. All references; last position with J. Blair, care of Ogden Mills, Staatsburg, N. Y. J. KRAMER, Millbrook, Dutchess Co., N. Y.

Situation Wanted—By experienced landscape gardener and grower of cut flowers and plants. Norwegian, married; just returned from the old country. Have recommends as foreman from good places. T. NORMAN, Williams Bay, Wis.

Situation Wanted—By first-class florist and landscape gardener; 25 years' experience, would like management in good lively retail business, or would take financial interest in the business with small capital with intention to buy eventually. Address R, care American Florist.

Situation Wanted—By florist, German, age 29, single, 15 years' experience in growing of all kinds of cut flowers, palms, ferns and pot plants. A first-class potter and propagator. I work to the interests of my employer and can show best of references. Would like to take charge. Open for engagement February 5. Please state particulars and wages. Address CHARGE, care American Florist, Chicago.

Help Wanted—Girl or young man for store. Address A M, care American Florist.

Help Wanted—Two good quick all-around greenhouse men. C. H. FREY, Lincoln, Neb.

Help Wanted—General all-around seedsman, German with family preferred. Address U S, care American Florist.

Help Wanted—At once, an active young man to work in our orchid houses. Address LAGER & BRELL, Summit, N. J.

Help Wanted—A man to look after about 8,000 feet of glass. Must know how to grow carnations, violets, roses and general stock. Send reference. W W, care American Florist.

Help Wanted—Good all-around cut flower grower, single, for a place near Kansas City. Good pay to the right party. Address GROWER, care American Florist.

Help Wanted—First-class seed man for counter retail trade. Good salary, good future; gilt edged references required. Write full particulars. ANZI GODDEN Co., Birmingham, Ala.

Help Wanted—Plant man, thoroughly capable of taking charge of our mailing plant department. Steady position; reference. Address THE LIVINGSTON SEED Co., Columbus, O.

Help Wanted—Two experienced counter men for western seed house. Give full particulars as to experience, age, salary wanted and references. Steady places for the right parties. Address L P, care American Florist.

Help Wanted—Man who has thorough knowledge of greenhouse boilers and steam fitting, and capable of using a saw and hammer. None but sober, industrious man need apply; reference. THE LIVINGSTON SEED Co., Columbus, O.

Help Wanted—Bright young man, single, wanted at once for counter trade by firm of general seedsman and florists in the south. An energetic man preferred, one who would appreciate a good future. Address C G A, care American Florist.

Wanted—The address of John Anders Hagstrom. Address S. G. BRYFOGLE, Bloomsburg, Pa.

Wanted—Catalogues and price lists of carnations, roses, seeds, bulbs, bedding stock and florists' supplies. Address DEPT. OF FLORICULTURE, Zion City, Ill.

For Sale—Established greenhouse business of about 10,000 feet of glass, with or without ground. Good opening with small capital. Must sell by April 1, 1903. OMO, care American Florist.

For Sale or Exchange.

Fully stocked greenhouses, 20 miles from Chicago, 25,000 feet of glass; steam heat; paying well; part cash, balance good real estate or time to right party. Address

V J 95, care American Florist.

WANTED Man To Run Market Garden on Shares.

Fine chance for experienced gardener. Established asparagus and rhubarb beds, small blackberry and raspberry patches, also apple, peach and cherry orchards. Farm only one mile from limits of city of 25,000 population. Would prefer gardener to run place on shares, furnishing his own tools and labor. Address

A. G. WOODBURY, Danville, Ill.

PARTNER WANTED Man or Woman.

In old established greenhouse business located on Hudson within one hour of New York City. Retail store connected with business. Good chance for right party; am too busy to conduct business myself. For particulars address

FLORIST, care A. J. Dulcher, 7 Broad Street, Peekskill, N. Y.

FOR SALE or PARTNER WANTED.....

MARKET GARDEN—76 acres, 4 greenhouses, hot water heat, fine residence, good barns and out-buildings; 4 acres in berries; telephone connection with city, 20,000 inhabitants. NO competition in the greenhouse vegetables. It will pay to investigate. Address

BOX 191, EAU CLAIRE, WIS.

FOR SALE, GREENHOUSES.

Well established, in good repair, 12,000 ft. glass, fully stocked with fine Carnations, Callas, Starlax; full supply of everything necessary; fine dwelling house; hot water heating; five years ground lease furnished, nine miles from Chicago courthouse. Price \$4,000, three-fourths cash. Good reason for selling. Address

E, CARE AMERICAN FLORIST.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this fall at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address

CHAS. CHADWICK, Lock Box 11, Grand Rapids, Mich.


WANTED!

A young man, married or single, for general greenhouse work and management; must be of good character and a good propagator of all kinds of greenhouse plants. A permanent position with prospects of quick advancement in wages and position. Give references and wages wanted. Address

INDIANA, care AMERICAN FLORIST.

A grower, desirably located, having conducted a most profitable business for some time, is now obliged to refuse good orders on account of lack of capital.

Parties desiring to become jointly interested in a well paying business that will yield excellent returns on an investment, are requested to correspond with the NATIONAL FLORISTS' BOARD OF TRADE NEW YORK.



We did it! What?

Why, filled your orders for the Holidays, and will continue to do so. Send them along.

J. B. Deamud,

51-53 Wabash Ave., Chicago.
L. D. Phone 3155 Central.

Caldwell's Quality Kounts Brand
Wild Smilax now on hand.

The F. R. WILLIAMS CO.

WHOLESALE FLORISTS.

Brides, Maids, Melaors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.

Telephone Connections. **CLEVELAND, OHIO.**

BRUNS'

LILY OF THE VALLEY

Always gives satisfaction. They are strong pips, well rooted, and splendid for early forcing.

\$12.00 Per 1,000. Case of 2,500 \$29.00.
Per 100 \$1.35.

Best Cold Storage Valley, \$15.00 per 1000.

Finest CUT VALLEY in Quantities.

H. N. BRUNS,

1409 W. Madison St., CHICAGO, ILL.

GALAX LEAVES AND Leucothoe Sprays.

J. G. LOVEN, MONTEZUMA, N. C.

Holton & Hunkel Co.

Wholesale Florists,

457 Milwaukee St., MILWAUKEE, WIS.

SHIPPING LABELS FOR

...Cut Flowers

Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples....

ELECTRO OF THIS LEAF, POSTPAID, \$1.25.

American Florist Co.,
CHICAGO.

Wholesale Flower Markets

MILWAUKEE, Jan. 15.

Roses, Beauty, long, per doz.	4 00@ 5 00
" " med. " "	2 00@ 3 10
" " short " "	1 00@ 1 50
" Liberty	15 00@ 18 00
" Bride, Bridesmaid.....	8 00@ 0 00
" Meteor.	8 10@ 10 00
" Golden Gate.....	8 00@ 10 00
" Perle.....	6 00@ 8 00
Carnations.....	2 00@ 3 00
Violets	1 00
Romans, Paper Whites.....	2 00@ 3 10
Callas	10 00@ 12 00
Adiantum.....	.75@ 1 00
Smilax.....	18 00
Asparagus.....	65 00

PITTSBURG, Jan. 15.

Roses, Beauty, specials, per doz.	8 00@ 10 00
" " extras " "	4 00@ 5 00
" " No. 1 " "	2 00@ 3 00
" " No. 2 " "	5 10@ 1 50
" Bride, Bridesmaid.....	8 00@ 10 00
" Meteor.....	8 00@ 15 00
Carnations.....	1 00@ 4 00
Paper Whites, Romans.....	2 00@ 3 00
Tulips	3 00@ 4 00
Lily of the valley.....	3 00@ 4 00
Violets.....	50@ 2 00
Smilax.....	12 00@ 15 00
Adiantum.....	1 10@ 1 25
Asparagus, strinas.....	50 00@ 75 00
" Sprengeri.....	2 00@ 4 00

CINCINNATI, Jan. 15.

Roses, Beauty.....	6 00@ 60 00
" Bride.....	4 00@ 10 00
" Bridesmaid.....	4 00@ 10 00
" Meteor.....	4 00@ 15 00
Carnations.....	3 00@ 6 00
Lily of the valley.....	4 00@ 5 10
Harrisii lilies..... per doz., \$2 50	
Romans Paper Whites.....	2 00@ 4 00
Asparagus.....	50 00
Smilax.....	12 50@ 15 00
Adiantum.....	1 25

St. Louis, Jan. 15.

Roses, Beauty, long stem.....	20 00@ 50 00
" Beauty, medium stem.....	8 00@ 15 00
" Beauty, short stem.....	3 00@ 8 00
" Bride, Bridesmaid.....	4 00@ 10 00
" Golden Gate, Meteor.....	4 00@ 10 00
" Perle.....	4 00@ 8 00
Carnations.....	1 50@ 5 00
Violets.....	1 00
Paper Whites, Romans.....	3 00@ 4 00
Tuberose.....	4 00
Lily of the valley.....	4 00
Smilax.....	12 50
Asparagus Sprengeri.....	2 50
" Plumosus.....	75 00

E. H. Hunt,

WHOLESALE Cut Flowers

"THE OLD RELIABLE,"

76 Wabash Ave., CHICAGO.

Poehlmann Bros. Co.

Wholesale Growers of
and Dealers in Cut Flowers

All telegraph and telephone orders given prompt attention. 35-37
GREENHOUSES: Morton Grove, ILL. Randolph Street, CHICAGO, ILL.

Bassett & Washburn

76 & 78 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of Cut Flowers
GREENHOUSES: HINSDALE, ILL.

The Cincinnati Cut Flower Co.,

437-439 Main St. WHOLESALE FLORISTS.
CINCINNATI, O.

Consignments Solicited.
Special Attention Given to Shipping Orders.

GALAX BRONZE OR GREEN, \$1.00 per 1000; 75c per 1000 in 5,000 lots.

LEUCOTHOE SPRAYS, BRONZE OR GREEN, \$1 per 1000.
FANCY FERNS, \$1.50 per 1000.
GREEN SHEET MOSS, choice stock, \$2.50 bbl. sack.
SPHAGNUM MOSS, \$1.50 per bale.
SOUTHERN SMILAX, per 50 lb. case, \$6.00; per 35 lb. case, \$4.50; per 25 lb. case, \$3.50.
All kinds of FLORISTS' SUPPLIES.

L. J. KRESHOVER, 110-112 W 27th St., N. Y.
CINCINNATI, O., Tel. Call 597 Madison Sq.

H. G. BERNING

Wholesale Florist

1322 Pine St., ST. LOUIS, MO.

RICE BROTHERS

WHOLESALE FLORISTS and FLORISTS' SUPPLIES.

Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.
Special attention given to shipping orders.
Send for price list of supplies.

128 N. Sixth St., Minneapolis, Minn.

C. A. KUEHN,

Wholesale Florist,

1122 PINE STREET,
ST. LOUIS, MO.

A complete line of Wire Designs.

Pittsburg Cut Flower Co., Ltd

WHOLESALE FLORISTS.

Pittsburg, Pa.

Please mention the American Florist when writing.

WE HAVE AT ALL TIMES..

All the staple items to be had in this market and many specialties not to be had of other houses. "Right Goods at Right Prices." Send a Postal if you are not getting our weekly price list, and let us hear from you on all your needs.

TWO LONG DISTANCE TELEPHONES AT YOUR SERVICE, CENTRAL 1977 AND 1999.

E. C. AMLING,

THE LARGEST, BEST EQUIPPED AND MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

32-34-36 Randolph Street,

.....CHICAGO, ILL.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

WHOLESALE Cut Flowers

Florists' Supplies, Seeds, Etc.
Galax and Leucothoe, Wild Smilax.

Special attention given to shipping orders.
Long distance 'Phones, Main 584 and 748.

J. M. McCullough's Sons
316-318 Walnut St., Cincinnati, O.

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.

600,000 FEET OF GLASS.
Headquarters for American Beauties.

51 WABASH AVE., - CHICAGO, ILL.

FRANK GARLAND,

Wholesale
Grower of Cut Flowers

SPECIAL ATTENTION
GIVEN TO HARDY CUT FERNS
55-57 WABASH AVENUE,
Telephone Central 3284 CHICAGO.

FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)
Write, Wire or Phone the Introducing,

Caldwell The Woodsman Co., Evergreen, Ala.
or their agents: L. J. Kreshover, New York; J. B. Desmond, Chicago; H. Bayersdorfer & Co., Philadelphia; W. F. Kasting, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.

American Florist Advertisements
Pay Advertisers.

BENTHEY & CO.

35 Randolph Street, CHICAGO.

F. F. BENTHEY, Manager.
Consignments Solicited.

Wholesale and
Commission FLORISTS

J. A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and
Carnations
A Specialty.....

WHOLESALE
GROWER of CUT FLOWERS

Wholesale Flower Markets

CHICAGO, Jan. 16.		
Roses, Beauty, 36-inch stems		6 00
" " 30 " "		5 00
" " 24 " "		4 00
" " 20 " "		3 00
" " 15 " "		2 00
" " 12 " "		1 50
" " 8 to 8 " "		1 00
" Liberty.....	8 00@20.00	
" Chateaufort.....	8 00@18 00	
" Bride, Bridesmaid.....	6 00@15.00	
" Meteor, Golden Gate.....	6 00@15 00	
" Perle.....	6 00@12.00	
Cattleyas.....	\$5.00 per doz.	
Violets.....	1 00@ 2.00	
Carnations.....	1.50@ 5.00	
Romans, Paper Whites.....	2 00@ 3 00	
Lily of the valley.....	4.00@ 5.00	
Asparagus, per string, .60@ .75		
Adiantum.....	1.00@ 1.50	
Common ferns, per 1000, 2 00		.25
Smilax, per dozen, 1 50		

JOHN MUNO,

Wholesale Grower
and Shipper of Cut Flowers

Room 221, 51 Wabash Ave., CHICAGO.
TELEPHONE CENTRAL 3598. All telegraph and
telephone orders given prompt attention.

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO.
Send for weekly price list and
special quotations on 1000 lots.

GEO. REINBERG,

Wholesale
Grower of Cut Flowers

CHOICE AMERICAN BEAUTIES.

We will take care of your orders at
reasonable prices. Prompt attention.

51 Wabash Ave., CHICAGO, ILL.

HEADQUARTERS IN MICHIGAN FOR
FANCY CUT FERNS.

Michigan Cut Flower Exchange.

FANCY FERNS, \$1.00 per 1000. Dis-
count on large orders. Give us a trial
for Ferns the year around

GALAX, Green and Bronze, \$1.25 per 1000.

28 Miami Ave., DETROIT, MICH.

ALWAYS mention the AMERICAN FLO-
RIST when writing to advertisers.

CATTLEYS. Samuel S. Pennock VALLEY. PHILADELPHIA.

GEO. A. SUTHERLAND Best Boston Flowers
ALL SUPPLIES.
 An entire floor Devoted to Stock and Manufacturing.
 Write now for quotations on Chrysanthemums and all seasonable stock.
 Telephone 1270 Main.

SEND YOUR ORDERS FOR
Flowers of White Carnation LILLIAN POND
 Also MRS. THOS. W. LAWSON. CAN SUPPLY LIMITED NUMBER DAILY.....
WELCH BROS., 15 Province St., ...BOSTON, MASS.

H. C. RIEDEL. F. D. SPICER.

RIEDEL & CO.
WHOLESALE
Commission Florists.

34 West 29th Street,
NEW YORK.

Strictly Wholesale. Correspondence Invited.

THE NEW YORK CUT FLOWER CO.
 55 and 57 West 26th St.,
WHOLESALE FLORISTS,
 Daily Reports. Weekly Payments.
 TELEPHONES: 2239 Madison Sq. J. A. MILLANG,
 2034 Madison Sq. MANAGER.

GEORGE SALT FORD,
 Wholesale Commission Florist,
 46 West 29th Street, NEW YORK.
 Fair dealing and prompt returns guaranteed.
 Correspondence solicited.
 Author of "How to Make Money Growing Violets."

N. F. McCARTHY & CO.
 Best Quality
CUT FLOWERS
 and Supplies,
 Tel. 734 and 64 Main. 84 Hawley St., BOSTON.

Wholesale Flower Markets

BOSTON, Jan. 14.

Roses, Beauty, Edgely, extra	50.00@80.00
" " medium	20.00@35.00
" " culls	6.00@ 8.00
" Bride, Bridesmaid, Meteor	4.00@ 8.00
" extra	12.00@16.00
" Liberty	15.00@25.00
Carnations	2.00@ 3.00
" Special	4.00@ 6.00
Lily of the valley	2.00@ 4.00
Violets	.40@ .75
Paper White narcissi, Hyacinths	1.00@ 2.00
Adiantum	.75@ 1.00
Asparagus	50.00
Smilax	12.50@18.00

PHILADELPHIA, Jan. 14.

Roses, Tea	6.00@10.00
" " extra	12.00@15.00
" Beauty, extra	50.00@ 60.00
" " firsts	25.00@40.00
" Queen of Edgely, extra	50.00@60.00
" " firsts	25.00@30.00
Carnations	2.00@ 6.00
Violets	1.00@ 1.50
Lily of the valley	3.00@ 6.00
Asparagus	25.00@50.00
Smilax	12.50@15.00
Adiantum Farleyense	8.00@10.00

BUFFALO, Jan. 15.

Roses, Beauty	25.00@75.00
" " Bride, Bridesmaid, Meteor	6.00@12.00
Carnations	3.00@ 4.00
Violets	1.50@ 2.00
Paper Whites, Romans	2.00@ 4.00
Lily of the valley	3.00@ 4.00
Smilax	15.00@20.00
Adiantum	1.00@ 1.50

The Philadelphia Wholesale Flower Market.
 Phones, Keystone and Bell.
 1224 CHERRY STREET, PHILADELPHIA.

Is now open and ready for business. Consignments of good stock solicited, especially Valley, Violets and Carnations. Commission, 10 per cent and \$50 annual stall rent, payable monthly in advance. Flowers, choice of this market, carefully packed and shipped at short notice.
 Please mention the American Florist when writing.

Give Us a Trial. We Can Please You.



Roses, Carnations and all kinds of Seasonable Flowers in stock.
WM. F. KASTING, Wholesale Commission Florist,
 481 Washington St., Buffalo, N. Y.
 Dealer in Florists' Supplies and Wire Designs.
 Open Day and Night.

Charles Millang
WHOLESALE FLORIST.

Conservatory connected from which can ship ferns and decorative plants promptly.
 50 West 29th St. NEW YORK
 Tel. 2230 Madison Square.

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg. 6th Ave. and W. 26th St., New York.
 Open for Cut Flower Sales at 6 o'clock Every Morning.....
 DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.
JOHN DONALDSON, Secretary.

It is good business policy to mention the
American Florist
when writing to an advertiser.

THE KERVAN COMPANY

Southern Smilax; Cycas Palm Leaves, fresh and painted; Fern, Galax, Ivy and Magnolia Leaves; Leucothoe Sprays; Holly; Mosses; all green decorative material. The best that grows. We have no other sort. Write for our list of stock with prices.

Telephone, 1519 Madison Sq.

20 WEST 27th STREET, NEW YORK.

White Lilacs and Daffodils Leo. Niessen,

IN QUANTITIES.

On and after Sept. 15th will be open from 7 a. m. till 8 p. m. until further notice.

WHOLESALE FLORIST,
 N. W. Cor. 13th and Filbert Sts., Phila.

FLOWERS SHIPPED BY
JOHN I. RAYNOR

ARE THE BEST PRODUCT OF THE BEST GROWERS FOR THE NEW YORK MARKET.
Adiantum Croweanum 49 W. 28th Street, NEW YORK.
Sold here Exclusively. Tel. 1998 Madison Square.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.
Are supplying the most superb stock of FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.
SEND FOR QUOTATIONS.

Walter F. Sheridan,
Wholesale Florist,

Telephone 902 Madison Square.
39 West 28th St., NEW YORK.

Telephone Nos. 2239 and 2034 Madison Square,



MOORE, HENTZ & NASH
Wholesale Commission Florists.

55 and 57 West 26th St. NEW YORK CITY.
Advice of sale note daily. Statement and check weekly. All consignments, large or small, receive the same attention. CORRESPONDENCE INVITED.

VIOLETS. WILLIAM GHORMLEY, VIOLETS.
Wholesale Commission
Daily Receiver and Shipper of Fresh Cut Flowers.
Orchids, Roses, Carnations, Valley, Chrysanthemums.
Telephones 2100 and 2200 Madison Square. **57 West 28th Street, NEW YORK CITY.**

JOHN YOUNG
Special American Beauties,
Surpassing Carnations,
Lily of the Valley, Orchids,
and all Seasonable Flowers.
51 West 28th St., NEW YORK.
Tel. 1906 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN
NEW YORK CITY FOR
Violets and Carnations
GROWERS and BUYERS make a note of this. It
will be to your advantage.
WM. H. GUNTHER,
80 West 29th St., New York.
Telephone 651 Madison Square.

Frank Millang
Open from 6 a. m. to 5. p. m.
Cut Flower Exchange, 55-57 W. 26th St.
Phone 299 Madison Square. **NEW YORK.**

ESTABLISHED 1872.
JOHN J. PERKINS,
COMMISSION FLORIST,
Solicits Consignments or Shipping
Orders. Satisfaction given in both.
Tel. 856 Madison Sq. 115 West 30th St., New York.

Bonnot Bros.
WHOLESALE FLORISTS.
66 and 67 W. 26th St. **New York.**
OPEN 6:00 A. M.
An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.
Traendly & Schenck
NEW YORK CITY,
38 W. 28th Street, Cut Flower Exchange.
New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets
NEW YORK, Jan. 14.
Roses, Beauty, Edgely, best 51.00@75.00
" " medium 20.00@40.00
" " inferior 5.00@10.00
" " Bride, Bridesmaid 4.00@ 8.00
" " " best 10.00@20.00
" " Meteor, Golden Gate 6.00@12.00
" " Liberty 10.00@40.00
Carnations 3.00@ 4.00
" " Fancy and novelties 4.00@ 6.00
Violets 30@ 1.00
Lily of the valley, Daifodils 2.00@ 4.00
Cattleyas 50.00
Romans, Paper Whites 1.00@ 2.00
Smilax 8.00@10.00
Adiantum50@ .75
Asparagus 35.00@51.00
" Sprengerl, doz. bun. 3 00

J. K. ALLEN
Wholesale Commission Dealer
— IN —
Cut Flowers
106 W. 28th St., NEW YORK.
Telephone 167 Madison Square

FORD BROS.
Receivers and Shippers of
FRESH FLOWERS,
111 West 30th St., **NEW YORK.**
Telephone 157 Madison Square.

REPRESENTING EMINENT GROWERS.
Julius Lang
53 West 30th Street, NEW YORK.
COMMISSION DEALER in FLOWERS
TELEPHONE 280 MADISON SQUARE.

ALEX. J. GUTTMAN,
Wholesale Commission Florist,
A full supply daily of the choicest
New York and New Jersey
FLOWERS.
52 W. 29th Street, **NEW YORK CITY.**
Telephone 1738 Madison Square.

A. H. LANGJAHR,
Wholesale Commission Florist,
BEST FLOWERS SHIPPED AT LOWEST
NEW YORK PRICES.
19 Boerum Place, **Brooklyn, N. Y.**
TELEPHONE 939 MAIN.

Hicks & Crawbuck,
WHOLESALE FLORISTS
NEW YORK: 45 West 29th Street. Tel. 2798 Madison Sq.
BROOKLYN, N. Y.: 108 Livingston Street. Tel. 3660-3661 Main.

EDW. C. HORAN,
55 WEST 28TH STREET,
Telephone 421
Madison Square.NEW YORK.
CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Withersfield, Conn., Sec'y and Treas.

VISITED CHICAGO: T. H. Hopkins, with the John H. Allan Seed Company, of Picton, Ont., enroute to Sturgeon Bay, Wis.

THE Kansas City Review of January 5 gives a complimentary notice of the growing business of the Trumbull Seed Company, established in 1872.

THE old Northrup, Braslan, Goodwin Company matter still hangs fire in the U. S. courts because of suit by the National Bank of Waterville to set aside the original assignment.

American Seed Trade Association.

The executive committee of the American Seed Trade Association met at the Shoreham Hotel, Washington, D. C., January 13, there being present President Walter P. Stokes, Secretary S. F. Willard, H. W. Wood, W. H. Grenell, Albert McCullough and F. W. Bolgiano. The programme was arranged for the annual convention to be held at Philadelphia, and Atlantic City June 23-25. Walter P. Stokes and Albert McCullough were appointed delegates to the National Board of Trade.

The European Seed Trade.

The first two or three weeks in December are certainly among the busiest of the whole year, for this is the time when the larger part of the catalogues are dispatched; everyone tries to hurry on its issue as much as possible, so that certain traits take their way by wagon loads. The number of pamphlets and catalogues sent out from Erfurt and Quedlinburg during the season must nearly approach half a million.

On account of the wet autumn, which seriously delayed the gathering and drying of the crops, the prices could not be fixed at the ordinary time and in consequence the catalogues appear this year some days later than usual. The quotations show certain changes compared with last year's, which, generally speaking, was more favorable for the normal development and ripening of the seeds. Our readers will remark that those seeds which came to early maturity, such as chervil, spinach and turnips, show generally lower prices. Then in September the rain commencing spoiled a certain part of the pea crop, which finds its expression in somewhat higher prices, especially the later varieties being quoted far higher than ordinary.

The so-called October crops, such as lettuce, onions, parsley and cucumber, having suffered greatly by the humidity, show generally much higher prices, while cabbage, carrots and radishes are partly cheaper and partly dearer than last year on account of the good crop in France and the Netherlands, otherwise these articles would all have risen, for the crop in Germany turned out at last considerably below the average. In general we dare say the foreign crops have

influenced to a certain extent the prices of the German growers.

Business is slowly commencing and especially for articles in demand, like chervil, large-rooted Magdeburg onions, Zittau and blood-red are also much asked for. The trade will probably get brisk, the greater part of the stocks on hand being cleared out last year.

The French growers and dealers complain much of low prices but the quantities at their disposal, being sufficient, it may be presumed that they will deal at the usual profits.

The quality of the seeds produced this year leaves much to be desired with regard to germinative power. This is the case in almost all Continental seed-growing countries and a consequence of the enormous humidity and low temperatures during the harvest season. The flower seeds seem to have been less influenced by the unfavorable conditions of weather, only the varieties ready in October, such as asters, zinnias, scabiosa and tagetes, will show weaker germinative power than usual but the damage does not appear to be important.

The present year is very rich in novelties, both in vegetables and flowers; some of them, like the Waldersee aster, and Glora dahlia are worthy of note. Generally speaking, Erfurt and Quedlinburg are no places for raising novelties, which has become quite a branch of commerce in certain houses and districts.

We will not close our report without saying a few words concerning the weather during the months of November and December. After an abnormally wet summer and autumn there followed suddenly a long period of heavy frost which came quite unexpectedly and in consequence did much damage. A curious thing is that a good deal of sugar beet froze in the earth, so that it was entirely lost for the manufacturers, a

misfortune occurring very rarely in our climate. The beginning of December brought heavy snowfalls accompanied by cold winds, the temperature fell rapidly, on some nights down to 8° Fahrenheit, a temperature which the renowned "coldest inhabitant" cannot remember since the war of 1870. In the middle of December the weather changed completely, we had some mild and sunny days melting away all ice and snow so that the earth is now again without the protecting snow cover, without which sudden sharp frost might do great damage here.

Poughkeepsie, N. Y.

The eighth annual banquet of the Dutchess County Horticultural Society, January 8, was a record-breaker, taxing the capacity of the banquet hall of the Nelson House to the utmost, 120 participating. The speakers were such past masters of their art as Frank B. Lown, Richard E. Connell, E. Lyman Brown, W. H. Wood, Hon. John I. Platt and A. Lee Wager. There were two toastmasters, Frank Hasbrough and F. B. Lown, and oratory full of wit, satire and wisdom was on tap for several hours, and instructions given in raising everything from Cain to farm mortgages, particularly the former. Tables laden with floral decorations and flowers of rhetoric bloomed freely.

OVER 2,000 ACRES IN CULTIVATION.

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Correspondence solicited. **SAN JOSE, CAL.**



A 1902 Crop of Yellow Strasburg Onion after passing through the cleaner.
A crop of Australian Brown Onion can be seen at a distance on sheets.

SPECIAL OFFER OF SPIRAEA AND BULBS FOR EASTER FORCING.

SPIREA FOR EASTER FORCING. We offer a few cases each of the following sorts, as below, as long as unsold. These can be shipped safely by freight as it will not injure them in the slightest if frozen. There is plenty of time to get them in for Easter, if wanted, and they also make good stock for Decoration Day. Now is the time to lay in a stock, before they are all sold. **Japonica and Compacta Multiflora**, case of 250 clumps for \$8.00; in less quantities, \$1.00 per 100. **Astilboides Floribunda**, case of 250 clumps for \$10.00, in less quantities, \$5.00 per 100.

JAPANESE FERN BALLS. Best Quality, \$25.00 per 100. The surplus bulb stock recently offered has sold fast, but we can still supply the following in first-class shape as long as unsold at prices named below.

SMALL SIZED NAMED HYACINTHS. These are splendid for Easter forcing, and are fine for growing in pans or pots. Nothing is more readily salable. Price is very low, and the bulbs bare, first class - remarkably good for the low price at which they are offered. They will throw almost as good flowers as the larger and higher priced bulbs. If you have never flowered these, try a thousand or two. You will be pleased with the results; they cannot fail to make money for you.

The following pink varieties at only \$1.50 per 100, \$12.00 per 1000 (worth \$16.00 per 1000), viz.: Baron van Thuyll, Gen Pelissier, Gertrude, Gigantea, Robt. Steiger and Solfatara.

The following blue varieties at only \$1.50 per 100, \$12.00 per 1000 (worth \$16.00 per 1000), viz.: Grand Maitre, King of the Blues, La Peyrouse, Chas. Diekens, Blondin, Czar Peter; also Tamerlan (yellow).

The following white varieties at only \$2.00 per 100, \$16.00 per 1000 (worth \$22.00 per 1000), viz.: Baroness van Thuyll, Grandeur a Merveille, Blanchard, L. Immeuble, Mme. Van der Hoop, and Paix de l'Europe.

FINE NAMED HYACINTHS, Single and Double. We offer a limited stock of the following varieties in a standard bulb, at \$3.00 per 100; \$25.00 per 1000 (worth \$35.00 per 1000), viz.: La Peyrouse, Regulus, Tamerlan, Grand Lilas, La Pluie d'Or, Grandeur a Merveille, Blocksberg, Bouquet Tendre, Czar Nicholas, Crown Prince of Sweden, Flevo, Garriek, Grootvorst, Gen. Antinek, King of Wurtemberg, La Tour d'Auvergne, La Virginite, Lord Anson, Lord Raglan, Othello, Prince of Orange, Prince of Saxe-Weimar, and Princess Royal.

HYACINTHS IN SEPARATE COLORS. We still have a few of these left in singles and doubles, which we offer as long as unsold at \$2.50 per 100, \$20.00 per 1000, (worth \$26.00 per 1000).

WHITE ROMAN HYACINTHS. We still have a few cases of 12-15 cms. bulbs, which we offer as long as unsold at \$15.00 per 1000 (worth \$25 per 1000).

TULIPS, Single and Double. Most of the varieties here offered are among the very best forcing varieties, especially for late or Easter forcing, viz.: Rosamun fi, Huykinan, Bizard Verduet, Couleur Ponceau, La Candeur, Yellow Rose, Lady Grandison, Duke of York, Rose Blanche, and Count Leicester at \$5.00 per 100; Cottage Maid, Joost van Vondel, Brutus, Pannonia Red at \$6.00 per 1000; Tournesol Red and Yellow, Gloria Solis, Le Blason, and Rosine at \$7.00 per 1000; Pottebakker White, Duc van Tholl Searlet and Standard Royal Silver at \$7.50 per 1000, Rose Grisdelin, Belle Alliance, and Marriage de ma Fille at \$10.00 per 1000; Proserpine at \$12.00 per 1000; White Joost van Vondel and Rose Luisante at \$20.00 per 1000.

NARCISSUS. Trumpet Major and Single Von Sion at \$6.00 per 1000; Poeteus Ornatius and Barri Conspectus at \$5.00 per 1000; Silver Phoenix and Grandis Maximus at \$15.00 per 1000.

THE F. R. PIERSON COMPANY, Tarrytown-on-Hudson, New York.

New Crop Flower Seeds for Present Sowing.



**SWEET SCENTED
MAYFLOWER
VERBENA**

	Trade Pkt.	Oz.
AGERATUM , Blue Perfection .....	.10	.30
Princess Victoria Louise, new, dwarf, .....	.10	.50
ALYSSUM , Vaughan's Little Gem, extra Maritimum, sweet, .....	.05	.15
AMPELOPSIS Vetchi,	lb. \$1.00	.10
ASPARAGUS Sprengeri, 1000 seeds, \$1.50; 100 seeds, 30c,		
ASTER , Queen of the Market, white, pink, purple, light blue, scarlet, each, .....	.10	.50
The Carlson, white, pink, rose, lavender, each, 1/4 oz., 50c	.20	1.25
Branching, pink, lavender, purple, each, .....	.10	.85
white, .....	.10	.60
rose, .....	.10	.75
red, .....	.10	1.00
mixed, .....	.10	.50
BEGONIA Vernon, .....	.15	3.50
Duchess of Edinburgh, new pink, .....	.25	
BELLIS (Daisy) Mammoth white, 1-16 oz., 50c, .....	.25	
Mammoth mixed, 1-16 oz., 10c, .....	.25	
Longfellow, pink, 1/8 oz., 40c, .....	.15	

	Trade Pkt.	Oz.
BROWALLIA speciosa major, .....	.25	.50
mixed, .....	.10	.40
CANNA , Crozy vars., best mixed, lb., \$1.00 Chicago, Florence Vaughan, Chas. Henderson David Harum, Francois Reif, each per 100 seeds, 30c,		
CANOYTUFT Giant, hyacinth-flowered white (better than Empress) .....	.10	.30
CELOSIA (Coxcomb) Pres. Thiers .....	.25	1.50
CENTAUREA canoidissima, 1000 seeds, 25c Gymnocarpa, .....	.10	.40
Imperialis, white (better than Margaret), .....	.10	.50
CLEMATIS paniculata (sow now, sure) .....	.15	.50
New Coccinea hybrids, .....	.15	.75
CINERARIA maritima, .....	.10	.30
Maritima "Diamond" new, .....	.25	
COBAEA scandens, purple, 1/2 oz., \$1.00, .....	.10	.30
DAISY Burbank's new Shasta, true, .....	.25	
ORACAENA indivisa, .....	.10	.30
GERANIUM apple-scented, 250 seeds, 35c,		
GREVILLEA robusta, .....	.10	.40
HELIOTROPE , Lemoine's Giant, mixed, .....	.25	
HOLLYHOCK Allegheny, best mixed, .....	.25	1.00
Allegheny, white, new, .....	.50	
These Allegheny Hollyhocks, if sown now, will bloom the first year.		
IPOMOEA noctiflora, white seeded Moon-flower, .....	.15	.50
New Hybrid Moonflower, .....	.15	.50
KENILWORTH IVY (Linaria Cymbalaria) New white, .....	.20	
1/4 oz., 40c, .....	.25	
LEMON VERBENA, .....	.15	1.25
LOBELIA Crystal Palace Compacta, .....	.25	
Bedding Queen, .....	.10	1.00
Emperor William, .....	.10	.75
Speciosa (trailing), .....	.10	.75
White Lady, dwarf white, .....	.15	
MAURANDYA , mixed, .....	.10	.50
MIGNONETTE Giant Machet, selected, .....	.20	1.50
Machet, .....	.20	1.50
Bismarck, an improved Machet, .....	.20	1.50
MIMULUS moschatus, Musk Plant, 1/2 oz., 20c, .....	.10	
New Large-Flowering Hybrids, .....	.15	
OXALIS tropaeoloides, .....	.15	
PANSY , Vaughan's International Mixture, .....	.50	10.00
Vaughan's Giant Mixture, .....	.25	4.00

	Trade Pkt.	Oz.
PANSY , Vaughan's Premium Mixture, .....	.25	5.50
Trinardew, mixed, Giant-Flowered, .....	.10	1.00
Chicago Parks Mixture, .....	.10	1.00
Masterpiece, .....	.25	6.00
PETUNIA , "Vaughan's Best" mixture of large-flowering single Petunias, the best in existence, .....	.50	
Giants of California, .....	.35	
Double Large-Flg. Fringed extra choice mixed,	1.00	
Blotched and Striped (Inimitable), .....	.10	.75
Dwarf Inimitable, .....	.25	
PRIMULA obconica, large-flowering white, rose or mixed, each, .....	.25	
PYRETHRUM aureum, Golden Feather, .....	.10	.40
SALVIA splendens, "Drooping Spikes," best, .....	.15	2.00
Clara Bedman, very early, dwarf, .....	.25	2.50
New "Triumph," early, .....	.25	
Silverspot, .....	.25	
Golden Leaved, .....	.25	
SMILAX, .....	.10	.30
SOLANUM (Jerusalem Cherry), .....	.10	.30
STOCKS , large flowering ten weeks, white, rose, light blue, crimson, dark blue, blood-red and extra choice mixed, each,		
1/8 oz., 40c, .....	.25	
Imported collection of 6 varieties, 30c,		
Imported collection of 12 varieties, 50c,		
Snowflake, for forcing, white, .....	.50	
THUNBERGIA mixed, .....	.10	.30
VERBENA , Mammoth White, scarlet, rose, purple, each, .....	.25	
Mammoth, mixed, extra choice Mayflower, best pink, .....	.15	1.00
De-flange, fine scarlet, true, .....	.10	1.00
"Vaughan's Best" mixture, there is no better or more complete mixture in existence, .....	.25	2.00
1/4 oz., 50c, .....	.25	
TORENIA Fournieri grandiflora, .....	.25	
White Wings, .....	.20	
Fournieri Compacta, .....	.25	
VINCA rosea, rosea fl. alb., rosea albo-pura and mixed, each, .....	.15	.50

TEN PER CENT DISCOUNT FOR CASH WITH ORDER AMOUNTING TO TWO DOLLARS OR OVER.

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The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class.

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Hybrid Carnation SEED MIXED.

Seed from Lawson, Gov. Roosevelt, Wolcott, Violantia, Apollo and Golden Beauty, 100 seeds \$1.00. Standards, 100 seeds, 25c.

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Pansies Worth Raising.

Strong plants, \$4.00 per 1000; \$2.50 per 500; \$1.00 per 100, f. o. b. express here. Cash with order.

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American Florist

When you write to an advertiser.

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We shall have pleasure in quoting special low Contract prices for seed of the under-noted varieties, which we have grown very extensively in Surrey, Essex and Lincolnshire, our principal effort being to produce the very best strains and supply them direct to the Trade at the most moderate prices. Visitors to England are cordially invited to call and inspect our trial grounds and growing crops.

PEAS.

The following are carefully saved from English grown varieties and may be relied upon for "Stock seed" or other purposes:

Alaska,	Notts' Excelsior,
Alderman,	Sutton's A. 1.
Autocrat,	Sutton's Excelsior,
American Wonder,	Sharpe's Queen,
Bountiful,	Stratagem,
Daisy,	Sangster's No. 1.
Duke of Albany,	The Stanley,
Duke of York,	Veitch's Perfection,
English Wonder,	William Hurst,
Gradus,	William the First,
Lightning or Earliest of All,	Yorkshire Hero, etc.

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Colossal Long Red,	Yellow Intermediate,
Colossal Long Yellow,	Champion Yellow Globe,
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Egyptian Turnip,	Globe Varieties,
Exhibition Long Red,	Improved, etc., etc.

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OUR DIRECTORY FOR 1902 WILL BE MAILED TO YOU PROMPTLY UPON APPLICATION. PRICE TWO DOLLARS.

CABBAGE.

First and Best Early, London Market,	Selected Nonpareil, Drumhead Varieties, Etc., Etc.
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CARROT.

Early Market, New Intermediate, Etc.,	Long Surrey, Selected Altringham, Etc.
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RUTA BAGA.

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Early Snowball, Aberdeen Yellow Varieties, etc., etc.	Yellow Tankard.
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Specialists in Giant Market Fancy Pansies "CORONATION STRAIN," \$4.00 per ounce, post free.

Wholesale Catalogue Mailed free on application. Special offers made on receipt of quantities required.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.

CHAS. A. ILGENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y. Twenty-eighth annual convention, Detroit, Mich., June, 1903.

PROF. JOHN T. STINSON, of Mountain Grove, Mo., has been appointed superintendent of pomology in the department of horticulture at the St. Louis Exposition.

CRIMSON RAMBLER roses will be very scarce this spring and consequently higher in price. The early frosts killed thousands in Holland, whence we receive considerable of our supply.

THE park board of Memphis, Tenn., is to make extensive improvements in the park lands of that city. Chairman Robert Galloway estimates that an expenditure of \$50,000 per year for ten years will be necessary.

THE Illinois Central Railroad is encouraging the fruit growing industry along its line in Mississippi, much of which land is admirably adapted to peaches and small fruit. Capt. J. F. Merry, A. G. P., at New Orleans is in charge of the work.

THE United States Department of Agriculture, through its pomological division, is carrying on investigations of the underlying principles which govern the keeping of fruits in cold storage. The work is in the immediate charge of G. Harold Powell, the assistant pomologist of the department.

Detroit.

CLUB HOLDS A GOOD SESSION.—NO SHOW NEXT YEAR.—MERITORIOUS EXHIBITS.—GROWERS HAVE NO EASY LIFE.—VARIOUS NOTES.

The club meeting of January 7 was fairly well attended. Only business of a miscellaneous character was transacted. Another candidate was admitted to membership in the club. Consideration of the proposed flower show next fall resulted in the abandonment of the project and the energies of the club will, in the meantime, be directed in the interests of the carnation meeting, which is almost assured for this city in 1904. Several of the local florists will attend the Brooklyn meeting, when the formal invitation of the club will be extended to the carnation society. Chas. Frueh & Son, of Saginaw, Mich., had on exhibition a red seedling carnation. The flowers were not extraordinary in size but of good color and on long, stiff stems and were favorably commented upon. Hopp & Lemke, of Grand Rapids, sent for exhibition a new rose which was not accompanied with pedigree but seemed to bear resemblance to old Bon Silene but showing much stronger growth and large blooms, quite double and was considered a valuable acquisition. S. Alexander, who has served as park botanist for some time, was present at the meeting and gave a review of his work here and outlined some ideas which he was anxious to execute, if retained in the same capacity, whereupon the club endorsed his work and recommended his retention by the Park Commissioner. A practical demonstration of a thermostat was given by its manufacturer, who easily proved its utility.

Zero weather with plenty of snow and wind is adding much hardship to the life of the growers, who are still enduring the high prices and scarcity of coal and some are reducing the temperature of the

most unproductive houses to the freezing point, in their efforts to save fuel. Violets have been and are still quite scarce, while the demand for them continues active. The same is true of roses, while carnations are in fair supply and about equal to the demand.

Robert H. Flowerday, son of Robert Flowerday, leaves this week to accept a position with the American Car and Foundry Company, at St. Louis.

Chas. Schaible has again entered the retail business and has opened a store at 719 Woodward avenue.

Wm. Dilger made a business trip to Toledo last week.

Visitors: C. W. Scott, A. L. Vaughan and A. Ringier, Chicago; Chas. Schwake and Ralph Ward, New York. J. F. S.

Minneapolis.

SCARCITY OF STOCK MAKES GOOD MARKET FOR BULBOUS MATERIAL.—BASKETRY THE FAD.

The scarcity of roses, carnations, and so forth, has caused quite an active demand for Paper White narcissi and Romans. Growers who have had a supply of these old-time favorite bulbous flowers are realizing a good profit on them. The death of some of the most prominent residents of Minneapolis

created a large demand for funeral work the past few days. Northrup, King & Company are doing a large business in raffia and other basketry materials. The basket-making craze seems to have taken a firm hold on Minneapolis. Some months ago this firm secured the services of a competent teacher, who gives lessons in the store, charging 50 cents a person. They have found this to be a profitable move, as it not only attracts people to the store but creates a demand for raffia and other materials as well. D.

JENKINTOWN, PA.—The greenhouses of C. R. Newbold were destroyed by fire January 11, loss \$10,000.

NEW LONDON, CONN.—The newly organized Gardeners' and Florists' Club has elected as officers; President, John Maloney; vice-president, Wm. H. Corkey; secretary, H. H. Appeldorn; treasurer, John Silva. It was decided to hold meetings the first and third Tuesdays of each month.

OTTAWA, ILL.—Fred. J. King has been confined to the house since Christmas through illness. He is now on the way to recovery and will be out again as soon as the weather moderates. His stock is in fine condition, but withal he could not anywhere near supply his Christmas trade.

Hardy Herbaceous Plants.

Japanese Iris, German Iris and Paeonias, Specialties.

Golden Glow, Eulalias, Day Lilies, Hardy Sunflowers, Dragon's Head, Cone Flowers, Boltonias, Sedums and a long list of other valuable kinds in large supply. Please write for lists of varieties and prices; they will probably surprise you.

J. T. Lovett, Little Silver, N.J.

Rhododendron Maximum AND Kalmia Latifolia

The two best native Evergreen Shrubs for out-of-door ornamentation. Furnished by car load lots or in smaller quantities. Send for prices, also Special Rhododendron circulars. Fine lot of general nursery stock.

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Almost half a century of fair dealing has given our products that prominence which merit deserves. We still offer everything of the best for

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Correspondence solicited. Catalogue and Trade List free. 49 years, 44 greenhouses, 1000 acres.

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400,000-ONE YEAR CAL. PRIVET.

10 to 12 inch, \$6.00 per 1000; 12 to 15 inch, \$8.00 per 1000; Cuttings, 8 inch tied 250 in bunch, \$8.00 per 10,000; \$75.00 per 100,000. Have in stock 2, 3 and 4 year, 2, 3, and 4 feet.

RIVER VIEW NURSERIES,

J. H. O'Hagan, LITTLE SILVER, N. J. Please mention the American Florist when writing.

CLIMB'NG SOUPERT.

STRONG, field plants, well branched, for 6 to 8-inch pots, \$15 per 100; for 1 to 5-inch pots, \$10 per 100; 2 1/2-inch plants, \$5 per 100.

BOSTON FERN, 2 1/2-in., \$4 per 100; \$35 per 1000 The Conard & Jones Co., West Grove, Pa.



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Descriptive Illustrated Catalogue Free.

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Tree Seeds.

Our new descriptive CATALOGUE OF SEEDS of American Conifers, Trees, Shrubs, Palms, Cacti, Herbaceous Plants, etc., has been mailed to the trade. A postal will bring it to you.

PINEHURST NURSERIES, Pinehurst, N. C. Otto Katzenstein, Mgr.

DREER'S Reliable FLOWER SEEDS.

Following is a short list of things which should be sown early; all are new crop of the finest possible quality and are ready for immediate delivery, except the Asparagus, which will be ready about the end of this month. Place your order now and delivery will be made as soon as the new seed arrives. For a complete list of Flower Seeds, etc., see our new Wholesale Price List for January.



SALVIA "BONFIRE."

	Trade Pkt.	Oz.		Trade Pkt.	Oz.
AGERATUM, Blue Perfection, dark	.15	.50	DRACAENA indivisa	.10	.30
" Cope's Pet, light	.15	.35	GREVILLEA robusta	.15	.40
ALYSSUM Little Gem, very dwarf	.10	.25	HELIOTROPE, Lemon's Giant	.40	2.00
" Tom Thumb, compact	.10	.20	IPOMOEA grandiflora (Moon Flower)	.15	.50
" Sweet trailing	.10	.15	LOBELIA Crystal Palace Compacta	.30	1.25
ASPARAGUS plumosus nanus, \$1.00 per 100 seeds, \$7.50 p. r. 1,000 seeds.			PETUNIA, Dreer's Superb Double Fringed the finest strain of double petunia in the whole world, 500 seeds 75c; 1,000 seeds \$1.50		
Sprangeri 15c per 100 seeds; \$1.25 per 1,000 seeds.			PETUNIA, Dreer's Superb Single Fringed	.50	
ASTER Queen of the Market, white, pink, crimson or purple	.20	.60	PYRETHRUM aureum (Golden Feather)	.10	.25
" Queen of the Market, finest mixd.	.15	.50	SALVIA splendens (scarlet sage)	.25	1.00
BEGONIA semp-florens, mixed	.25		" Bonfire, dwarf, compact	.40	2.25
BROWALLIA speciosa major	.50		SMILAX	.10	.30
CENTAUREA candidissima	.25	1.50	SULANUM capsicastrum (Jerusalem cherry)	.10	.30
gymnocarpa	.15	.35	STOCKS, large flowering 10 week, separate colors	.40	2.25
CINERARIA maritima	.10	.20	STOCKS, large flowering 10 week, finest mixed	.30	2.00
COBAEA scandens	.10	.30	VERBENA, Dreer's Mammoth, separate colors	.30	1.50
CYCLAMEN persicum giganteum in separate colors, 75c per 100 seeds; \$6.00 per 1,000 seeds.			" Dreer's Mammoth, finest mixed	.25	1.00
Finest mixed, 60c per 100 seeds; \$5.00 per 1,000 seeds.			VINCA rosea, alba and alba pura, mixed	.15	.50
DAHLIA, new single, Twentieth Century, 17c per pkt.; 5 pkts., 75c; 12 pkts., \$1.75.				.15	.40

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA, PA.

The Burpee Quality in Seeds

Best that can be Grown! The new "Silent Salesman" of the largest mail-order seed trade in the world will be sent with 184 pages of useful information and hundreds of true illustrations,—if you mail a postal to **W. Atlee Burpee & Co., Seed Farmers, Philadelphia**

Blue List of wholesale prices mailed only to those who plant for profit.



BULBS, Azaleas, Palms, Etc.

I am now booking orders for **Bulbs and Plants** for full delivery and recommend my firm to the kind consideration of the trade.

I stand on the **HIGH GRADE QUALITY** platform of... and have the best sources of supply to sustain me.

For Spring Delivery Fine young plants for growing on, such as **PALMS, ARAUCARIAS, FICUS, Etc.**, from the celebrated nurseries of **AD. D'HAENE CO., Ltd., Ghent.** Perfect plants, reduced prices. Write for catalogue and order early.

CHAS. F. MEYER, 19 Barclay Street, NEW YORK.
 Importer and Sole Representative of the **AD. D'HAENE CO., LTD., Ghent, Belgium.**

FARQUHAR'S RELIABLE FLOWER SEEDS For Immediate Sowing.

AGERATUM Mexicanum	per ounce,	\$.30
ASTER American Branching, mixed		1.00
American Branching, separate colors		1.00
Queen of the Market mixed		.50
Queen of the Market, separate colors		.60
CANDYTUFT Giant White	1/4 pound, \$1.00;	.30
CENTAUREA Gymnocarpa		.40
CARNATION Marguerite, choice mixed		1.25
CYCLAMEN Columbian Prize		
Farquhar's Giant White	100 seeds, \$1.25; 1000 seeds, \$10.00	
Farquhar's Giant Pink	100 seeds, 1.25; 1000 seeds, 10.00	
Farquhar's Giant Crimson	100 seeds, 1.25; 1000 seeds, 10.00	
LOBELIA Crystal Palace Compacta	1/4 ounce, 50c; ounce,	1.25
LOBELIA Gracilis		.40
MIGNONETTE Evan's Boston Giant		1.00
MIGNONETTE Machel		.50
PETUNIA California Ruffled Giant	1-32 ounce, \$1.25	
SALVIA Glory of Stuttgart, very fine		.25
SALVIA Bonfire		.25
STOCK Cut-and-Come-Again White		3.00
STOCK Farquhar's White Column	1/4 ounce, \$2.00	
SWEET PEAS	Oz.	1 lb.
Earliest of All	\$.10	\$ 15
Extra Early Blanche Ferry	.05	.10
Mont Blanc	.10	.20
Katherine Tracy	.15	.10
New Countess	.05	.10
VERBENA Farquhar's Mammoth Hybrids, mixed		1.00
VERBENA Farquhar's Mammoth Hybrids, separate colors		1.50

If less than 1-4 Oz. of a kind is ordered a proportionate advance in price will be charged.

R & J. FARQUHAR & CO., 6 and 7 S. Market Street, BOSTON.

Please mention the American Florist when writing.

GLADIOLI OUR MOTTO: QUALITY FIRST.

We have, however, a sufficient quantity to supply all demands. Send for Catalogue.

ARTHUR COWEE,

"Meadowvale Farm," Long Distance Phone 9x. Berlin, N. Y.
 United States Grower and Representative of GROFF'S HYBRIDS.

Butte, Mont.

CLARK FUNERAL MAKES GREAT DEMAND FOR EXPENSIVE DESIGNS.—BUILDING IN PROSPECT.

Several large funerals have kept the florists of Butte very busy since the holidays. One in particular was that of the daughter-in-law of Senator W. A. Clark. It is estimated that there was at least \$5,000 spent for flowers for that occasion. Law Brothers put up several pieces for which they received \$200 each. The Butte Floral Company was very busy turning out floral emblems, while the State Nursery Company had their share. There were some beautiful and expensive pieces from Salt Lake City, turned out by the Salt Lake Floral Company and the Huddart Floral Company.

It is whispered around that there will be considerable building of new greenhouses in Montana the coming season. Law Brothers have already material on the ground for a new house 22x125. They having remodeled their whole plant last year, now have the best equipped place in the state, although the State Nursery Company has the largest glass area.

The Butte Floral Company has the best heating system on record, as they heat their houses by natural hot water and the system has given perfect satisfaction.

There is a move on foot now to organize a florists' society in Butte. There are several good bowlers here who may be heard from later. MOUNTAINEER.

Washington, D. C.

The continued cloudy weather has retarded the flowering of stock in general but now the weather is much colder and the prospects are that we will get a few bright days. Business is not brisk. J. H. Small & Sons had the decoration for the first bachelors' cotillon.

Visitors: Thomas J. Wade, now with August Rhotert, New York. P. G.

SPRINGFIELD, O.—Charles Unglaub's greenhouses were damaged by fire on the night of January 4. They will be rebuilt in the spring, the loss, including injury to stock, approximating \$2,500. It is said that Mr. Unglaub started in business fifteen years ago with a cash capital of just \$6. He had built up a nice business.

Pansy Plants.

MME. PERRET, the finest strain on the market. Large plants that will bloom soon, at 50¢ per 100; \$3.50 per 1000; 3,000 for \$10,000.

J. C. SCHMIDT, Bristol, Pa.

CLUGAS & BODDINGTON CO.

Importers and Exporters of

Seeds, Bulbs & Plants

812-814 Greenwich Street,

.....NEW YORK CITY.

Send for quotations on all Florists' Bulb Stock.

Mushroom Spawn Fresh Importation

FERTILE. PRODUCTIVE.

English in bricks, per 100 lbs., \$6.50 f. o. b. New York. \$7.00 f. o. b. Chicago. Write for prices on quantity.

Vaughan's Seed Store,
CHICAGO. NEW YORK.

CARNATIONS

Well Rooted Cuttings Now Ready.

PINK.		RED.			
	Per 100	Per 1000	Per 100	Per 1000	
Lawson.....	\$2.00	\$15.00	Estelle.....	\$4.00	\$30.00
Enchantress.....	12.00	100.00	Adonis.....	14.00	120.00
Guardian Angel.....	1.25	10.00	Harlowarden.....	12.00	100.00
Dorothy.....	1.25	10.00	Crane.....	2.00	15.00
Joost.....	1.25	10.00	America.....	1.25	10.00
Genevieve Lord.....	1.25	10.00	Palmer.....	4.00	30.00
Nelson.....	4.00	30.00	Mrs. L. Ine.....	1.25	10.00
Cressbrook.....	4.00	30.00	Chicago (Red Bradt).....	2.00	15.00
Triumph.....	1.25	10.00			
Marquis.....	1.25	10.00	WHITE.		
Higinbotham.....	5.00	40.00	Flora Hill.....	\$1.25	\$10.00
Morning Glory.....	2.00	15.00	Queen Louise.....	2.00	15.00
			Peru.....	1.25	10.00
VARIEGATED.		Per 100		Per 1000	
Bradt.....	\$2.00	\$15.00	White Cloud.....	1.25	10.00
Prosperity.....	2.00	15.00	Murphy's White.....	6.00	50.00
Gaiety.....	2.00	15.00	Norway.....	1.25	10.00
Armazindy.....	1.25	10.00	Bon Homme Richard.....	1.25	10.00
			Hoosier Maid.....	1.25	10.00

ROSES.

Well rooted cuttings, strong and healthy.

BRIDE.....	\$1.50 per hundred;	\$12.50 per thousand
BRIDESMAID.....	1.50 per hundred;	12.50 per thousand
PERLE.....	1.50 per hundred;	12.50 per thousand
GOLDEN GATE.....	1.50 per hundred;	12.50 per thousand
IVORY.....	3.00 per hundred;	25.00 per thousand

All stock sold under express condition that if not satisfactory it is to be returned immediately when money will be refunded.

Peter Reinberg,
51 Wabash Ave.,**CHICAGO.**

Carnation Cuttings.

WELL ROOTED, CLEAN, HEALTHY STOCK.

	Per 100	Per 1000		Per 100	Per 1000
Flora Hill.....	\$1.50	\$12.50	Mrs. Lawson.....	\$1.50	\$12.50
White Cloud.....	1.50	12.50	America.....	1.50	12.50
Norway.....	1.50	12.50	Marquis.....	1.50	12.50

Guardian Angel (The Sport), per 100, \$1.50; per 1000, \$12.50.

2 1/2-INCH ROSE STOCK.

Strong, healthy plants, for early benching.

	Per 100	Per 1000		Per 100	Per 1000
La France.....	\$4.00	\$35.00	Bride.....	\$3.00	\$25.00
Kaiserin.....	3.50	30.00	Bridesmaid.....	3.00	25.00
Ivory.....	4.00	35.00	Meteor.....	2.50	20.00

All cuttings and plants sold with the express condition that if not satisfactory when received they are to be returned immediately, when money will be refunded.

WIETOR BROS., 51 Wabash Ave., Chicago.

Please mention the American Florist when writing.

ENCHANTRESS

Last Call for February Delivery. Only 2000 left, \$12.00 per 100; \$100 per 1000.

Mrs. E. A. Nelson, the best pink in its class, \$6.00 per 100; \$50.00 per 1000.

S. S. SKIDELSKY, 708 N. 16th St., Phila., Pa.

White CARNATION MARIAN

Just as good to ship as it is to keep at home. Rooted cuttings, \$5.50 per 100; \$45.00 per 1000. Delivery after Jan. 15.

Pips of DORA, any time, \$2.00 per 100. Cash with Order.

ISAAC A. PASSMORE, West Chesler, Pa.

Ferns Special Price

TO FEB. 1st.

Must have the room.

Twelve best varieties for jardiniere, 2 1/4-in. pots, very strong, stocky plants, \$2.00 per 100.

DRACENA INOIVISA, 2 1/2-in., 1 ft. high, \$2.00 per 100. CASH OR C. O. D.

WM. A. CLARK & SON 44 Boyd Street, Watertown, N. Y.

BEGONIA GLOIRE DE LORRAINE, Begonia Light Pink Lorraine,

For July and Later Delivery, \$15.00 per 100; \$140.00 per 1000.

Edwin Lonsdale, Wyndmoor, near Chestnut Hill, Pa.

Cincinnati.

TRADE GOOD AND STOCK SHORT OF THE DEMAND.—CLUB MEETS.—A BUSINESS CHANGE IN PROSPECT.

Business is good and stock very scarce, especially roses. Carnations are more plentiful and sell well. The supply of Harrisii lilies is not equal to the demand and \$2.50 per dozen is easily realized for those received. Narcissi and Romans move fairly well at \$3 per hundred. There is a good demand for violets and those received are eagerly sought for. The very cold weather of the past few days has had a tendency to shorten the supply and the buyers had to do some lively skinning to get enough flowers to fill their orders.

At a meeting of the Florists' Society Saturday night a committee was appointed to wait on the express companies in regard to the rates charged for flowers. There is daily complaint at the exorbitant rates charged. The schedule of premiums for the February exhibition of roses was approved and ordered sent to the different growers.

Albert McCullough, of J. M. McCullough's Sons, has purchased the controlling interest in the Cincinnati Cut Flower Company. Mr. McCullough intends to combine the two establishments and will have one of the largest and best equipped wholesale commission houses in the west.

Hardesty & Company came very near losing their store by fire Friday night but fortunately a policeman discovered the fire in time to prevent a serious loss. D.

Columbus, O.

TRADE STEADY AND CUT FLOWER SUPPLIES SHORT.—NOTES HERE AND THERE.

We have all settled down to steady business again. The very severe drop in temperature is being felt in the cut flower supply, which is very short at present. The Fifth Avenue Floral Company is still cutting a fine lot of roses and carnations and will soon be marketing their first lilacs. J. R. Hellenthal's stock is looking fine and there is good evidence on his place that he will show some fine hybrids and Ramblers again for Easter. Gus. Drobish is kept unusually busy with design work. He reports stock for this kind of work very scarce.

A few of our local florists will probably attend the carnation society's meeting in February. CARL.

Carnation Cuttings

We are now booking orders for rooted cuttings. List of varieties and prices sent on application.

The Cottage Gardens, Queens, L. I.

ALWAYS A WINNER.

Gov. Wolcott Carnation

	Per 100	Per 1000
3000 stock plants in perfect condition	\$5.00	\$45.00
BOSTON MARKET , white	5.00	40.00
LAWSON	4.00	30.00

Henry A. Stevens Co., East St., Dedham, Mass.

All The Best CARNATIONS

The Leading Novelties of 1903.
The Best Varieties of 1902.
All the Standard Varieties.
Ord your Rooted Cuttings NOW.
GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

CHICAGO CARNATION CO.,

JOLIET, ILL.

PRICE LIST OF NEW VARIETIES.

ROOTED CUTTINGS.

	PER 100	PER 1000
HARLOWARDEN, Crimson	\$12.00	\$100.00
MARSHALL FIELD, Variegated	12.00	100.00
HER MAJESTY, White	10.00	80 00
ADONIS, Scarlet, (Hill)	14.00	120.00
PRES. McKINLEY, Cerise, (Grave)	12.00	100.00
MURPHY'S WHITE, (Murphy)	6.00	50.00
LILLIAN POND, White (Reuter)	10.00	75.00
PENELOPE, White. (Dorner)	5 00	40.00
SIBYL, Cerise, (Dorner)	12.00	100.00

Standard Varieties.

	Per 100	Per 1000
MRS. HIGINBOTHAM , the best and most profitable pink	\$5.00	\$45.00
MRS. E. A. NELSON , beautiful, large clear pink, strong stem, gaining more admirers every day	6.00	50.00
CRESSBROOK , pink, a shade darker than Nelson	5.00	40.00
GOV. WOLCOTT , white, strong stem, fine form, good keeper.....	5.00	40.00
QUEEN LOUISE , white, very free	3.00	25.00
LORNA , white, largest and one of the best	3.00	25.00
NORWAY , white, large, best stem and best keeper	2.00	15.00
MRS. POTTER PALMER , scarlet, the best we ever grew.....	5.00	45.00
ESTELLE , scarlet, ideal color, free and grown more than any other...	4.00	30.00
PROSPERITY , the largest and most fancy variety of all	2.50	20.00
CAIETY , variegated	5.00	40.00

To give satisfaction is our aim Write for the best Illustrated Carnation Catalogue ever published.

LILLIAN POND A Large and Fancy White.

Unlike most fancies it is free and continuous. Starts in to bloom early, sending out large flowers on long stems. It is a strictly fancy flower at all times and commands top notch prices. Order at once and you will not regret it. PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00. Orders booked now for February delivery. **S. J. REUTER, WESTERLY, R. I.**

The Best White Carnation to Date **The Queen**

Reaches highest standard in size, form, calyx, stem, productiveness and keeping quality. A sure winner where ever shown. Price per 100, \$10.00; 250, \$22.50; 500, \$37.50; 1000, \$75.00.

Little South Floral Co., So. Natick, Mass. S. J. Goddard, Framingham, Mass.

CARNATIONS Miss Louise

Rooted Cuttings

	Per 100	Per 1000
CRESSBROOK	\$5.00	\$40.00
CHALLENGER	5.00	40.00
FAIR MAID	6.00	50.00

500 at 1000 rates.

Other varieties, prices on application.

C. Warburton, FALL RIVER, MASS.

Faber The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink shade, similar to a well colored Bridesmaid rose and average 3 to 3½ INCHES. Continuous bloomer when once started and calyx never bursts. Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for FEBRUARY delivery from now on.

FICK & FABER, SAN MATEO, CAL.
Please mention the American Florist when writing.

Carnation Cuttings

Now Ready

We can ship at once well-rooted cuttings of the following varieties, free from disease and first-class, in every respect. None Better and seldom equaled. . . .

Write for Quotations and Catalogue.

Mrs. Thos. W. Lawson
Gov. Wolcott
E. A. Nelson
Estelle
White Cloud
Mrs. Potter Palmer
Gaiety
Viola Allen

Adonis
Lillian Pond
President McKinley
Golden Beauty
Apollo
Morning Glory
Queen Louise
Stella

Lorna
J. H. Manley
Joost
Enquirer
Mrs. Theo. Roosevelt
Gov. Roosevelt
Harry Fenn
Dorothy Whitney

Prosperity
Guardian Angel
Mrs. Higinbotham
Dorothy
Marquis
Cressbrook
Crane
Tiger

J. D. Thompson Carnation Co.

JOLIET, ILLINOIS.

CARNATIONS ROOTED CUTTINGS.

	Per 100	Per 1000
FLORA HILL	\$1.50	\$12.00
SUNBEAM	1.50	12.00
WM. SCOTT	1.50	12.00
GEN. GOMEZ	1.50	12.00
NORWAY	2.50	20.00
HON. HOMME RICHARD	2.50	20.00
MORNING GLORY	2.50	20.00
MRS. LAWSON	3.00	25.00
GOV. ROOSEVELT	3.00	25.00
CRESSBROOK	4.00	35.00
MRS. POTTER PALMER	6.00	50.00
MRS. HIGINBOTHAM	6.00	50.00

From soil add 25 per cent to quoted price.

Boston Ferns. 2 1/2-inch \$ 6.00 per 100
3-inch 10.00 per 100
4-inch 15.00 per 100

Aspidistra Lurida, 6, 7, 8-in. pots, \$3 per 100 leaves.

WM. CLARK, Wholesale Florist, COLORADO SPRINGS, COL.

Rooted Carnation Cuttings

President McKinley

IS OUR NEW ONE.

Rooted Cuttings—\$2.00 per Dozen.
\$12.00 per 100. \$100.00 per 1000.

All the Standard and Newer Varieties.

If it's quality you're looking for we are confident we can please you.

Prices on Application.

E. T. GRAVE, Richmond, Ind.

ROOTED CUTTINGS.

All the Standard Varieties of

ROSES AND CARNATIONS

Boston Ferns in all Sizes.

GEO. M. KELLOGG, PLEASANT HILL, MISSOURI.

CARNATIONS

Rooted Cuttings of the 1902 varieties can be bought at less than market price during January, for want of room. All healthy plants.

PLEASE SEND FOR PRICE LIST.....

Michael Winandy, 406 Devon Ave., CHICAGO.

Always mention the.....

American Florist

when you write to an advertiser.

CARNATIONS.

350,000 Well Rooted Cuttings NOW READY.

	Doz.	100	1000		Doz.	100	1000
Gov. Wolcott, white	\$.60	\$4.00	\$35.00	Norway, white	\$.30	\$1.00	\$10.00
Alba, white	.60	4.00	35.00	Lorna, white	.30	1.00	10.00
Golden Beauty, yellow	.60	4.00	35.00	Gold Nugget, yellow	.30	2.00	15.00
Viola, variegated, very nice	1.25	9.00	75.00	Lawson, pink	.30	2.00	15.00
Mrs. Palmer, scarlet	.60	4.00	35.00	Bon Il, Richard, white	.30	2.00	15.00
Mrs. Higinbotham, light pink	.60	4.00	35.00	Egypt, maroon	.30	1.00	10.00
J. H. Manley, scarlet	.60	4.00	35.00	Queen Louise, white	.30	2.00	15.00
Viola Allen, variegated	.60	4.00	35.00	Crane, scarlet	.15	1.00	10.00
Gaiety, fine variegated	.60	4.00	35.00	Genevieve Lord, light pink	.15	1.00	8.00
Harry Fenn, crimson	.60	4.00	35.00	Evauston, red	.15	1.00	8.00
Apollo, scarlet	.60	4.00	35.00	Tidal Wave, pink	.15	1.00	8.00
Dorothy Whitney, yellow	.65	4.50	40.00	Joost, pink	.15	1.00	10.00
Stella, Dorner's variegated	.60	4.00	35.00	Mermaid, salmon, fine	.15	1.00	7.00
Corbett, salmon	.40	3.00	25.00	Portia, scarlet	.15	1.00	10.00
Dorothy, pink	.40	1.50	10.00	Wm Scott pink	.15	1.00	7.00
Chicot, white	.50	3.00	25.00	Argyle, pink	.15	1.00	10.00
Gov. Roosevelt, maroon	.35	2.00	15.00	Eldorado, yellow	.15	1.00	7.00
Prosperity, white splashed pink	.35	2.50	20.00	Gen. Maceo, maroon	.15	1.00	10.00

Write for prices on large quantities. 6 at 12 Rates; 25 at 100 Rates; 250 at 1,000 Rates.

Terms Spot Cash, prepaid to your city at above prices.

All rooted cuttings sold under express condition that if not satisfactory on arrival, return immediately, when money will be refunded.

CALIFORNIA CARNATION CO., Loomis, California.

MURPHY'S WHITE Carnation

Is proving itself a paying commercial white. Was in full crop for the holidays, has been in continuous crop since August. We do not claim a fancy, but the best paying white on our market to-day, as a keeper, as a producer, seller and shipper. It is all we claim for it. We are booking orders now for February 1 to 15 delivery. First-class cuttings and satisfaction guaranteed or money refunded. Place your orders with S. S. Skidelsky, traveling salesman, or J. Gammage & Sons, Canadian agent, or send direct.

\$5.00 per 100; \$5.00 per 1000; \$45.00 per 1000 in 5,000 lots; \$40.00 per 1000 in 10,000 lots.

WM. MURPHY, Wholesale Carnation Grower. 130 E. Third Street. CINCINNATI.

MRS. FISHER CARNATIONS FOR SUMMER BLOOMING.

Some Fine Plants in 2-inch Pots.

BOSTON FERNS, 2 1/2, 3, 4, 5, 6, 7, 8 and 10-inch. **Plumozus and Sprangeri.** **Geraniums,** all colors in 2 1/2-inch pots. Write

GEO. A. KUHL, Pekin, Ill.

CARNATIONS

ROOTED CUTTINGS.

NOW READY Ethel Crocker, Cressbrook, Gaiety, Enquirer, Morning Glory.....

February and March Delivery Queen Louise, Her Majesty, Adonis, Prosperity, Roosevelt, Mrs. Higinbotham and Mrs. E. A. Nelson.

Send a list of what you want stating number of each variety and when they are to be delivered.

ALBERT M. HERR, LANCASTER, PA.

Carnations ROOTED CUTTINGS.

Cannas ALL THE LEADING VARIETIES.

Write for prices, which are right.

W. W. COLES, Kokomo, Ind.

Providence, R. I.

CLUB HOLDS ITS ANNUAL BANQUET.—IS IN A PERIOD OF UNINTERRUPTED SUCCESS.—THE STATE OF TRADE.

The Florists' Club held its annual banquet on January 8, with a full attendance. President Appleton and Toastmaster Sweeney were in excellent spirits and officiated to the pleasure of the company. Messrs. Bryant, Southwick, Smith and Turner were invited guests and each spoke upon interesting and timely topics. All those present were given an opportunity to speak, and thus the affair was brought to a pleasant finish. If the out-of-town florists only knew the pleasure and instruction they were missing, they would surely hasten to join and attend the club meetings regularly. The meetings now are a great deal better than ever before, and no ambitious florist should neglect them.

Things are averaging a fair January's business, although there are some very dull days. Carnations are \$2 to \$3 per hundred, and bring 60 cents to 75 cents per dozen retail. Roses are off crop with some, and in crop with others, which makes a fluctuating market at from \$3 to \$12 per hundred. Violets are now plentiful at \$1 per hundred and are likely to drop by another week. M. M.

BEATRICE, NEB.—S. H. Dole & Sons report a fair season. Chrysanthemums were slower sale than for years, but Christmas trade made a new record.

BURLINGTON, VT.—C. J. Pringle, the botanist at the University of Vermont, has departed for Cuba where he expects to spend two months in exploration.

COUNCIL BLUFFS, IA.—J. F. Wilcox says that the coal question is a serious one. He is running from hand to mouth and a few days interruption in the supply would mean catastrophe.

JOLIET, ILL.—Ludwig Schmidt suffered an irretrievable loss January 8, when his greenhouse was destroyed by fire caused by defective heating apparatus. He had only recently started in business.

PRELIMINARY LIST OF

New Chrysanthemums

and other NOVELTIES NOW READY.

Will be pleased to mail to those interested.

Nathan Smith & Son
ADRIAN, MICH.

Carnation Gov. Lowndes.

Color, pure white. Size, 3 to 3½ inches in diameter. Calyx, spreading at the top, making it practically non-bursting. Form, the lower or guard petals stand out straight, retaining the full size of bloom. Petals slightly serrated, and beautifully arranged, forming a full, rounded center. Odor, is very sweet and particularly pleasing. Stem, 19 inches to 2½ feet during the season, and always strong enough to carry the large flower erect. Habit, strong and vigorous; thrives well and grows rapidly. Transplants readily and comes into bloom early, and is not a cropper. It will stand closer planting than most varieties. Productiveness, extremely free flowering. More productive than any other large white. A profitable and high grade commercial variety. Price, \$2.50 per doz.; \$12 per 100; \$100 per 1000. 50 at 100 rate; 500 at 1000 rate.

H. WEBER & SONS, OAKLAND, MD.



"Thoroughbreds"

American Beauty
ROOTED CUTTINGS

\$30 PER THOUSAND is our price on immediate orders. Delivery February and March. Rooted cuttings other Roses, too.

HELLER BROS.

(South Park Floral Co.) New Castle, Ind.

YELLOW EATON

GOOD JUDGES pronounce it the most valuable commercial Chrysanthemum to be introduced in the spring of 1903. Its color captivates everybody and it has all the other good qualities of Timothy Eaton, without the coarseness sometimes attributed to that variety. \$5.00 per doz; \$30 per 100. Delivery of young stock, March 1, 1903.

ROBERT CRAIG & SON, Market and 49th Streets, PHILADELPHIA, PA.

Rooted Cuttings ROSES AND CARNATIONS.

Our Cuttings are all selected for strength and health. There is no finer stock grown. The roses are all from grafted stock, except the Perles and Meteors.

ROSES.

KAISERINS.....	per 100 \$2.50	BRIDESMAIDS.....	per 100 \$1.50
PERLES.....	" 2.50	METEORS.....	" 1.50
BRIDES.....	" 1.50	GOLDEN GATES.....	" 1.50

CARNATIONS. Pink.

White.		LAWSON.....	per 100 \$ 2.00
WHITE CLOUD.....	per 100 \$ 1.50	MARQUIS.....	" 1.50
FLORA HILL.....	" 1.50	MORNING GLORY.....	" 2.00
GOV. WOLCOTT.....	" 5.00	CRESSBROOK.....	" 4.00
NORWAY.....	" 2.00	FLORIANA.....	" 4.00
LILLIAN POND.....	" 10.00	ENCHANTRESS.....	" 12.00
WHITE BRADT.....	" 12.00	Striped.	
Red.		GAIETY.....	" 4.00
CRANE.....	" 2.00	PROSPERITY.....	" 3.00
AMERICA.....	" 1.50	Maroon.	
ADONIS.....	" 14.00	MACEO.....	" 1.50
		ROOSEVELT.....	" 2.00

No order for less than 50 of one variety filled at these prices. We will have a very fine stock of grafted Brides and Bridesmaids, ready April 1st, at \$10.00 per 100. All cuttings and plants shipped from Hinsdale.

BASSETT & WASHBURN, Store: 76 Wabash Ave, Chicago Greenhouses: HINSDALE, ILL.

Dreer's Summer Flowering Bulbs



TUBEROUS ROOTED BEGONIAS.—Single Flowered.

White, Crimson, Scarlet, Pink, White and Yellow, 40c per doz.; \$3 per 100; \$25 per 1000. Choicest singles in mixture, 35c per doz.; \$2.50 per 100; \$22.00 per 1000.

TUBEROUS ROOTED BEGONIAS.—Double Flowering.

Scarlet, Rose, White and Yellow, 65c per doz.; \$5 per 100; \$40 per 1000. Choicest doubles in mixture, 50c per doz.; \$4 per 100; \$35 per 1000.

NEW FRILLED TUBEROUS BEGONIAS.

A grand new variety fringed like a single Petunia, choicest mixture, 25c each, \$2.50 per doz.; \$20 per 100.

BEDDING TUBEROUS BEGONIA, DUKE ZEPPELIN.

This is the intensely bright scarlet, small double flowered that attracted so much attention at the Pan-American Exhibition. Fine strong bulbs, 20c each, \$2 per doz.; \$15 per 100.

GLOXINIA CRASSIFOLIA GRANDIFLORA.

A choice selected strain, strong, well matured bulbs, Red, White and Blue in separate colors or in choicest mixture, 50c per doz.; \$4 per 100; \$35 per 1000.

FANCY LEAVED CALADIUMS.

A choice collection of 25 varieties, \$1.25 per doz.; \$10 per 100. Choice Mixed Varieties, \$1 per doz.; \$8 per 100.

TIGRIDIAS.

Conchiflora, Grandiflora Alba, Pavonia Grandiflora, 30c per doz.; \$2 per 100, \$15 per 1000.

MONTBRETIAS.

Six choice varieties, 25c per doz.; \$1.75 per 100; \$12.50 per 1000.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.



AZALEAS.

All the best sorts, such as Bernard Andrea Alba, Deutsche Perle, Vervaeana, Simon Mardner, Mme. Van der Cruyssen, Virginiana, Empress of India, and many others.

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10 to 12-inch crowns, bushy plants.....	\$40.00 per 100
12 to 14-inch crowns, bushy plants.....	50.00 per 100
14 to 16-inch crowns, bushy plants.....	60.00 per 100
16 to 18-inch crowns, bushy plants.....	\$12.00 per doz.
18 to 20-inch crowns, bushy plants.....	25.00 per doz.
20 to 22-inch crowns, bushy plants.....	30.00 per doz.
22 to 24-inch crowns, bushy plants.....	36.00 per doz.

We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

BOSTON FERNS.

Extra choice lot of compact, bushy, pot-grown plants.

2 1/2-inch pots.....	\$5.00 per 100	5-inch pans.....	\$40.00 per 100
3-inch pots.....	10.00 per 100	6-inch pans.....	9.00 per doz.
4-inch pots.....	25.00 per 100	7-inch pans.....	12.00 per doz.

VAUGHAN'S SEED STORE, 14 Barclay Street. NEW YORK.
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	Per 100
Large-flowering.....	\$2.50 per 1000, \$.50
CHINESE PRIMROSES.....	1.50
ASP. SPRENGERI, 2 1/2-inch pots.....	2.00
GERANIUMS, 10 varieties, 2-inch pots.....	2.50
VINCA VINES, variegated, 3-inch pots.....	4.00
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100 CINERARIAS, 3-inch pots.....	6.00

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Robinson, Merry Xmas, Wana-maker, Monrovia, Bassett, Lincoln, Whilldin, Murdock, Kalb, Bonnaffon, Childs, Halliday, Appleton, Sunderbruch, Perrin, Pacific. \$4.00 per 100.

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In cool Greenhouse.
 \$2.50 per Thousand. Cash.
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GERANIUMS Rooted Cuttings

	Big	100	1000
HETERANTHE	lot	\$1.25	\$10.00
BUCHNER	lot	1.25	10.00
VIAUD	now	2.00	15.00
CASTELLANE	ready	2.00	15.00
PERKINS		2.00	15.00
POITEVINE		2.00	15.00
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S. A. NUTT		1.25	10.00

ACTEON, LA FAVORITE, LA PILOT, BONNOT AND CASTRIS, \$1.50 per 100.

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CHRYSANTHEMUMS Large Strong Stock Plants from Bench.

Bentley, 35c each; \$3.00 per doz. C. Holst, 25c each; \$2.00 per doz. Honesty, 25c each; \$2.00 per doz. Prosperity, 25c each; \$2.00 per doz. Providence, 25c each; \$2.00 per doz.
 T. Eaton, Appleton, Maud Dean, Childs, Mrs. Chamberlain, Liberty, Chadwick, Orizaba, Lady Roberts, Golden Wedding, Golden Beauty, Bruant, \$1.50 per doz.; \$8.00 per 100.
 Mrs. E. D. Smith, White Bonnaffon, R. H. Pearson, Bergmann, Willowbrook, Ivory, October Sunshine, Merry Monarch, The Queen, Mrs. J. Jones, Bonnaffon, Lucie Faure, Niveus, Eclipse, \$1.00 per doz.; \$6.00 per 100. 6 plants of one variety at doz. rate; 25 at 100 rate.

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Unqualified success. Quick seller. Very prolific, at 2 1/2-in. \$10; 3-in. \$21; 4-in. \$35; 5-in. \$50 per 100. Larger plants, prices on application.
KENTIA PALMS, \$50, \$75 and \$100 per 100.
RUBBERS, 5-in. pots, 18 inches high, \$4 per doz.
L. H. FOSTER, 45 King Street, Rochester, Mass.

Buffalo.

BAD WEATHER CUTS INTO TRADE AND COLD MAKES EXPENSE FOR GROWERS.—VARIOUS NOTES.

With unsettled weather trade has not been rushing. A few receipts, but not very large, were about all that was doing last week. No reports have been received of anyone freezing up but all deplore the scarcity of hard coal and the outrageous price of soft coal. Stock has been fair in supply. Guenther, of Hamburg, is sending in some very fine carnations and so is C. S. Christenson. L. H. Neubek's sweet peas are still as much talked of as Palmer & Son's Bon Silene, the old-time rose which this firm has again started to grow. S. A. Anderson is handling large quantities of valley, which in bunches of twenty-five sells very rapidly. About 3,000 were sold on Christmas and the day before.

Byrne & Slattery opened their new Main street store last Saturday. The store is fitted up very neatly. They are doing a nice trade. Mr. Byrne is a Buffalonian but has been with Thorley, while Mr. Slattery is an old employe of Thorley also.

Thomas Coleman has severed his connection with the H. A. Meldrum Company and is now devoting all his time to his store. Bison.

New Haven, Conn.

SOCIETY HOLDS MEETING.—NEW OFFICERS ELECTED.—YEAR A SUCCESSFUL ONE.

The New Haven County Horticultural Society held its annual meeting January 6. Reports of officers show that the association is prospering. The membership of the society has increased and the recent exhibition in Music hall was a success in every way.

Officers were elected as follows: President, Gustave Amrhn; vice president, William Gardner; treasurer, David Kidd; secretary, Thomas Pettit; board of managers, Robert Paton, William Ferrier, Rubert Angus, J. W. Woodward, John N. Champion.

The annual banquet of the society will probably be held in February and a committee was appointed last meeting to make arrangements. The next meeting will be held January 20, at which time A. J. Thompson, of West Haven, will read a paper on carnations.

RACINE, WIS.—Mrs. C. W. Pike is at Marlow, Fla.

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Fine 2-in. Pot Plants, \$1.25 per doz; \$8 per 100

ASPARAGUS SPRENGERI

From 5-in. Pots, Strong, \$1.50 per doz. \$10 per 100.

BEGONIA REX

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BOSTON FERNS 5-in. pots, \$3.00 per doz.
6-in. pots, 5.00 per doz.
6-in. strong 6.00 per doz.
7-in. pots, 7.20 per doz.

ASPARAGUS PLUMOSUS NANUS, 4-in. pots, fine plants, \$1.50 per doz.
4-in. pots, extra select, \$2.00 per doz.

FERN BALLS furnished with leaves, \$5.00 per doz.

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AZALEAS We have 10,000 from which to select your stock. Place orders at once.

RHODODENDRONS for forcing. Finest stock ever imported. Write for prices.

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500,000 VERBENAS THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 60c per 100; \$5 per 1000; \$45 per 10,000. NO RUST OR MILDEW.

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Go Everywhere and always give Satisfaction

Geraniums The six "KINGS" for bedding: Alp. Riceard, scarlet; S. A. Nutt, crimson; E. G. Hill and Beaute Poitevine, salmon; Mme. Buchner, white; Jean Viand, pink; strong top cuttings, well rooted—\$2.00 per 100, \$16.00 per 1000.

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Verbenas Our 20th Century Collection of 20 new mammoth varieties, labeled, strong plants from 2-in. pots—\$1.50 per 100, \$14.00 per 1000.

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Ageratum Two best: Princess Pauline, Stella Gurney, \$1.25 per 100.

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Rooted Rose Cuttings.

Beauties, \$3.00 per 100; Brides, Maids, Meteors, Golden Gates, \$1.50 per 100; Perles, \$2.00; Ivory, \$2.50. Write for price on large quantities.

FINE BOSTON FERNS. 2 1/2-in. \$4; 4-in. \$15; 5-in. \$25; 6-in. \$40; 7-in. \$60. Pleasant for immediate sales or for growing on. **STOCK MUMS.** White, Fitzwygram, Queen, Robinson, Ivory, Jones, Chadwick, yellow Bonalfon, Wedding, Appleton. All at \$5 per 100. Well supplied with cuttings.
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REX BECONIA, 2 and 3-inch, \$4 and \$6 per 100

BOSTON FERN, \$4, \$8, \$15 and \$30 per 100 for 2, 3, 4 and 5-inch.

ASPARAGUS Plumosus, 2-inch, \$5; 3-inch, \$8. Sprenger, 2 inch, \$3; 3 inch, \$5, per 100.

DRACAENA INDIVISA, 4, 5-in., \$10, \$25 per 100

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VINCA VAR., 2-in., \$2.00; 3-in., \$4.00 per 100.

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GERANIUMS, single Gen. Grant, double Gen. Grant, S. A. Nutt, La Favorite, Bonnet, Poitevine, Riccard, Francis Perkins, 2-inch, \$2.50 per 100.

COLEUS, Rooted Cuttings, 75 cents per 100.

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CLADIOLUS bulbs, good mixture, 50c per 100.

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2 1/2-inch S. A. NUTT, Best Double Red, and La Favorite, Best Double White, \$2.00 per 100; \$18.00 per 1000; express not prepaid.

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50,000 PLUMOSUS NANUS, extra strong, 2 1/2-inch, \$3.50 per 100.

SPRENGER, strong, 2 1/2-inch, \$2.50 per 100.

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From bench fit for 3, 4, 5, 6, 7 and 8-in., 2 1/2c, 5c, 15c, 20c, 30c, 40c.

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Extra fine, 4 to 7-inch pots, only 12c per leaf.

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SEEDLINGS—From flats, ready to pot, \$1.00 per 100; \$7.5 per 1000.

FIELD-GROWN—Extra strong. These plants are making new top and root growths. If potted now, will be fine for Easter. Plants large enough for 4 and 5-inch pots or pans, \$3.00 and \$5.00 per 100, respectively.

ADIANTUM CAPILLUS VENERIS—The best for fern dishes, bushy 2 1/2-in. pot plants, \$3 per 100.

CHINESE PRIMROSES—select strain, **Reading Scarlet**, best of its color; **Light Rose Pink**, no trace of magenta. Large plants from 3-in. pots, in bud and bloom, \$4.00 per 100.

CINERARIA STELLATA—Good for pot display or cutting. Extra strong, from 3-inch pots, \$4.00 per 100.

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COLEUS, 48 var., 70c per 100; \$6.00 per 1000

GERANIUMS from 2 1/2-in. pots, \$2.50 per 100; \$22 per 1000. Good bedding sorts.

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EASTERN CHEMICAL COMPANY,
620 Atlantic Ave., Boston.

Denver.

STATE OF TRADE IN THE COLORADO METROPOLIS.—ALL ABOUT SUPPLY AND DEMAND.

Trade has slackened up quite noticeably this week, about the only stir in business being an occasional good call for funeral work. Society has let down for the time being and very little is doing with that set. Stock is rather plentiful and with good bright weather every day quality is generally very fine. There are some excellent Beauties now, the long-stemmed being best. These meet with good sale, while the shorter stock hangs fire. A rose that is proving very popular this season and is now at its best is Chatenay. When well open there is nothing prettier and with us it is a grand keeper, not that we keep them long, but it gives good satisfaction to those who buy them. Carnations are coming in very fast but still command a good price, white ones being in best demand on account of funeral work. Violets are in over-supply. Bulbous stock moves slowly outside of what is used in work. The first tulips are in but as yet are too short-stemmed to do any good. B.

Nashville, Tenn.

HOLIDAY TRADE ECLIPSES ALL RECORDS.—STOCK FOR ALL DEMANDS.—VARIOUS NOTES.

The holiday trade in this city surpassed even the most sanguine expectations. Stock was abundant. Plants were especially in evidence. Gery Brothers had an especially fine stock of azaleas, fine bushy plants, well flowered, and of the choicest colors. Roses were not so abundant, though the trade seemed to get what it wanted. Beauty was particularly scarce. The roses, however, were fine in quality and brought good prices. Joy & Son had a fine stock. Violets were not so plentiful. The prices realized this year were quite an advance over previous years.

M. C. DORRIS.

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Greenhouse Bugs
USE
"NICOTICIDE"**

Clean and harmless
as Fumigant or Spray.
Ask your seedsman
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**Wired
Toothpicks**

10,000, \$1.50; 50,000, \$6.25. Manufactured by
W. J. COWEE, BERLIN, N. Y.
Sample Free. For sale by dealers.

**No More Frozen Plants.
THE CLARK WAGON HEATER**

**REMOVES ALL
DANGER OF
FREEZING.**



**THE FLORIST'S
FRIEND
IN WINTER.**

Costs but \$2.25 and up. Burns the Clark Coal without flame, smoke or odor. Cost of operation one cent for eight hours. No danger of fire in wagon. Send for catalogue.....

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NOTICE.

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**The Model Extension
Carnation Support.**



Flushing, Long Island,
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MR. THERON N. PARKER,
Brooklyn, N. Y.

Dear Sir— I have used your Wire Carnation Support the last two years, in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time.

Very truly,
A. L. THORNE.
La Fayette, Ind.,
July 8th, 1902
MR. THERON N. PARKER,
Harrison, N. J.

Dear Sir:— After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season. We were much pleased with the simplicity, strength and neat appearance of the support

Yours truly
F. DORNER & SONS CO.

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CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
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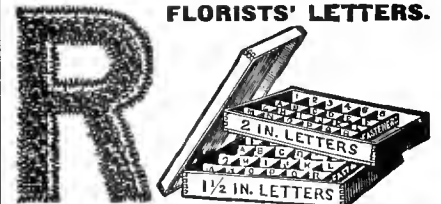
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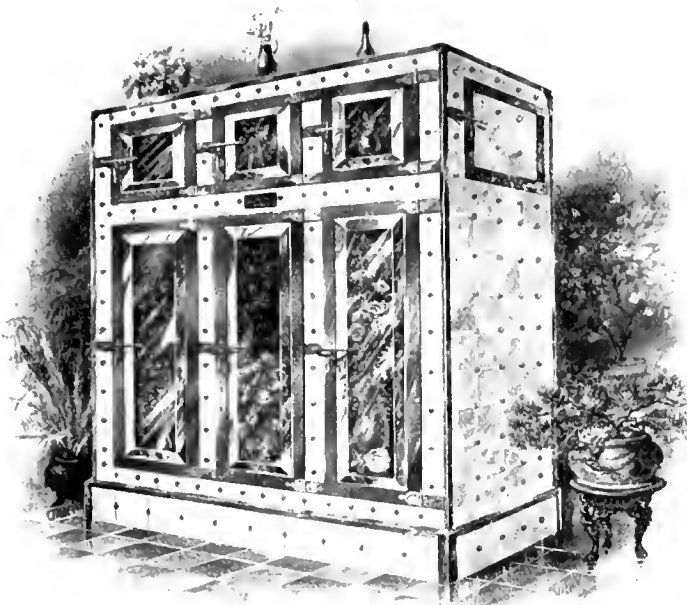
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They combine beauty with utility and are guaranteed to be entirely worthy and satisfactory in every particular.

Special inducements on present orders for Spring delivery.

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Two Sizes. No. 1. 11 1/4 x 12 1/2 and 11 inches high.
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Are folded up in compact package of about one cubic foot; weight about 18 pounds.

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1 house.....\$ 4.50	1 house.....\$ 6.50
2 houses..... 8.50	2 houses..... 12.50
4 houses..... 16.50	4 houses..... 24.00
6 houses..... 24.00	6 houses..... 34.50

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No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$3.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nickled, with three clasps for 5 to 6-inch pots, each \$1.75.

KIFT'S PATENT Rubber Capped FLOWER TUBES, 1 1/4-inch diameter, per 100, \$3.50.
JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.

Fumigating Kind Tobacco Powder

KILLS ALL APHIS IN ONE NIGHT in a house 14x25 ft. at a cost of 10c. A 5 lb. trial pkg. will cost nothing if you will pay the express charges on it. Our booklet tells of it. Write Dept. C for it.
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WATERPROOF. Corner Lock Style.
The best, strongest and neatest folding cut flower box ever made. Cheap, durable, handy. To try them once is to use them always.

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Size No. 1.	3x4 1/4 x 16	\$1.75 per 100; \$15.00 per 1000
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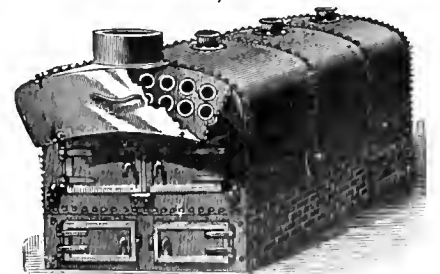
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WRITE FOR ILLUSTRATED CATALOGUE
QUAKER CITY MACHINE WORKS
RICHMOND, IND.

Springfield, Mass.

TRADE FAIR BUT PRICE OF COAL LEAVES LITTLE PROFIT FOR GROWERS.—FAILURE OF THE MURPHY COMPANY.

Business for the past two weeks has kept up well, there being a good demand for cut flowers, which are coming in plentifully and of good quality, although carnations are a little under-size, owing to lack of coal to keep up the necessary temperature. If the grower breaks even this year he will be a lucky man. There is a good demand for funeral work, helping to use up surplus stock, also a few banquets and hall decorations, keeping the storemen busy. Growers are starting to move plants along for spring sales, which stock is always in good demand here and from reports prices will go a little higher this season.

The Murphy company has filed a petition in bankruptcy with liabilities of \$2,785.93 and assets of \$1,000. The firm consists of Dennis J. Murphy and John I. Bolt, who also filed individual petitions. Some of the larger creditors are A. N. Pierson, Cromwell, Conn., \$695.59; Springfield Fire and Marine Insurance Company, \$367; George Salford, \$347, and about twenty-five smaller creditors. The firm has for assets about \$200 in stock and \$800 in machinery and tools.

L. H. Butts, formerly with W. D. Sloane, of Lenox, Mass., has taken a position with Adams & Son. A. B.

ERIE, PA.—S. Alfred Baur says carnations had a great run at Christmas and all good stock sold, including both flowering and decorative plants. All things considered, it was the best holiday season on record.

100 PER CENT.

SULPHO-TOBACCO SOAP
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A Wonderful Insecticide.

Revives Plant Life. Non-injurious.
Prices low. Sales net 100% profit.

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ALL KINDS.

STANDARD POTS SPECIALTY

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Standard Pots
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MANUFACTURERS OF
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HARRY BALSLEY, Rep. DETROIT, MICH.,
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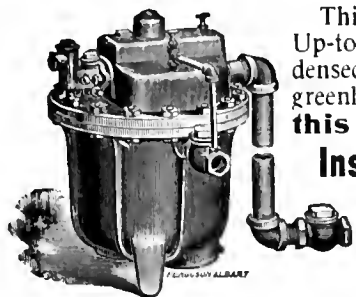
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VALVES and fittings of every kind.

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We also offer the following bargains in

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50 CAST-IRON sectional heaters, capacity from 450 to 5,000 feet.

1 NO. 2 Standard Kroeschell hot water heating boiler.

FOUR 36x10 Horizontal Tubular.

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FIVE 42x12 Horizontal Tubular.

SIX 48x14 Horizontal Tubular.

TWO 54x16 Horizontal Tubular.

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A carload of shovels and spades that we are selling at \$5.00 per dozen.

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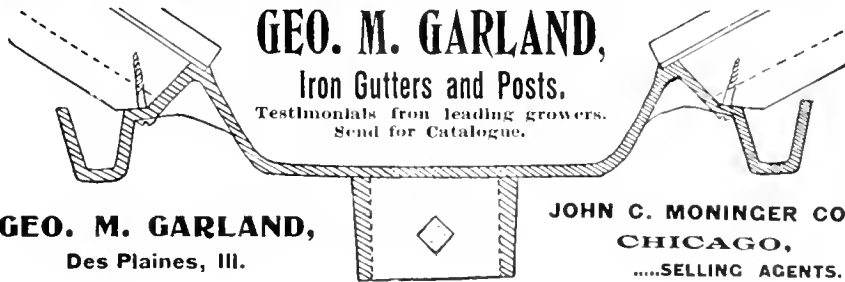
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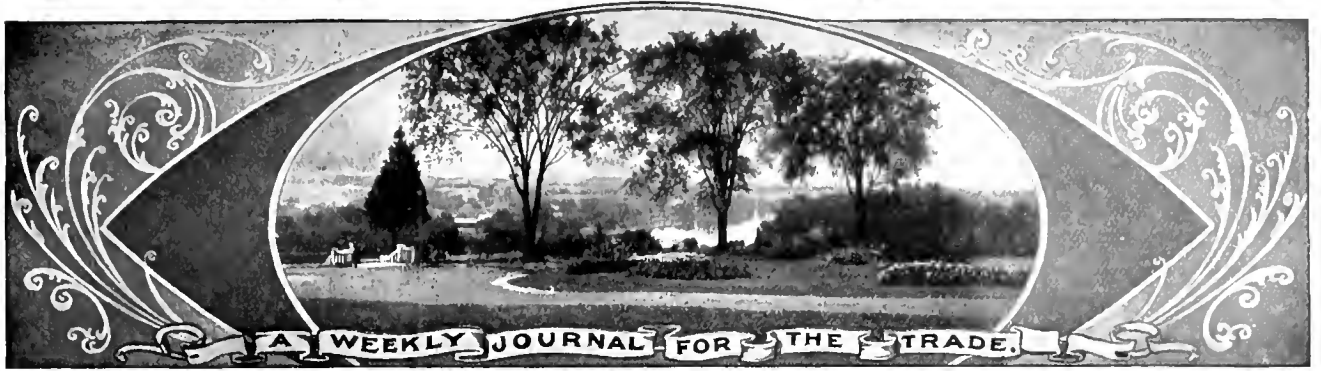
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THE AMERICAN FLORIST



America is "the Prow of the Vessel; there may be more comfort Amidships, but we are the first to touch Unknown Seas."

Vol. XIX.

CHICAGO AND NEW YORK, JANUARY 24, 1903.

No. 764.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

OFFICERS—JOHN BURTON, Philadelphia, Pa., president; J. W. C. DEAKE, Asheville, N. C., vice-president; WM. J. STEWART, 79 Milk Street, Boston, Mass., secretary; H. B. BEATTY, Oil City, Pa., treasurer.

OFFICERS-ELECT—JOHN BURTON, president; C. C. POLLWORTH, vice-president; secretary and treasurer as before. Nineteenth annual meeting at Milwaukee, Wis., August, 1903.

THE AMERICAN CARNATION SOCIETY.

Annual convention at Brooklyn, N. Y., February 19-20, 1903. ALBERT M. HERR, Lancaster, Pa., secretary.

AMERICAN ROSE SOCIETY.

Annual meeting and exhibition, Philadelphia, March 24-26, 1903. LEONARD BARRON, 136 Liberty St., New York, secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Annual convention subject to call of executive committee. EDWIN LONSDALE, Chestnut Hill, Pa., secretary.

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The S. A. F. Tackles the Express Tariff.

The meeting at the American House in Boston, called to voice the protest of the local growers and shippers against the oppressive tariff recently put in force by the Express Trust, on Saturday, January 17, was an enthusiastic affair and fully met the hopes of its promoters. Secretary W. J. Stewart, of the S. A. F., read the call under which the meeting convened and was then elected chairman, W. W. Tailby being chosen as secretary. The chairman addressed the meeting briefly, stating that the national society as represented by its officers was heartily in sympathy with the objects of the assembly and intimating that if the florists elsewhere throughout the land would likewise get together in their respective centers, the S. A. F. would stand ready to aid and, focusing their individual effort in one united endeavor, if necessary carry the common appeal up to the interstate commerce commission or even to congress for investigation, in case justice should be refused by the express companies and ventured the opinion that the present action of the carrying companies is only the first turn of the screw which, unless decisively met at the outset, would in time be given another twist which would pinch the plant, produce and other "perishable goods" industries as well.

Letters of approval and encouragement were received from numerous organizations, firms and individuals. From the Dutchess County Horticultural Society came the following letter:

We, the undersigned, a committee duly appointed by the Horticultural Society of Dutchess County for the purpose of procuring a reduction in express rates on cut flowers, express our desire of co-operating with your society in its effort to procure such reduction, and we further desire to aid in any way that we may be able to promote the end in view and the common welfare of flower growers in general. We would like to be advised of the action of your society at its meeting and to be kept in touch with its progress.

(Signed) C. F. BARRETT,
PETER T. DEAY,
STANTON ROCKWELL,
W. H. SLOAN,
HELMAN ASHER,
H. C. BARKER.

The Cincinnati Florists' Society sent a petition signed by twenty-four of the leading floral houses of that city, offering cordial assistance in the cause and stating that Messrs. Wm. Murphy, E. G. Gillett and H. B. McCullough had been appointed a special committee with this end in view. H. Barton, of Westfield, Mass., and Mrs. A. C. Mather, Rockland, Me., sent strong letters expressing deep

interest in the movement and complaining of the burden placed upon their business by the increased cost of goods shipped to them from wholesale sources, owing to the exorbitant charges made by this grasping express monopoly. A communication from John N. May, speaking particularly for the growers who ship their product to the large city markets, was received too late to be presented at the meeting. In it Mr. May said pertinently:

When the express companies claim extra special service in the handling of cut flower business they are over-doing it. Fully ninety per cent of the cut flowers shipped are not only delivered to their respective offices throughout the country, but the messengers who deliver these flowers to them have to put them on the trains themselves. Furthermore, the growers ship on nearly the same trains all along the line; thus when they reach the terminals at the large cities they, the express companies, can load their wagons and deliver large blocks of goods all at the same time, while in all ordinary merchandise the express companies have the expense of collecting as well as delivering in scattered sections. Now, if the express companies still persist in charging these unreasonable rates the florists generally are determined to combine and deliver their goods by other means rather than pay such rates. We find also a great complaint as to the way the express companies handle the empties, (these they handle or rather kick about with the full determination of smashing as many of the boxes as possible, yet they charge a good round price for doing so. This occurs not only in the vicinity of New York but complaints on this line are coming in from every section.

P. Welch, on behalf of the firm of Welch Brothers, presented a bunch of protesting letters received by his house, which were read by the secretary, from T. C. Leekey, Portsmouth, N. H.; C. D. Thayer, Worcester, Mass.; F. B. Barrington, Gloucester, Mass.; E. W. Breed, Clinton, Mass.; M. B. Kingman, Amherst, Mass.; John White, Pittsfield, Mass.; Adam Sekenger, Bangor, Me.; Mrs. A. C. Mather, Rockland, Me.; Thornton Brothers, Lawrence, Mass.; C. P. Dow, Laconia, N. H.; W. E. Sargent, Worcester, Mass.; J. J. McManmon, Lowell, Mass.; Mrs. W. C. Stevens, Malone, N. Y.; Mrs. Thos. Allen, Bangor, Me.; Wm. Kennedy, Greenfield, Mass.; John Mack, Beverly, Mass.; H. F. Littlefield, Worcester, Mass.; Royal J. Barter, Ogdensburg, N. Y.; C. H. Hayden, Dexter, Me.; G. H. Hill, Haverhill, Mass.; C. A. Leighton, Skowhegan, Me., and Alex. Em-He, Barre, Vt. The following are examples of the tenor of the various letters:

I would say that for one I protest very strongly against the high rates, discriminating against the florist and his customers. I am also convinced that the number of packages of flowers to be in the future given by the express companies will be 20% diminished and with more than offset the increase of rates. I think the matter should be put at a present time by the express companies, and to continue them, that the high rates

will be against them in the way of returns, and besides bring a set-back to the florist business in general. I hope and trust something may be done so that the business may go on as usual.

Pittsfield, Mass. JOHN WHITE.

In regard to express charges I wish to say that I have already brought the matter before the Bangor Board of Trade and they take action on it to-night. It has hurt my out of town trade terribly. On small orders of \$1.50 and \$2 the express charges were from 40 to 60 cents. There is no other reliable company doing business here, so have to depend on the American.

Bangor, Me. ADAM SEKINGER.

Regarding the excessive express rates, I would say that here we have a minimum rate of 40 cents a package. A package of flowers that it formerly cost me 15 cents to ship by express to Waterville or Augusta, now costs 40 cents. Almost three times as much. This is well high prohibitive on small orders. I will gladly enter my protest against this robbery. With coal at an excessive price, and the present tariff on everything in the shape of flowers expressed, the florist seems to be truly between the devil and the deep sea. Personally, I have no shipping recourse except to use the American, as that is the only company that enters this town. Hoping that you will receive the strongest backing in resisting the demands of the express companies named, I remain,

Skowhegan, Me. C. A. LEIGHTON.

Unless you can find some other way than the Adams Express to ship us, we shall be obliged to cut off our order. Since the advance in rates our shipping trade has practically ceased.

Worcester, Mass. H. F. LITTLEFIELD.

It seems a shame that a business growing like the flower business is at the present time should be handicapped by prohibitive express rates. Just as an illustration, yesterday a lady came into my store and wanted to know what it would cost to send a dozen carnations to Haverhill, a town seven miles out. I told her 38 cents. She

city, a copy of which I enclose to you. All that I can add to this is to say, that I do quite a cut flower trade with the surrounding towns near here, and adding this extra fifty per cent to the already high express tariff makes the small packages cost them so much they will not stand it, and in consequence I lose their trade, which would amount to quite a little sum in six months time. The injury that this increased rate will cause would be hard to estimate, as it has taken years to work up this trade, and when lost will be hard to regain.

Laconia, N. H.

In regard to the advance in express rates, I would say that I am only sorry that there is not another express company that has heated cars to take care of perishable goods between here and Boston. I should certainly patronize them if there was. As it is, the American Express Company has us at its mercy. I had a very severe discussion with their agent in Lowell shortly after they had raised the price on this matter, and he acknowledged that their earnings paid the company eight per cent last year, and still they want more. To charge me 40 cents for a small box from Exeter that used to come for 20 cents I consider extortion. So if I can have my goods reach me through any other company I would much rather than encourage monopoly and extortion.

Lowell, Mass.

As regards the express companies, all that have done business with me are two, American and our local here, Marshall & Moulton. Our local is all right. American roasts us every time. Of course I do not employ them only when I can't help it. I suppose they are like all trusts, even the coal trust, all robbers. If the people will only wake up and send men to Washington that will smash them up, which should have been done years ago, it is the only remedy I can see.

Beverly, Mass.

Mr. Welch addressed the meeting with especial reference to the statements recently put out in the daily papers by

been given these goods. They go on the same car with the other goods, and are, as a rule, delivered from the same teams.

Second—"In the transportation of flowers everyone of our employes realizes that extra precautions must be taken. They must not be exposed to the extreme cold or they will freeze, and if they are placed next to the steam pipes they will be destroyed. One is as bad as the other."

Reply.—If flowers are allowed to freeze, or are placed so close to the steam pipes that they are over-heated, thereby causing the loss of the shipment, this cannot occur except through the carelessness of the messenger. And the fact is that the raising of the rates will not remedy this trouble.

Third—"A large part of the flowers sent to us for delivery arrive at the station just before the departure of the train and must be specially handled. They must be delivered promptly, for many of them are for weddings, funerals or parties."

Reply.—It is true a large part of the flowers carried by the express companies from Boston to cities and towns in New England are delivered to the train a short time before its departure. Shippers are obliged to resort to this means to prevent any delay which might occur through the employes of the express companies setting aside the box, and failing to put it on the first train. Delivery to the train by the shippers should be considered a saving of labor on the part of the express companies in their not being required to call for these goods at the different stores.

Fourth—"If a Boston wholesaler sends flowers to Magnolia in the afternoon they arrive there after the abandonment of the regular delivery service, and must be sent out on a special delivery trip. Boxes are generally very light and bulky and are delivered for very small charges."

Reply. It is seldom that the express companies will accept a package of flowers for delivery out-of-town unless there is an express messenger on the train the box is intended to go on. If an exception is made, it will be done on condition that the shipper pay for a telegram to notify the agent in the city the goods are billed for, or otherwise the purchaser must be notified to meet them at the train. Such arrangements are invariably made with a stipulation releasing the express companies from any liability.

Fifth—"Claims for delay and injury in transit are constantly coming in and everyone of our employes, on each shipment of flowers, must make out a receipt showing time of handling, so that the box may be traced."

Reply.—On the question of claims for flowers injured in transit, we are safe in making the statement that the proportion paid by the express companies in settlement for claims for flowers is not any higher than is paid for loss of other merchandise. Judging from the experience of our house, from which the companies collect \$5.00 or \$6.000 per year in revenue, we are obliged to say that we have seldom, if ever, been successful in prosecuting a claim for loss or damage to flowers against a company.

Messrs. N. F. McCarthy, J. J. Kelley; representing Geo. A. Sutherland; George Patten, of Lowell; E. R. Shaw, of A. Gaedeke & Company, Nashua, N. H.; S. J. Reuter, of Westerly, R. I., and others addressed the meeting in a similar vein. W. W. Tailby called attention to a system in operation on the railroads for suburban parcel delivery within a ten-mile limit of Boston which he had found economical and efficient. He also told of very low rates being enjoyed by certain growers who bring their product to the flower market on a specified train, through a discriminating contract with Adams Express. Messrs. Welch, Shaw and McCormack having been appointed a committee to prepare resolutions, reported the following, which were unanimously adopted:

WHEREAS, The transportation of cut flowers to the Boston market has been carried on for years almost entirely by the Adams, American and National Express Companies, who have always carried cut flowers as first-class matter and have charged the highest rates on their schedule, but who have since December 10, 1902, arbitrarily and unreasonably increased the price of hauling said goods fifty per cent without in any way increasing the efficiency of their services; and

WHEREAS, Experience and modern means of conveyance and the establishment by these companies of local offices and branches in all sections of the country has very much lessened for the express companies the cost of transportation and the risk of handling said goods which are regularly forwarded every day in the year, and consequently they should be transported at reasonable rates instead of the increased rate now levied, and,

WHEREAS, We feel that the present rates are a discrimination against our business and therefore unlawful; and,

WHEREAS, This increase of tariff by the express companies is in line and following the leadership



BASKET OF CECIL BRUNNER ROSES AND ADIANTUM.

(Arranged by the Shanahan Floral Co., San Francisco.)

said she would not send them. The weight would not exceed one pound, yet the rate was as high as for 100 pounds of beef or other merchandise. I trust you will bring your influence to bear on this matter at once that our business relations may be continued.

Ogdensburg, N. Y.

ROYAL J. BARTER.

In regard to the express rates, I wish to say that the advance means much to me, as all my goods come by express and to pay the advance I have had to put the price of flowers up, and so will not sell so much, as my customers will not pay the price. In regard to special delivery, they don't have it here. I have to wait their time for them to deliver, and they won't deliver me anything on the last express. They have never paid me one cent for damages done to my goods.

Haverhill, Mass.

GEO. H. HILL.

I have entered a protest against the American Express Company through their agent in this

the local representatives of the express companies in justification of their action and presented in rebuttal the facts in each case as experienced by him in the carrying on of his shipping business. He took up the various pleas as follows:

First—"Flowers must be rated in a special class. They are extremely perishable and require the greatest care in forwarding and handling them. Then, too, they demand extra quick service."

Reply.—It is estimated on good authority that the revenue collected by the express companies on the carrying of flowers to and from the wholesale markets of New York City alone, amounts to \$17,000 to \$50,000 per annum. The revenue collected in New England for a similar business must be upwards of \$20,000. The majority of this business is done in carrying flowers to and from the city of Boston. Shippers and purchasers of flowers do not admit that any special care has

of the great trusts of this country in increasing their prices, not because better prices are deserved, but to multiply their earnings and because they feel they are powerful enough to force the public to agree to their terms: be it

Resolved, That we, the flower growers, flower shippers and merchants in and about Boston and vicinity, assembled under the auspices of the Society of American Florists, vigorously protest against the unwarranted, unprecedented and oppressive advance by said companies for the expressing of cut flowers.

And that we demand a speedy return to the old rates for the transportation of cut flowers, which amply and sufficiently repay said express companies for any and all risks of handling and the labor and expense of transportation.

Messrs. W. H. Elliott, P. Welch, E. R. Shaw and W. J. Stewart were then appointed a committee to represent the assembly in an interview with the local representatives of the offending express companies, present the above resolutions for their consideration and take such further action as would seem to them wise.

James L. Cowles, secretary of the Postal Progress League, was in attendance at the meeting and, being given the courtesy of the floor, made a ringing speech in favor of the proposed parcels post, postal insurance to the value of produce carried and a postal currency and quite a number of those present enrolled themselves as members of the league.

Representatives of the leading Boston daily newspapers were present and all the evening editions contained extended accounts of the proceedings at the meeting.

A Huge Design.

The accompanying illustration is reproduced from a photograph taken at Westfield, N. Y. The plaque was made by G. Schoenfeld, on the order of the citizens of that place, to be sent to Representative Nixon upon the occasion of the recent assembling of the New York state legislature. Westfield is Speaker Nixon's home town and above the panel bearing the words "From Home" there are, in immortelles, the figures 3424, Mr. Nixon's recent plurality for re-election. The design was five feet wide and seven feet high. The background was galax and ivy leaves. The flowers were roses and white carnations and much of the eagle and shield were immortelles.

The Violet Industry.

It has been remarked, jocularly, that every second building in Rhinebeck, N. Y., is a violet house and that they are now beginning to build others between. The violet center known as Rhinebeck really comprises in addition to Rhinebeck proper, the little places known as Red Hook, Barrytown, Staatsburg and Rock City. This aggregation boasts of upwards of sixty violet-growing establishments. Anyone who will consult the list of these growers in the Florists' Directory will be interested to note how many there are of identical families, three, four or five of one surname being not uncommon. There seems to be a sort of violet germ or contagion rampant in the neighborhood and they drift into the shuffle irresistibly. These growers have been mustered from a remarkable variety of industries, some having been chicken raisers, some farmers, architects, stove dealers, tax collectors, grocers or station agents; one still runs the street sprinklers in addition to his violet business and there are times when he might almost sprinkle the streets with violets, so abundant and cheap are they at certain seasons.

The variety grown in this famous



DESIGN SENT TO SPEAKER OF THE NEW YORK LEGISLATURE.

(By G. Schoenfeld, Westfield, N. Y.)

violet country is almost exclusively Marie Louise, the Imperials, Farquars Campbells and singles being practically out of the running, and no healthier plants, finer flowers or heavier crops can be found anywhere in the world. Everything seems congenial to the violet and disease of any kind is a rarity. Picking of flowers is done as early in the morning as possible and the bunches are put away with stems in water until time to pack up and drive to the New York train, where the goods are taken in charge by the express company. The nearest railroad station is Rhinecliff, two miles from Rhinebeck.

Time was, not very long ago, when, out of about every thousand violets, a good grower would select a hundred as specials that were well-worthy of the honor and would bring a very much higher price than the balance. But in recent years the word "special" has been much abused and, as is also the case with roses, has but little meaning, as variously interpreted by different growers. Some growers in these days, will pick fifteen hundred and bill them all as specials. The retailer cares nothing as to whether

a shipment is labeled "special" or not, neither does the fact that the blooms are bunched in hundreds—a distinction at one time accorded only to genuine specials—impress him as at all sensational, nor does the mere bunching in hundreds instead of fifties have any bearing on the market value, although some growers seem to think it should. One factor does count for something in the ultimate selling value and that is the bunching, as the tyro quickly realizes when he comes to market his awkwardly-finished product.

Good bunching, as understood in the New York market requires dexterity and patience. Much of the best bunching is done by the women of the family, they seeming to acquire the required facility much more readily than do the men. As a rule, each bunch is hooded with a sheet of paraffine paper for protection and to confine the fragrance. In packing, it is customary to lay the bunches close together in single layers on flats which rest on cleats in the packing boxes but with the finest grade of goods, in bunches of 100 flowers, shelves are sometimes used in which round holes have been cut to hold one bunch each.

The great increase in the number of violet-growing establishments within the past few years has entirely changed the aspect of the traffic in New York city. Whereas, some years ago, the bulk of the product passed through the hands of one commission man who made this flower his specialty, there are now nearly a score of operators. Under former conditions violet customers would begin to straggle into Mr. Gunther's about 2 p. m., well-supplied with smoking material to while away the time until the arrival of the regular daily shipment, each clamorous to secure his share, and when the receipts fell short of the demand, which frequently did happen, the question of price was seldom discussed. Now, there are more than enough for all and, instead of the buyer going in quest of the violet, the violet most often has to seek the buyer.

All the growers in "Up-Hudson" localities try to ship on the same train, the larger concerns daily throughout the season, others every second day or semi-weekly, according to capacity. The "Violet special," as this train is known, leaves Rhinecliff at noon and reaches New York city about 3:30 p. m. The Tuesday and Saturday shipments are apt to be the heaviest, 125 boxes from Rhinebeck being a not unusual Saturday cargo, and at Easter hay wagons are brought into service to convey the stuff down to the Rhinecliff railroad station. As the boxes contain anywhere from 1,000 to 3,000 flowers each it will be seen that a day's shipment often aggregates a quarter million blooms.

An American Express double truck is required every afternoon to deliver the violets to their various destinations in New York and, as there are from 100 to 125 waybills to be copied, at arrival of train, before the boxes can be loaded upon the truck it has become the custom, ever since the rivalry between the several commission houses grew so fierce, to send a boy or two from each to the Grand Central station to grab a couple of boxes and bring them by hand for hurry orders. These boys, to the number of fifteen or twenty, do a song-and-dance act until the train arrives and then trudge down Fifth avenue with their boxes, in a grotesque procession.

Half a dozen New York retailers acting in harmony can make or break the price of violets. They learn from the boys or the expressmen how many boxes have "come down" and their willingness to buy is based largely on the information thus obtained and all the "forcing" of values on the part of the wholesalers is futile if the retailers so decree. It is a common practice with some of the retailers to telephone to the various wholesale houses and have each send a couple of boxes of violets as soon as received. Out of the two or three dozen boxes thus secured for inspection three or four of the best are retained and the balance ordered back. The retail dealers do not "order" violets, now-a-days. They don't have to. And the day of fabulous violet prices in New York has undoubtedly gone, forever.

PORTLAND, ME.—Alex. Wallace has bought property at the corner of Danforth and Emery streets and will erect a range of glass in the spring.

CENTRAL FALLS, R. I.—The Lonsdale Botanical and Field Naturalist Society held its monthly meeting on January 5. The newly elected officers were installed and the reports of the auditors showed the affairs of the society to be in a strong condition.

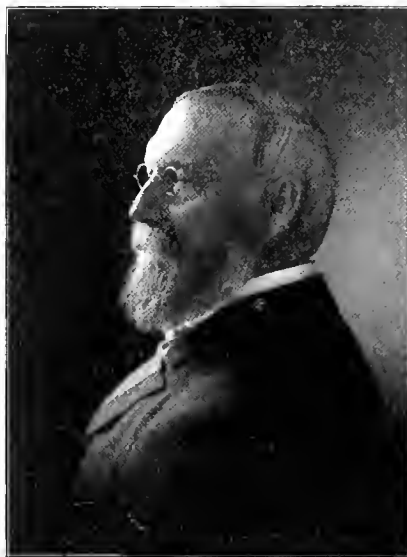
Florists' Plant Notes.

SMILAX.

If you intend to renew your smilax bed this summer, sow the seed now. Many growers prefer to renew their beds every year, and it doubtless pays them to do so, it certainly does not pay to leave them more than two successive seasons without replanting. Sow in flats, place in a warm house until the seed has germinated and keep them well watered. After the plants have formed two or three leaves, pot them into 2½-inch pots and later shift to 3-inch. Until planting out time they may be plunged into soil in a mild hot bed, where the full light and plenty of water are necessary.

ANTIRRHINUMS.

We have found the white variety of antirrhinum, commonly called snapdragon, to be most useful in design work,



The late P. S. Peterson.

besides using the longer-stemmed flowers for many other purposes. Young plants from 3-inch or 4-inch pots planted out in the open ground will produce an abundance of white flowers from early summer until late in the fall. About the time the carnations are housed, a number of plants may be transferred to the greenhouse for stock and for cutting during the winter months. We propagate from cuttings during January, give them small pots when rooted and later a shift to 3-inch or 4-inch, and plant out as soon as the weather permits. They may also be raised from seed, which may be sown during February, but seedlings are not as satisfactory, for the plants are not as compact in growth, nor do they produce as many flowers as those raised from cuttings.

PROPAGATING.

Now is the time to do a great deal of propagating of miscellaneous plants for the spring trade. Heliotrope, lobelias, sweet alyssum, marguerites, Santolina incana, and so forth, root readily now. A batch of geranium cuttings may be struck, if small plants in 2½-inch or 3-inch pots are wanted. These we do not root in sand at all, but pot off immediately into small pots in sandy soil, and after the first watering keep them on the dry side until rooted. For ordinary propagating, a side bench in a house with a temperature of 55° will

strike 100 per cent of all the cuttings put in the sand. See that the bench is well drained to allow the water to pass through freely, and thoroughly white-wash every part that comes in contact with the sand. Use clean bank or river sand, and change it for every new batch of cuttings put in. Keep them well sprinkled and shade from the bright sun by covering the cuttings with paper or cheesecloth. Later in the season, when the sun gets stronger, a light wash may be applied to the glass. Give plenty of air, but no strong draughts over the cutting bed should ever be allowed.

VERBENAS.

Unless you are growing verbenas from cuttings, sow the seed now. When of sufficient size, give them small pots, and later shift to 2½-inch or 3-inch. Early sowings should have the tops pinched out at least once to produce two or more flowers to a plant. A temperature of 45° will be warm enough to grow them, and when you get crowded for room in early April, plunge them out in soil in a mild hotbed, but give plenty of air and the full light or they will grow too tall and spindly. We prefer to grow them from cuttings and for this purpose we propagate in fall from young growths, using these small plants for stock. An abundance of cuttings may be had from now on, which root readily in sand. After they are rooted they are handled precisely as you handle the seedlings. After placing in the hotbed, they should be worked over several times to keep them clean; this will also give you the chance of checking the roots from ramifying in the soil and manure in which they are plunged. This is important, for to allow them unlimited root room will result in a very soft, rank growth that wilts badly when the plants are moved.

GLOXINIAS.

These beautiful summer flowering plants may be started at any time between the first of January and the middle of March. We start them at different times to keep up a succession of salable plants all summer. Start them in 4-inch pots in well-drained soil with some sand and one-third leaf mould added. Plant them just deep enough to cover the tops of the corms, place in a temperature of 60° and water thoroughly, but until they commence to make leaves, be more sparing in watering. When the leaves have reached the sides of the pots, shift to a 5-inch or 6-inch, drain the pots well with broken potsherds, and place them on inverted pots to allow a free circulation of air around them. Give plenty of room and syringe daily to keep down red spider, until the buds begin to open, after which water must be withheld from the foliage, lest in wetting the leaves the flowers will be ruined. In watering, turn on just enough force to allow a small stream of water to come from the end of the hose and water each plant separately. A light shading should be applied to the glass to prevent the hot sun from burning the foliage. G.

QUINCY, ILL.—F. W. Heckenkamp, Jr., welcomed a baby daughter into his family January 15. As one of his friends said, "it makes an even half dozen."

ATLANTA, GA.—The Nunnally Company says that the recurring holiday seasons are bringing increased calls for flowering plants, possibly because there are never enough cut flowers. This year trade again increased twenty-five per cent and all stock was short.



REPRESENTATIVE ERFURT SEED GROWERS, PHOTOGRAPHED AT THE EXPOSITION, ERFURT, GERMANY, AUGUST, 1902.

1. ———. 2. Mr. Beyer (Weigelt & Co.). 3. John Benary. 4. Mr. Liebau (Liebau & Co.). 5. Fritz Benary. 6. Mr. Brembach (Jewish Cemetery). 7. Mr. Gofferje (of J. C. Schmidt). 8. Mrs. Mueller (Prop. of firm J. C. Schmidt). 9. Otto Putz. 10. Mr. Lueder (of J. C. Schmidt). 11. Mr. Zopes (of J. C. Schmidt). 12. Mr. Boehr (of Boehr & Walter). 13. Mr. Walter (of Boehr & Walter). 14. Albert Pabst. 15. Mr. Schumann (of Platz & Son). 16. Mr. Stenger (of Stenger & Rotter). 17. ———. 18. Oscar Knopff. 19. ME. Christensen. 20. Franz Anton Haage. 21. Mr. Kuehn (of Jac. Sturm). 22. Franzchen Haage. 23. Mr. Weigelt (of Weigelt & Co.). 24. Carl Schmidt (Haage & Schmidt). 25. Fritz Gaertner (of J. C. Schmidt). 26. Mr. Mahling (of Chr. Lorenz). 27. Jac. Sturm. 28. Mr. Wolfram (Liebau & Co.). 29. Mr. Rotter (Stenger & Rotter). 30. ———. 31. Mr. Sturm, Jr.

The Prices of Plants.

ED. AM. FLORIST:—Replying to the true story and the query of W. L. Smith, I have to say that I read it carefully; in fact I read it twice, and I can only say that it is as true as gospel; indeed Brother Smith has made it very mild. The only remedy that I can see is that the trade, especially the growers, will work in harmony and unison for one common end. It would help if fifty or sixty per cent of the leading growers of stock, especially of plants, would come to some understanding, first as to a proper grading of stock; that is to say, to establish a uniform value for certain classes of stock; for instance, A1 roses, say, in 4-inch pots, to be worth so much; No. 2, a medium class of stock from the same size pots but not as valuable, at another price and a third class, same size pot at still another price, and so on with all classes of pot plants, and then agree with one another that they will not sell to anyone below these prices, the prices to be set by the dozen, hundred and thousand. Of course this would mean that a plant from a 4-inch or from whatever size of pot should be well rooted through, so as to carry its own soil at the roots and not a freshly-potted or over-potted plant, but a good, honest plant.

Then there is another thing which is most important and that is a time limit of credit. All stock should be sold for

cash, which should mean within thirty days after the sale of the goods. The goods should be settled for either in cash or with a promissory note with interest for a time not to exceed ninety days, and if the bills were not settled within ninety days, then this association, as it might be called, or Trade Exchange Association, whatever title or name it might be known by, should put such a customer or purchaser on the delinquent list. I believe there is no other class of trade that is more loosely and carelessly run and carried on than the wholesale florists' trade, I mean the wholesale growers, the people who grow the stock and then sell it to the trade, especially in the plant line. The cut flower business is in a much better shape; settlements have to be made promptly and at regular intervals; even the nursery business is in much better shape. They get more prompt settlements.

I find that in our line, I mean palms, ferns and stove plants, we are suffering from the same bad and dilapidated conditions; it has been a regular cut-throat business. Palms and ferns a few years ago, when it did not cost near as much to produce them as it does now, sold from twenty-five to fifty per cent higher than they do to-day. Why is it? Because we are all a lot of fools! We ourselves are to blame. I figure up what it costs me to grow a plant under the most favorable conditions and with the least expense. I find that it cost me 35

cents, for example, to grow it. I ought to get at least 50 cents for it. Therefore in order to get 50 cents for it net, it should be sold for not less than 60 cents because it costs something for advertising; it costs for your men on the road to sell them; it costs to pack and ship them from five to ten per cent if done as it should be done.

But now I find that if I offer these plants for 60 cents, somebody else is selling them for 45 cents or 50 cents, and sometimes less than that. Evidently this grower did not figure what it cost him to grow a plant. He simply does the business and he stays long enough in the business to do himself no good but to do a lot of harm to the legitimate grower, who has figured down his expense to a cent. Now we must either sell on the same basis with this man, who perhaps has only lately started in, but who is a competitor, or we must keep the stock. Then we lose here and there an account or we wait six to nine months or even a year and more for our money. Where is the profit?

We are ready to join in and agree with other growers to establish prices on graded stock and to hold to them. If your valuable paper will institute such a movement, employ a first-class man to establish such an association, we will be willing to pay our part of the expense, but something certainly ought to be done in order to protect the grower of potted-plant stock, especially such stock

as can easily be shipped from one part of the country to the other.

How much can a man make, for instance, on growing ferns in 2½-inch pots, or sometimes 3-inch pots, and selling them at 2 cents each, or \$20 per thousand, in fact selling them at \$15 per thousand? Still this is done and done very often, and other things in proportion. It is certainly a deplorable state of affairs, especially at this time. When every industry is at the height for making money, we are selling our stock for less than ever before.

HENRY A. SIEBRECHT.

A New Pot Holder.

One of the season's new devices is the patented pot holder shown in the accompanying illustration. It is made of malleable iron, light and very strong. The holder is constructed so that the support telescopes, allowing the pot to be placed at any height desired. The part holding the pot can be tipped and fastened at any angle, thus making it an indispensable article for decorators. It is being shown by Reed & Keller, New York.

Notes and Comments.

More trouble. Listen and I will read from a letter dated January 17. It is as follows: "Am just in receipt of a catalogue wherein I find a few varieties of chrysanthemums that are new to me, and possibly will need the attention of the Chrysanthemum Society of America. White Lady is described therein as a sport from Christmas Gift. You will remember that Mrs. R. W. Smith is supposed to be a sport from the same variety. Agnes Shellem, a white sport from Maud Dean. You will also remember a similar sport by the name of White Maud Dean, exhibited by John Lewis Childs before the New York committee in 1898." (Catherine Steinhoff is a reputed white sport from the same source, namely, Maud Dean, examined by the New York committee this year.) "The following varieties in the same catalogue are entirely new to me: Indian Maid and F. L. Sunderline. Bronze King, I am under the impression, is also a new name. Thomas H. Spaulding a few years ago disseminated one under the name of Bronze Giant, but I have no recollection of a variety by the name of Bronze King. I may, however, be mistaken, I am sometimes.

"Lady Roberts, an Australian variety, was disseminated, I believe, in 1900. It was a deep crimson with golden reverse. In 1901 a New York firm sent out a white variety under the same name, which was said to have been from the same seed head as was the well-known Timothy Eaton. At all events, from what I can learn, the white Lady Roberts and Timothy Eaton are so nearly identical that it is difficult even for an expert to distinguish the difference between them. The first Lady Roberts are to be offered at 50 cents each the coming season, the other at \$5 per hundred."

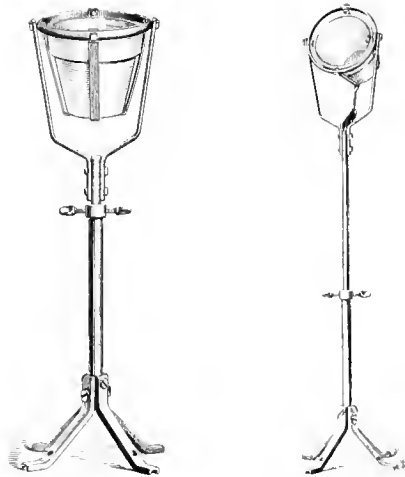
Here is where confusion is likely to come in, and if any florist after this warning gets caught, it is his own fault. All seedlings and sports worthy of dissemination are placed before one or more of the committees of the Chrysanthemum Society of America for examination. Or, if not, why not?

Speaking about ivory soap as an insecticide, all soaps, so far as I know, are considered efficacious for that purpose, as whale oil soap, Babbitt's, Fels-napha, Suddall's and may be lots of others. Theoretically, if a red spider is directly

hit with soapy water he ought to die, because he breathes through his hide and grease or anything of an oily nature ought to close up his breathing pores. I know of nothing against ivory soap as an insecticide, only some of us would like to know why it is superior in that respect to other soaps? E. L.

A Back Yard Hedge.

The illustration opposite shows a corner of the hedge of shrubbery inclosing a back yard 30x50 feet, making a charming, secluded retreat. The tall shrubbery, averaging fifteen feet, is principally syringa (philadelphus), Tartarian honeysuckle, lilacs and elders, with some smaller varieties in clusters at the base, also numerous clumps of perennials in variety. There is a fence, at the back and the depth from the fence to the inside border of the lawn averages seven feet, so it does not take as much space as it appears, being perfectly flat on one side. In this way those at the back stretch out longer and faster than would the same plants if put out on the open lawn. The demand for this sort of enclosure is on



A New Adjustable Pot Support.

the increase. It requires four years' growth after planting to produce anything like the desired effect and it is seven years before it is entirely satisfactory.

C. B. W.

Chrysanthemum Mrs. E. Thirkell.

Elmer D. Smith, Adrian, Mich., in writing to the editor of the AMERICAN FLORIST concerning the correct name of the above variety, has not succeeded in thoroughly clearing up the mystery. He says that two blooms of it were shown at Chicago under the name of Mme. Thirkell. Being interested in it he endeavored to localize it, that is, find out its origin. "The correct name," he asserts, "is Mrs. E. Thirkell, one of Thos. Pockett's seedlings."

He found it in the catalogue of the noted Australian raisers, G. Brunning & Sons, and gives their description of it. Then he goes on to say that the English firm of Messrs. Wells & Company catalogued the variety as Mrs. E. Thirkell, but that "Brunning & Sons handle all the Pockett novelties and are likely correct."

Some of the above conclusions are correct and others are otherwise. It is true that Messrs. Brunning handle T. W. Pockett's novelties, which is a very likely

circumstance, seeing that they are near neighbors in Malvern, Australia, and fast friends to boot; but Messrs. Wells & Company have the first handling of Mr. Pockett's novelties, a year in advance of anybody else.

Furthermore the seedlings come to England without name and are mostly named by someone or other in this country, after they have flowered and proved themselves sufficiently large and meritorious to be worthy of preservation and propagation.

The variety in question was named after Mrs. E. Thirkell, the wife of a gentleman in Liverpool, Lancashire, England, so that there can be no doubt about the correctness of the name.—*Gardening World*.

CARNATIONS.

SEASONABLE NOTES.

As the season advances, a nearer approach to natural conditions is met by a quick response on the part of our plants. Already the sun has increased materially in strength and we are enabled to supply a greater proportion of heat directly from nature. The nights, indeed, are cold, and hard firing will continue throughout the months of February and March. A night of zero weather is usually followed by a sunny day.

From now on most of the flowering stems will be more abundantly supplied with side growths than during previous months, and if these are not used for cuttings they should be removed in disbudding, leaving only two or three laterals well down in the body of the plant. In this way you will keep the body of the plant low and produce a better flower on a longer stem. By leaving only a few side growths at the base of the stem, instead of half a dozen or more, you will get a few flowers less late in the season, but it will be at a time when quality rather than quantity counts. None of the side growths on flowering stems that are cut now will bloom before Easter, and after Easter the market is always flooded with large quantities of flowers, many of which, though of fair quality, never find a buyer. The best always sell first, so keep the quality high; and all the more must we strive to do it when we anticipate a glut. Keeping the bodies of the plants low has also the advantage of keeping them well within the capacity of the supports. If allowed to break high up the stem the bench soon becomes a wilderness of crooked stems instead of presenting a neat show of straight, upright stems, as they will if the above point is watched.

Go over the plants every week to keep the growths in their proper places. If allowed to grow at will for three or four weeks it will take much more time to get the long shoots where they belong, with the additional risk of breaking many. Varieties that have very large flowers on rather soft stems, like Marquis and White Cloud, should have the third tier of wires and string put in, if you have not already done so. We always put this off as long as possible, as it proves quite a nuisance in disbudding and cutting the flowers.

Any mulch that has been used should be kept evenly distributed over the surface of the soil by rubbing over with the hand. The water soon washes it up in ridges and piles, and if not kept stirred and leveled off it will but poorly serve the purpose for which it is put on. This is also a good time to remove all weeds



A HEDGE SECURING SECLUSION AT THE REAR OF A CITY HOME

that can be found. They will grow very fast from now on, and, as they will be easier to reach than later on, this is the right time to destroy them.

Snow falling in large quantities sometimes piles itself thickly on the glass. This should not be left to melt off by degrees, as it often takes many days to disappear in this way, with the consequent obscuring of sunlight, but it should be removed with a stream of water or a scraper. Although too early to think of shading most varieties, we find Lawson requires a very light shade after February 1, if in a very light house, to keep the flowers from burning. Be careful to put it on extremely light, for a shade that will do more than temper the brightest rays of the sun will weaken the plants and damage future crops.

Watering and syringing will consume more time from now on. The heat from below at night and from above in daytime will dry out the soil much faster than heretofore. The plants will also be in shape to absorb more water and pass it off through the leaves. So not only should a sharp lookout be kept for dry places, but the soil should also be kept a few degrees wetter. Avoid extremes either way. We do not try to maintain a uniform degree of moisture in the soil at all times, but prefer to watch for just a suspicion of dryness and then give a copious watering. Digging down to the bottom of the bench now and then with a trowel will reveal dry spots that are often not noticed by a glance at the surface.

In watering with liquid fertilizer have the soil in just the condition to need a watering and give it just enough to bring it back to the right degree of moisture. If by any chance the soil hap-

pens to be a little overly dry give a light watering with clear water a few hours before using the liquid manure. On bright days when there is much air in the house it will often be noticed that the plants wilt slightly, and in cases of this kind the plants should have a very light syringing about ten o'clock in the morning.

At this time of the year we syringe for red spiders once a week. If any red spiders appear syringe twice as often and keep it up until the trouble is past. A sharp lookout must be kept for this little pest, as when not looked for their presence is seldom noticed before the plants show it in their physical condition. The trained eye sees much that the beginner overlooks, so if you are a beginner let not the slightest unusual sign escape a thorough investigation.

Rooted cuttings that are shipped in from other growers require careful watching until they are well established. These cuttings are far more apt to wilt than your own that are taken right from the sand. They have been in the box in most cases at least forty-eight hours and will be inclined to be soft. Water no more than you do your own, but put the paper on a little earlier and keep it on a little longer in the afternoon. It is also well to remember that these cuttings, being soft, rot easier than your own. They want a light bench, and in no case should they be robbed of the full daylight when there is no sun, unless the ventilators are wide open and the draught is apt to wilt them. Where it is possible to do so we prefer to ship our cuttings in unrooted and root them ourselves, as then we know their physical condition from start to finish and can give them just the treatment they need. J.

MORE ABOUT HANDLING NOVELTIES.

We buyers of novelties in the shape of rooted cuttings have each and collectively our own woes and troubles and an enumeration of them may not be amiss. Some think that the price of novelties is too high, but the writer is not one of these, as he has experimented with seedlings for some five years without getting a variety worthy of introduction.

Novelty growing is a business in itself and we of the east recognize Ward, Dorner, Fisher and Witterstaetter as being engaged in that business. In the west we have John H. Sievers getting results the equal, if not ahead, of the men named. There are, of course, hundreds of others growing seedlings to a greater or less extent who occasionally get a gem of the first water. When they do we in the natural course of events get to hear of it and more quickly if they are members of the carnation society and bring it to the meetings.

Ordinary growers have to look to both these classes for new varieties to take the place of the older ones that are gradually running out, as they are sure to do in spite of the most careful selection of cuttings. There is something in our method of culture that is sure to kill them as commercial varieties in from five to seven years after their general introduction to the trade, and we must have new ones with new blood to take their places in order to keep up the high standard the carnation has to-day.

Knowing that we are dependent, one upon the other, we should work our interests mutually. The novelty grower should not introduce a variety that he is not reasonably sure will prove a success with the majority of the growers, as it is far better to have no introduction to

make for a year or two than to put out one of those dismal failures we occasionally see. We, as buyers and growers, owe it to ourselves and to the introducer to give these novelties the very best care and attention our place affords and when it comes to housing them they should have the best place we have to give them.

In some instances a variety may be a failure the first season and a success the second. Most of us are observing enough to see the good points of a carnation and judge as to its worthiness of a second trial, but none of us are carnation men enough to condemn a variety with one year's experience unless it be that the flower is no good commercially.

Novelty growers should not court failure by sending out an inferior variety, neither should they assure failure by sending out inferior cuttings. Among my purchased novelties for this season I have two varieties that consist of heavy-foliaged, fine-looking cuttings that apparently have health and vitality to spare, and waste it they do, by throwing up a flower bud, instead of making a plant that will bring results next winter. We as buyers are entitled to good, selected cuttings at the price we pay and the introducer should have judgment enough to turn orders down after he has reached his limit of good stock.

Another point, and one which will no doubt bring some criticism from the introducers, is the date for delivery. Judging from a buyer's point of view, novelties that are selling at good prices should be delivered between the dates of January 1 and March 1. Then if they do not make good plants it is the buyer's fault. After March 1 it seems that it would be just to both parties to have a graded reduction in prices, say for those delivered between March 1 and 15, \$10 per thousand less than the early price, March 15 to April 1, \$25 less than the early price, and for those after April 1 just one-half the early price. The great majority of us cannot get good stock from late cuttings.

Another point of vital interest is the packing of the cuttings for shipment. It is rarely that a box comes here packed for bad weather. The first one received this season had an abundance of paper protection, but the moss used in wrapping the cuttings was very wet and, no lining of tissue paper being used, the other paper became thoroughly saturated with water, making the very best kind of a conductor for frost. It was simply a case of luck that the plants were not all frozen, as a half hour of exposure to the weather at any time during their transit would have frozen them into a solid mass. In the box was a slip reading: "This box was delivered to the express company in good condition and we are not responsible for any damage during transit." Was it delivered in good order? I do not think it was.

The second lot came through in good weather and arrived safely with barely enough protection to keep it from freezing if it had been exposed to the weather for the space of ten minutes. The third lot was better packed than either of the two mentioned, but came in very bad weather and was so badly frozen that out of 500 over 200 have died and the balance are not going to make plants that will be a credit to the variety.

Not only novelty shippers, but all others owe it to their customers to pack their plants so they reach their destination in good order, and if we are going to expect the express companies to assume the responsibility, then we had

better pack them open, with slats across the top, and let them see the perishable nature of the contents, instead of wrapping it with one or two thicknesses of paper and expecting them to know that it is not packed to stand ordinary handling. There could, and should, be several pages written on this one point if we expect to have the same low rate now enjoyed by plants shipped by express and hold the companies responsible for loss by frost. Fortunately the buyer usually pockets the loss, or makes the shipper do it, and the companies get very few complaints, otherwise they would no doubt soon advance rates. There is a movement on foot to have shippers charge a minimum rate for packing. When this goes into effect there will be no reason for saving a few cents on protective material and no reason why the shipper should not be responsible in full for the safe arrival of the plants shipped.

ALBERT M. HERR.

American Carnation Society.

The twelfth annual meeting of the American Carnation Society will be held at the Germania Club house, 122 Schermerhorn street, Brooklyn, N. Y., February 19-20. The exhibition will be staged in the Art Gallery and Association Hall, 174 Montague street, close by.

Owing to the fact that the articles of incorporation will be completed and the formulating of a constitution and by-laws will have to be finished at this meeting, it was thought best not to have any prepared programme, but to devote such time as may be free after the completion of the constitution and by-laws to informal discussion and to the question box.

The premium list provides open classes for the eight colors for 100, for fifty and for twenty-five blooms; the premiums are \$12 and \$6, \$6 and \$3 and \$3 and \$1.50 respectively.

Premiums of \$50, \$30 and \$20 are provided for the best collection of not less than ten or more than fifteen varieties.

The Ward silver cup and a second prize of \$10 are offered for collections of not less than six or more than ten varieties.

The Straus cup and Loeser vase are offered for collections of not less than five or more than eight varieties.

There is a silver cup for the best 200 blooms and for collections of single blooms there are premiums of \$15 and \$10.

The Lord & Burnham premiums of \$50 are offered for collections of commercial varieties.

C. Warburton offers \$25 for the best vase of Cressbrook and Peter Fisher \$25 for the best Wolcott.

The Lawson medals go to the three best vases of 100 blooms any variety.

The S. A. F. medals go to vases of 50 blooms of undisminated varieties.

Copies of the schedule of premiums may be obtained by addressing Albert M. Herr, Sec'y, Lancaster, Pa.

OAKLAND, CAL.—H. M. Sauborn says that his holiday business was seventy per cent greater than a year ago. Roses were wanted but all kinds of plants sold well.

CHATTANOOGA, TENN.—Mrs. J. W. Crouch says that the holiday season brought her more calls for high grade stock, both in plants and cut flowers, than she had ever had before. There has been plenty of stock, carnations the only shortage.

The Gardener's Wail.

Wauken, my muse! yer loolest wail,
Lend to proclaim the waeful tale,
O'er the ills that do assail
The gardener's occupation,
If ere by chance ye meet a chief,
Wi' careworn face and een that reel,
An' doombent head, then mark him weel—
His wark is cultivation.

Auld Milton said—I have heard tell,
When Adam's curses cam' pell-mell,
That waistly on the ground they fell,
As aff his head they gloriol
I weel believe't: the son o' toil,
Wha's lot hae fa'en to till the soil,
For want o' care will never spoil—
His sorrow's never stinted.

Lang syne, when Adam sawed his seeds,
Ere he began his evil deeds,
He ne'er was bathered pu'in' weeds—
Sae says the auld narrator
But noo, as sun's we tak' a spade,
An' get oor bit o' gairden made,
'Gainst us we quickly find arrayed
The very poeers o' nature.

If even the seasons had the grace
To come in turn an' keep their place,
We wadna' hae sae much to face,
Nor view wi' coosternation.
In summer, when we look for heat,
We're curs'd wi' shoovers o' hail an' sleet;
An' autumn's early frosts complete
The work o' devastation.

The rain has ruined oor crap o' Pens,
The blight has spoilt oor Apple trees,
Oor grozers covered wi' green flees;
An' then the festive sunniles
Did quickly seal oor 'Cabbages' doom:
Sna' wunner tho' we fret an' fume
To see oor best 'Chrysthan' munn bloom
Nabbed by the forky-tailies.

Oor foes are mair than mind can grasp—
The grub, the weevil, bug, an' wasp—
Worms for the 'Carrot an' the Rasp—
In truth their name is legion.
But, faith, I'll sluk' the gairden mud
Frae aff my feet afore I'm wud,
An' quickly pack ilk stick an' dud,
An' try some ither region.
—Hortus, in the Peoples' Journal.

The English Chrysanthemum Society.

After considerable discussion, the National Chrysanthemum Society of Great Britain has finally settled on its new home, and I think the majority of members will approve of the selection. The Crystal Palace, London, is to be the future meeting place, and the three shows are to be held there during the coming season. In many ways the Palace is a far more suitable place than the Aquarium, yet the latter had some advantages, its central location being one, and the managers of the Aquarium gave the officers of the society all the assistance possible. The shows held during the past season amply prove that both exhibitors and visitors thoroughly appreciate the exertions of the officers, and there is much cause for regret that it becomes necessary to move from where the society has for so many years held such successful exhibitions. Though perhaps after all, with more space at command we may get even larger and more successful meetings. There certainly seems no diminution in the interest taken by the public in these shows. The horticultural papers have always reported them fully and some of the daily papers have given notices, but the past season's shows have received far more notice from the press generally.

The dates fixed for the exhibitions at the Crystal Palace are October 6-7, November 10-12 and December 2-3. The Crystal Palace Company appears to have offered very advantageous terms and it is to be hoped that all interested will assist in making up a larger and more interesting show than has ever previously been held, and that there will be a greater number of visitors. From what I gather growers are very busy distributing cuttings. Some of the new



STEAM AUTOMOBILE LAWN MOWER USED ON THE ESTATE OF P. A. B. WIDENER, OGONTZ, PA.

varieties are in great demand and the early-flowering varieties are attracting more attention. Last autumn was so favorable for those flowering in the open that it has stimulated the interest in these. The single varieties seem likely to come to the front again. Some wonderfully pretty things were shown during the past season. For exhibition purposes the incurved varieties are being revived, but these find little favor for florists' trade. It is a pity that there is not more encouragement given to growing really decorative sorts. I think the market growers should offer a big prize for collections of best market sorts, grown under similar conditions as is required for trade purposes. H.

The Automobile Lawn Mower.

The illustration herewith is of the automobile lawn mower on the estate of P. A. B. Widener, Ogontz, Pa. As expected, the result of the season's work has again been very satisfactory. The automobile lawn mower, weighing, when fully equipped, some 3,000 pounds, has thoroughly demonstrated the value of constant and heavy rolling to secure good sod.

Wm. Kleinheinz, the head gardener, and a man of wide experience in such matters, speaks highly of its work. The elimination of the fall grass, which has become such a menace to good lawns in the east, is perhaps one of the most gratifying results. The portions of the lawn necessarily done by hand can at once be recognized by the presence of an abundance of fall grass. The firm, even green turf resulting from the use of the mower shows we do not properly roll our lawns; the grass is greener and the absence of weeds especially noticeable. The rapidity of the work, and simple detachments by which it becomes a steam roller, handy for drives, walks and so forth, its easy management, requiring only the intelligence of an ordinary workman, are sufficient merits, when they become well known, to make such a machine an indispensable adjunct to the management of lawn and grounds.

Trouble With Kaiserin.

ED. AM. FLORIST:—We forward under separate cover samples of our Kaiserin. The stock was planted about June 1 in a good clay sod, well rotted, to which well rotted cow manure had been added in the proportion of one wheelbarrow of manure to a wagon load of soil. The temperature at night has been 58° to 62° and we think they have had plenty of air and water. They did well until about the end of November, when the stems began to get weak and the flowers were all bullheads; then the plants began to drop their leaves. Since Christmas they have made fresh breaks but the new growth is soft. What is the trouble and what the remedy, if it is worth applying one? K. & F.

The samples show every indication of club root, one especially being very pronounced. The only remedy known to me is applications of lime water. Take about one-half bushel of fresh lime, slake it in the bottom of about a fifty-gallon barrel. When thoroughly dissolved fill the barrel with water, stir well and let it remain about twenty-four hours, leaving the lime to settle in the bottom. With this clear water give the bed a good soaking. This should be applied four or five times, once each week. Care should be taken to give air on all favorable occasions, as much depends on this to regain a healthy growth.

The Kaiserin is a heavy feeder and I doubt if the correspondent's soil was as rich as it should be for this rose. A wheelbarrow of manure to a wagon load of soil I consider poor diet for Kaiserin, except the soil is richer than any that has ever come under my notice. About one-fourth manure to three-fourths soil I consider much better, and would advise the correspondent to feed these plants with liquid manure or, if not convenient to do this, mulch them with well rotted manure as soon as they show signs of a healthy growth. The Kaiserin will always throw a small per cent of bullheads during January and February but this can be largely overcome by giving them a night temperature of 60° with 70°

during the day, with plenty of air and liberal feeding. My Kaiserins were planted in a solid bed in July 1893 and have bloomed continually, summer and winter, ever since and I consider them profitable, as there is always a demand for them, especially in summer.

W. W. COLES.

Chicago.

ROSE CROPS SHOW SLIGHT INCREASE.—BIG CUTS IN SIGHT.—RED NOW UNOBTAINABLE.—WHITE CARNATIONS IN DEMAND.—PLENTHY OF VIOLETS.—FIRE IN THE WHOLESALE DISTRICT.—BUILDING OPERATIONS.—VARIOUS LOCAL NOTES.

The rose crops have increased slightly under the influence of a few bright days, and it seems only a question of continued fair weather to put the growers all in crop again and give this market supplies of choice rose stock equal to all demands. It is not likely that there was ever a period of equal duration in which the rose supply was so inadequate to the requirements. Trade has not been heavy in the last two weeks, but the shipping demand has been such that not all orders could be filled, and prices have been high for the season. It has been almost impossible to meet the demand for red roses, and Bride has been a pronounced shortage, Bridesmaid, Chatenay and the other specialties more nearly equal to the demand. There has been an adequate supply of long Beauties, from the fact that the call was light. Medium grades have been scarce and the short-stemmed stock of poor quality. Funeral work has made a brisk call for white carnations and it has not been possible to supply them in quantity, with the result that prices must have been a consolation to the growers who are burning high-priced coal. There have been enough colored carnations for all requirements, some of the houses reporting pink a slow sale during the past week. Violets have been in large supply, and prices have eased off considerably in consequence. There continues to be a fair market for the best grade of goods, but the absence of the street salesmen will shortly be felt by the producers of low grade violets. Bulbous stock is on the increase. There are now ample supplies of tulips, white, pink and red, and callas and Harrisii are obtainable in quantity. Paper Whites, Romans and freesias are selling for funeral purposes. Amling is handling considerable quantities of sweet peas. There is a fair market for greens, but the market is amply supplied.

The Atlas Block, where many of the wholesale florists are located, at the corner of Randolph street and Wabash avenue, was the scene of another fire at about 4 o'clock last Monday morning. The blaze started in the show-room of the McCray Refrigerator Company on the street floor and in a few minutes had eaten its way through to John Muno's place on the floor above. By the time the firemen had finished operations there was a foot or more of water in Frank Garland's store in the basement and practically all the other houses on the basement floor were more or less inconvenienced by smoke, water or broken doors and windows, for the firemen broke into nearly every place in the building. Muno, Garland and Victor suffered the greatest loss, in the aggregate about \$500.

Committees of the Horticultural Society of Chicago and the Florists' Club met at 84 Randolph street January 20 to consider the matter of securing state

funds for experiment work with greenhouse crops at the horticultural department of the Illinois experiment station. Prof. J. C. Blair, of the department, was in attendance and the necessary preliminary steps were taken in the matter.

Poehlmann Bros. Company, at Morton Grove, is planning another big increase in its glass area this spring. They have already purchased a part of the material for ten houses 23x350, which will be planted to Beauties and tea roses. The Garland gutter is to be used.

Bentley & Company have ordered the material for a range of 10,000 feet of glass which they propose to push to completion at their plant at New Castle for early planting to Liberty. Later in the season they expect to put up another range of equal size.

Peter Reinberg says that this year's business in rooted cuttings eclipses all previous records. He is shipping carnation cuttings at the rate of several hundred dollars worth daily.

J. H. Bradley, general traffic manager of the American Express Company, has been on from New York and went over the matter of tariff on cut flowers with the local officials.

E. E. Pieser says the dark carnations, like Roosevelt, are not selling the way they should. They are difficult to move at the price obtained for equal qualities of other colors.

The Pittsburg Plate Glass Company has taken George Reinberg's order for 1,500 boxes of French glass 16x18.

J. A. Peterson, of Cincinnati, has been at the Palmer House with his samples this week.

The establishment so long conducted by E. K. McKinney is to be sold.

J. B. Deamud visited his farm at Caro, Mich., this week.

Visitor: F. H. Holton, of Holton & Hunkel, Milwaukee.

St. Louis.

TRADE BETTER THAN IN THE SAME PERIOD LAST YEAR.—GROWERS STILL HAVE THEIR TROUBLES.—AT THE WORLD'S FAIR.—VARIOUS NOTES.

Trade in general shows a decided increase over that of this month a year ago and the usually slack, after the holiday season has not been with us. Several plums were distributed among the big establishments during the past week, the most notable being the decoration at the Columbian Club for the banquet of the N. A. H. C., which was under the supervision of Harry Rieman. Electricity and running water were largely used and to good effect. The less pretentious stores have had a good trade and even the fakir rubs his hands gleefully as he gathers up the "crumbs that fall," etc. In the wholesale district, a few items have had a feverish tendency to advance, but prices in general ruled steady. Violets were in good quality and quantity, as were roses. Berning reports unprecedented demand for wild smilax.

At present little can be judged of future results on the great mound of forty acres at the World's Fair which will be devoted to horticultural interests, but there are already applications on file for more than half that space. Chief F. W. Taylor states that during his late eastern trip, among the florists and nurserymen, he found a decidedly increasing interest, and a generally expressed intention on the part of each one to out do all former exhibits.

The fuel question has not reached an acute stage, as yet, though it may soon.

The down-trodden grower, who has existed in the past despite the glass trust, the extortion of express companies and kindred destroyers of his peace of mind, as well as his use for a pocketbook, as a matter of course, wears a look of resignation, born of long suffering.

Among the growers the order of the day is potting, and from Hans, the foreman, to "Billy," the boy, all are shifting and making room. A fine healthy block of Harrisii was noticed at Bentzen's, and Jablonsky's Peru would make Brother Tinker, of Indiana, feel proud of his creation.

The collector is abroad on his mission, and vainly endeavoring to prove the truth of Dun's assertion that "collections are easier."

C. L. Connor, late of the West End, now occupies the location vacated by Ellison & Tesson.

Miss Lupe has opened a store at 517 Locust street, which should prove a winner.

Visitor: J. A. Peterson, Cincinnati.
J. H.

New York.

THE MARKET REACTS UNDER SLIGHTLY INCREASED SUPPLIES.—DEMAND MOVES IN INVERSE RATIO TO RECEIPTS OF STOCK.—QUALITIES ON THE IMPROVE.—CARNATION MEETING PREPARATIONS.—VARIOUS NOTES.

After a period of high prices a reaction is bound to come and such a condition prevails this week, prices having gone off twenty-five to thirty-five per cent, due to a falling off in demand and an increase in supply in all lines. The highest grades have suffered the greatest decline, although all grades have gone off in price. Although stock is coming in more freely, the supply is by no means heavy. The cut of Beauties is larger than last week and the demand is in inverse proportion to the supply. The quality of Bridesmaids is improving, a greater number of long stems and better color being in evidence. Golden Gates show up in good shape. Carnations are doing fairly well, but the lower grades begin to drag. Prices on carnations have been fairly well maintained up to the present, white selling best of the medium grades. Prosperity holds its own well. The requirements of both storekeepers and peddlers are met without difficulty so far as violets are concerned. Orchids move quite easily, Cattleya Percivalliana the slowest. Lily of the valley is in the dumps and selling as low as \$2 a hundred. Of other bulbs Golden Spur narcissus is doing best, selling as high as \$5 and \$6 per hundred. Paper Whites and Romans find a little consolation in the patronage of the small store man whose trade would not stand prevailing prices for roses. There is a fair sprinkling of freesia, sweet peas, stevia and mignonette, all of value at present to the economical buyer, and these, with tulips, which are now beginning to come along in acceptable shape, help to make up a good variety and make roses a little less indispensable. Smilax is the poorest seller in the "greens" line, asparagus in its several decorative forms being much more useful and popular.

At the meeting of the Brooklyn Horticultural Society Monday night routine matters occupied the attention of those present, the only subjects of public importance discussed being a report of the treasurer of further donations to the entertainment fund and the announcement by Mr. Langjahr of the donation

of a lamp by Abraham & Strauss, of Brooklyn, as a premium which will most likely be awarded as a third prize in the class for collection of carnations shown by the smaller growers. The list of patrons and patronesses of the exhibition was furnished by Prof. Hooper, of the Brooklyn Institute. The list includes the names of the most prominent ladies and gentlemen of the city, among them Lieut. Gov. Woodruff, who was the choice of the members for toastmaster at the banquet to be given the carnation society. A resolution of sympathy with David Deans, of Astoria, on the death of his daughter, was passed. The next meeting will be held February 2, when the preparatory work, it is expected, will be completed.

The annual meeting of the board of managers of the New York Botanical Garden was held on January 12. The director-in-chief was authorized to have plans prepared for large tanks for the accommodation of aquatic plants. The old officers were all re-elected. Dr. Britton's report indicated that the number of species grown in the herbaceous grounds exceeds 3,000, the fruticetum comprising about 530, the salicetum about fifty and the viticetum about sixty. The number of species of hardy trees represented is about 300. The collection of plants in the conservatories comprises about 5,800 species. The need of another range of plant houses is pointed out.

The dinner committee of the New York Florists' Club requests those who expect to be in attendance at that affair to communicate with the treasurer, C. B. Weathered, and secure their tickets. The date is Saturday, January 31, the hour 7:30 p. m., at the St. Denis Hotel.

Charles Lenker, of Freeport, has been giving the coal dealers in his vicinity lessons in their business. He gets his supply in carload lots and generously helps his neighbors out at a small advance over cost.

W. H. Traendly sprung a handsome new delivery wagon on the Twenty-eighth street fraternity last week. It was christened with appropriate ceremonies.

Roberts & Grnewald, of Columbus avenue, were burned out last Monday morning. The contents of the store were a total loss.

Mr. and Mrs. C. L. Allen will celebrate their golden wedding anniversary on January 27.

Lawrence Hafner mourns the loss of his mother, who died last week.

John Young is receiving lilac of superb quality this week.

Visitor: Mr. Clarke, of Portland, Ore.

LOWELL, MASS.—Paul R. Burtt has filed a petition in bankruptcy.

TROY, N. Y.—John A. Duke is making a great success of Prosperity carnation.

OMAHA, NEB.—Lewis Henderson was held up January 17 by three masked men and robbed of his watch and \$65.

MORRIS COVE, CONN.—The greenhouses of F. G. Horn took fire on the afternoon of January 3, but were saved from destruction by lively work by the "hucket brigade."

NEW CASTLE, IND.—The South Park Floral Company recently had a narrow escape from frost. Lime formed in the feed pipe from one of their boilers and cut off the heat but fortunately an emergency connection with another boiler had been made only the day before the cold wave came.

Philadelphia.

MARKET EASES UP ON LIGHT SUPPLIES AND LIGHT DEMAND.—PRICES STILL WELL HELD BUT CARNATIONS WEAKEN.—THE LILIES.—VARIOUS LOCAL NOTES.

There is a little easing up, not that the demand is less but the supply is better and there is not that great scarcity that has kept the retailers on the jump all the time from early morning until night for the past three weeks, grabbing a handful here and a dozen of something there, taking almost anything without respect to grade, so as to get the orders out. Prices, too, are receding a trifle. Carnations that were firmly held last week at \$4 are now to be had at \$3, and a very fair grade sells as low as \$2. White moves the quickest at \$3 to \$4, with a few fancies at \$5. If the growers would only pick them a little greener and not let them open so full on the plants their returns would be better, as most dealers know a good flower when they see it and fight shy of the full-blown stock. Roses are a shade lower, although all good stock is still either engaged ahead or sold on arrival. Prices are about the same as last week. Violets are now coming in better and the supply bids fair to increase rapidly. Very fair stock is offered at \$1 but for the best \$1.50 is still asked. Daffodils are scarce; in fact Leo Niessen has the market to himself, at \$6 for the single stock. Next week should see the Von Sions and then there will be no scarcity until the Easter season wanes.

Speaking of Easter brings to mind the lily crop. I have seen the stocks of the larger growers and they are in various stages of growth, from one or two inches up to six inches in height. Some are in 3-inch pots, others in 4-inch and some in 6-inch. There has been a general disposition to start them slowly. George Anderson, who has been most successful of late, seems to have the most backward lot, many of them being still in 3-inch pots and just peeping above the soil or rather the bulb, as there is no room for soil. He appears not at all concerned, however, as he generally gets them about the best of any whereabouts. A few in just at this time would sell well as the price for quite small flowers is 25 cents each, and not enough to supply the demand.

The January meeting of the Pennsylvania Horticultural Society, held last Tuesday evening, was very well attended. There were some fine exhibits. Geo. Morrison staged some extra fine specimens of *Primula Sinensis*. Jos. Hurley showed some extra choice cyclamens, the best we have ever seen in 6-inch pots. Francis Canning had fine specimens of *Primula stellata*. George Morrison prepared a paper on the Hawaiian Islands, a very interesting essay, which was read by David Rust, the secretary. After this Mr. Rust was taken completely by surprise, as Robt. Craig, acting as spokesman for a committee of the exhibitors at the recent flower show, presented him with a purse of over \$200 as a token of their appreciation of his efforts in the work done by him. Mr. Rust responded with a few words of thanks. His conduct of the office has always been commendable and his system of management during the various shows is well nigh perfect.

Good green is very scarce just now and very indifferent stock brings 50 cents per bunch. Adiantum is also scarce at \$1 per hundred, while smilax sells for from six to eight strings for a dollar.

Eugene Bernheimer is carrying a fine red carnation, an unnamed seedling which is larger and a more brilliant color than Crane.

Ed. Reid is the sweet pea man and can generally fill his orders with extra long-stemmed stock.

Collish has freesias in pots. There is very little cut as yet.

Harris and Craig are now sending in some nice azaleas. K.

Butte, Mont.

FLORISTS ORGANIZE.—THE GREAT STRIDES OF MOUNTAIN FLORICULTURE.—GOOD COLOR AND SUBSTANCE CHARACTERISTIC OF STOCK.

A florists' club was organized here January 15 and it promises to be a great success. The start was with twenty members. The officers are: President, O. A. C. Oehmler; vice-president, Victor Siegel; secretary, Elmer Law; treasurer, Everton Law. The club will be called the Montana Florists' Club. The object is to promote floriculture in Montana and to provide social benefits for its members. There are several more florists in the state whom we expect to become members of the club. There is no town in the west, and I do not know of one anywhere else, that has made the advancement in floriculture in the last five years that Butte has. Seven years ago there was not more than 20,000 square feet of glass in the state devoted to cut flowers. Now there is at least 150,000 square feet and there are half as many cut flowers shipped into the state as are grown here. Unless the express companies come down from their high perch there will be a large amount of glass put up in Montana in the next two years and less shipping done.

The price of coal has not affected the florists here as far as growing is concerned, as there is plenty of coal and prices have not advanced. The greenhouses of Montana have never been in as good shape at this time of the year as they are now. At Law Brothers' can be seen as good carnations as are grown in this part of the country. They are under the care of Jacob Seitz, who has had many years' experience in growing flowers in this western country. Hugh Connor, who has been foreman of the place for the last three years, is also a man of long experience and a successful grower in this mountainous country. We have as good growers and decorators here as can be found anywhere and the color that we get on our blooms can not be excelled elsewhere. It was thought a few years ago that roses could not be grown in Montana, but that idea has long since been abandoned, like some of our silver mines.

There are no roses or carnations that are shipped in (and they come from all parts of the United States) that will compare with the ones that are grown here for color and substance. Last August the Butte Floral Company cut carnations that would be creditable winter-grown flowers in the east. The State Nursery Company at Helena, cut carnations by the thousands until the first of September and threw the old plants out full of bloom and buds to make room for the new stock.

Chas. Horn, of Helena, is doing a prosperous business. He is centrally located and has remodeled his place until he has it in first-class condition and is growing some very good flowers. D. E. L.

Boston.

TRADE QUIET BUT CROPS LIGHT AND STOCK AVERAGING GOOD MONEY.—VIOLETS TAKE A BRACE.—QUALITIES SUPERIOR.—AGRICULTURAL SOCIETY PROVIDES FREE LECTURES.—NOTES.

Flower values are holding up with a remarkable persistency. Even violets, which were in the dumps last week, have braced up and are doing fully twenty-five percent better. Apparently we are to have no January glut this year. We escaped it last year, too. This time it is certainly due in part to the economical tendencies of the growers, who are wasting no heat at the present price of fuel, and crops are reduced in consequence. Business is not particularly brisk and high prices are due entirely to short supply. Any grower cutting a full crop this month will have no trouble in meeting his coal bill, even though it is high. White carnations continue to lead the colored sorts in sale and value. American Beauty roses are stationary where they were last week and prices will not, in all probability, advance again. The average quality of blooms received cannot be boasted of, the ratio of specials to the entire cut having diminished considerably. Queen of Edgely has not been seen in this neighborhood of late.

The Massachusetts Society for Promoting Agriculture, of which Prof. Chas. S. Sargent is president and Gen. F. H. Appleton secretary, has made arrangements for fifty public lectures with stereopticon illustrations to be presented during January, February and March in any Massachusetts city or town where application is made therefor. The lectures will be of a popular nature, intended to awaken the public to the increasing damage to shade and fruit trees by leaf-eating insects such as the elm-tree beetle, brown-tail, gypsy and tussock moth, and give instruction in the best means of combatting the evil. The services of a lecturer and lantern operator are furnished free, the only charge being the traveling and hotel expenses during the time actually devoted to a town.

H. A. Stevens, of Dedham, brought in a rare curiosity last Monday in the shape of a single carnation stem bearing two flowers. The stem had the flattened shape characteristic of such freaks and divided above the top joint, the twin flowers being each a first-class perfect bloom. The variety was Gov. Wolcott.

Ed. McMulkin is showing Bostonians the art of flower-window decoration. The big front on Boylston street is a poem in yellow this week; to see it is to stop, and to stop is to admire. Last week it was pink, the drapings and accessories being exclusively of tints harmonizing with the flowers, producing a rich effect.

The residence of Thomas F. Galvin, in Brooklyn, was entered by burglars on the evening of January 21 and jewelry to the value of \$1,000 was stolen.

The greenhouse of Jas. L. Little at Brookline was recently damaged by fire to the extent of about \$100. Defective flue.

At the Horticultural Club, on Thursday evening, Warren Ewell lectured on the "Scaptisciscus Didactylinus."

Visitors: H. Thiemann, Manchester, N. H.; Robt. Paterson, Portsmouth, N. H.; J. R. Fotheringham, Tarrytown, N. Y.

WESTFIELD, MASS.—S. E. Barton will build a modern greenhouse, 20x100, in the early spring.

THE AMERICAN FLORIST

EIGHTEENTH YEAR.

Subscription, \$1.00 a year. To Europe, \$2.00.
Subscriptions accepted only from those
in the trade.

Advertisements on all except cover pages,
10 Cents a Line, Agate; \$1.00 per inch.
Cash with C. order.

No Special Position Guaranteed.

Discounts are allowed, only on consecutive inser-
tions, as follows—6 times, 5 per cent; 13 times,
10 per cent; 26 times, 20 per cent;
52 times, 30 per cent.

Cover space sold only on yearly contract at
\$1.00 per inch, net, in the case of the two
front pages, regular discounts apply-
ing only to the back pages.

The Advertising Department of the AMERICAN
FLORIST is for florists, seedsmen and nurserymen
and dealers in wares pertaining to those lines only.

Orders for less than one-half inch space not accepted.

Advertisements must reach us by Wednesday to
secure insertion in the issue for the following
Saturday. Address

AMERICAN FLORIST CO., Chicago.

At Chicago the grand jury has indicted
forty-four coal men for conspiring to
maintain unwarranted prices.

THE largest jobbers of window glass
say that the history of the trade shows
an advance in the February allotment
over the January price.

SOME of the finest blooms of the Mrs.
Lawson carnation we have seen were
received at this office from W. W. Coles,
Kokomo, Ind., a few days ago.

J. A. PETERSON, of Cincinnati, whom
some have given the credit of having
grown the best Lorraine begonias seen in
Philadelphia this season, employs only
leaf cuttings in propagating.

It is stated that up to January 16,
seventy-four applications had been
received by the Board of Park Commis-
sioners of Milwaukee, Wis., for the posi-
tion of landscape architect and superin-
tendent.

News comes from Washington that an
earnest effort will be made to have an
item placed in the postoffice appropria-
tion bill providing for an experimental
parcels post similar to the experiments
made in the free rural delivery in 1896-97.
A bill is in course of preparation to that
effect.

THE articles of incorporation of the
American Carnation Society were filed at
Albany, N. Y., January 19. The pub-
lished list of directors is W. G. Berter-
mann, Fred. Lemon, A. M. Herr, Fred.
Dorner, Jr., Wm. Scott, W. J. Vesey, C. W.
Ward, Wm. Swayne and Eugene Daille-
douze.

J. L. DILLON, Bloomsburg, Pa., says
that in the first twelve days of 1902 he
made 104 shipments of cut flowers by
express. In the same period of 1903 the
number of shipments was eighty-six.
The only cause he can assign is the
increased express charge; cut flowers are
the same price.

Greenhouse Building.

Boulder, Col.—Ed. Hubbard, range of
houses.

St. Cloud, Minn.—Kindler Floral Com-
pany, one house.

Alliance, O.—L. L. Lamborn, house
24x100.

Clyde, O.—R. C. Arlin, one house.

Lexington, Ky.—John A. Keller, two
houses 30x125.

Minneapolis, Minn.—R. Will, range of
houses.

New Castle, Ind.—Bentley & Com-
pany, range of houses.

Cost Up and Prices Down.

AM. FLORIST CO.:—Enclosed find check
for the renewal of my subscription to
your valuable paper. And at the same
time please see that we poor fellows out
here get more and better coal very soon,
else we won't have the dollar to pay next
year. With Illinois soft coal at \$6 a ton
and the prices of stock as low as ever
floristing will soon go the dogs.

St. Paul. C. BUSSJAEGER.

The Rapacity of Express Companies.

The flower growers and shippers, the
first victims of the avarice of the com-
bination known as the Express Trust,
owe it to themselves and all those
dependent directly or indirectly upon
horticultural industries, to raise a pro-
test at once, all together, that will be
heard and understood, from Eastport to
the Golden Gate. The struggle in behalf
of justice and fair play which has been
taken up with so much earnestness in
Boston, a detailed account of which
affair appears in this paper, may be a
long one, but its final result cannot be
much in doubt if the example of the Bos-
ton florists be followed promptly in every
business center in the land.

Now, if ever, is the hard-won national
charter of the Society of American Flo-
rists in a way to demonstrate its utility
to the horticulturists of America and for-
tunate, indeed, is our profession that, in
this serious emergency, it finds itself but-
tressed and its vital interests safeguarded
by an organization with the influence
and prestige of the S. A. F.

That the society is able and willing to
make a stubborn fight for the right can
be accepted with certainty. But it is
essential that it have behind its conjoint
effort the individual support of every one
in the profession for which it acts. This
it implores, this it is entitled to. Call
your meetings, either through existing
local organizations or otherwise; get
together and voice your grievance; file
your protests promptly with Secretary
Stewart or with J. N. May, chairman of
the legislative committee, so that when
the executive board convenes at Mil-
waukee, a few weeks hence, the proper
material shall be on hand for that body
to make effective use of.

Discrimination in Freights.

John Pitcairn, president; J. M. Belle-
ville, general freight agent, and W. W.
Heroy, New York agent of the Pittsburg
Plate Glass Company, testified before the
Inter-State Commerce Commission at
Washington on January 6, in substantia-
tion that railroads are discriminating
against American manufacturers in their
import and domestic freight rates. They
submitted comparative statements show-
ing that glass can be transported from
Antwerp, Belgium, to Minneapolis,
Minn., at 25 cents per hundred pounds
less than from Pittsburg to Minneapolis.
Tariffs to other inland cities show similar
wide variations. Mr. Belleville said that
within the past four years it has been
possible to ship plate glass of any size in
carload lots from Antwerp to Chicago at
43.39 cents per hundred pounds, although
the domestic rate from Philadelphia to
Chicago is 57 cents, and from Antwerp
to East St. Louis for 46.11 cents per hun-
dred pounds, against a domestic rate of
67 cents from Philadelphia to East St.
Louis. According to the *Commoner* the
witnesses made deductions to show what
they believed domestic rates should be.

American Carnation Society.

P. J. Fay, gardener to Wm. Seward
Webb, Shelburn, Vt., registers Carnation
Mrs. Wm. Seward Webb, color white, a
sport from Mrs. Bradt that has not
reverted in three years and is therefore
considered as fixed and a distinct variety.
Flower very large, the original being
small in comparison; very double and
deeply fringed. More healthy and vigor-
ous than Bradt, with a longer-stemmed
flower that is fragrant.

Henry Eichholz, Waynesboro, Pa., reg-
isters Tiger, color orange, striped pink;
size two and one-half to three inches,
calyx very strong, seldom splits, type
that of Mayor Pingree, habit stiff, need-
ing no supports, foliage a dark green
and an early and continuous free bloomer.

ALBERT M. HERR, Sec'y.

St. Louis World's Fair.

Announcement is made by the executive
committee of the St. Louis World's Fair
that Frederic W. Taylor, who has been
acting chief for the past year, is to be
chief of the department of horticulture,
dating from January 1. This is in addi-
tion to the appointment made more than
a year ago, by which Mr. Taylor has
been and is to continue chief of the depart-
ment of agriculture.

It seemed desirable to have these two
great departments handled as a har-
monious whole, since the buildings to
house them are close together. The
building devoted to horticulture will
cover six acres and the one devoted to
agriculture twenty acres. Surrounding
these two buildings are forty-one acres
of ground, the entire area of which has
been placed in the hands of the chief for
planting and treatment. Applications
have already been received for outdoor
space to such an extent that it is assured
that the exhibit will be by far the largest
and best ever made at any exposition.
Indoor space has also been applied for in
a thoroughly satisfactory amount and it
is likely that within sixty days there will
be applications on file for the entire area.
The plans of the two buildings are well
under way and bids will be called for
upon one of them within ten days.

OBITUARY.

MRS. C. WARBURTON.

Chatterton Warburton, of Fall River,
Mass., the disseminator of Cressbrook
carnation, mourns the loss of his wife,
who died on January 20.

EMILY C. NORTH.

Emily C. North, widow of the late Jos.
W. North, died at Kimmswick, Mo.,
January 16. For a quarter of a century
Mr. and Mrs. North had been connected
with the trade at St. Louis. J. H.

MARTIN CROFT.

Martin Croft, landscape gardener at
the State Normal School, Indiana, Pa.,
died January 14, aged 32. He was for
several years engaged in newspaper work,
having founded the *Gazette* at McKees
Rocks, Pa.

MRS. F. L. AMES.

Mrs. F. L. Ames, eminent patron of
horticulture, died on Wednesday morn-
ing, January 21. She was a woman of
noble character, charitable and widely
beloved. Her notable estate at North
Easton, Mass., and her extensive orchid
collection, of which W. N. Craig has
charge, have world-wide renown.

CHARLES F. GIBBS.

Charles F. Gibbs, of St. Johnsbury, Vt., died on New Year's day, of neuralgia of the heart. He was a native of Hartford, Conn., born in 1850. He had been in the florist business at St. Johnsbury for more than twenty years. He leaves a widow, with two adopted children. Mrs. Gibbs will carry on the business.

P. S. PETERSON.

P. S. Peterson, proprietor of the Rose Hill Nurseries at Chicago, and who was one of the most widely known and said to be the wealthiest of Scandinavians in America, died January 19. He was born in Sweden, June 15, 1830. After five years in the gardens of his native land he spent three years on the continent, in leading horticultural institutions at Hamburg, Erfurt and Ghent, at which latter place he was with Louis Van Houtte. Coming to Toronto in 1851, he soon saw that the most open chances for success lay in the United States and he went to Rochester, then, as now, the center of the nursery interest of the country. He obtained employment with Frost & Company, beginning at \$8 a month and board. Within three years he had not only acquired the English language but was working for Ellwanger & Barry at the large salary, for those days, of \$100 a month. In 1856 Mr. Peterson established the present business, the Rose Hill Nursery, on a small piece of rented land then some miles outside of Chicago. In the next year a ten-acre tract of woodland was purchased and has since been added to until it now amounts to 496 acres, the largest piece of acre property in Chicago. Mr. Peterson's attainments in horticulture have found appreciation at home and abroad and have been recognized by many scientific societies. He is the second in over half a century to be voted an honorary member of the Horticultural Society of Stockholm. In 1865 Mr. Peterson married Mary A. Gage, of Boston. Their only child is William A. Peterson, a member of the firm and its manager since 1895.

SITUATIONS, WANTS, FOR SALE.

Advertisements under this head will be inserted at the rate of ten cents a line (six words) each insertion. Cash must accompany order. Plant ads. not admitted under this head.

Every paid subscriber to the AMERICAN FLORIST for the year 1903 is entitled to a five-line WANT ADV. (situations only) free, to be used at any time during the year.

Situation Wanted—By fireman, steam or hot water, steam fitting, building and glazing. Temperate. State wages. Address
FIREMAN, care American Florist.

Situation Wanted—By good grower of roses, carnations, etc., to take charge of section on good place; first-class recommendations. State wages, etc. Address ALPHEA, care American Florist.

Situation Wanted—By single young man on private place as second man; 7 years' experience in orchids, greenhouse plants and general work. First-class references. Address
F V, care American Florist.

Situation Wanted—By an experienced grower of roses, carnations, mums, violets and general line of bedding stuff, with 18 years' experience. State wages when writing. Address
ROSE, care American Florist.

Situation Wanted—To take charge of retail place. Good grower of roses, carnations and general line of pot plants; 18 years' experience; married; state particulars. Address
1017 Lawrence St., Philadelphia, Pa.

Situation Wanted—By all around florist and gardener, first-class references, married, no children; private place preferred; please state wages. Address
GARDENER,
Anna House, 102 N. Clark St., Chicago.

Situation Wanted—By good all-around grower, age 25, single, to take charge of carnation section or full charge of small place. References furnished and good wages expected. Address
RELIABLE, care American Florist.

Situation Wanted—By young American with 7 years' experience in stores; strictly temperate; experienced in table decorations and some designing. Used to first-class trade only. Best of recommendations. Address
Y R, care American Florist.

Situation Wanted—As foreman or to take full charge; life experience as grower and propagator of general florist stock. Roses and carnations a specialty. All references as to sobriety and ability; English, married. Please state wages, etc. Address
G R, care American Florist.

Situation Wanted—By first-class florist and landscape gardener; 25 years' experience, would like management in good lively retail business, or would take financial interest in the business with small capital with intention to buy eventually. Address
R, care American Florist.

Situation Wanted—As working foreman by first-class grower of fine cut flowers and plants, roses and carnations a specialty; first-class references; German, age 33, single; capable of managing a medium sized place to satisfaction. At Liberty March 1st. Address
G 50, care American Florist.

Situation Wanted—By married German man, 35 years, temperate and ambitious; 21 years' experience with roses, carnations, chrysanthemums and pot flowers and plants, capable of taking charge of parks or greenhouse; first-class florist and gardener, wants place by Feb. 10th. Address
AMBITION, care American Florist.

Situation Wanted—By florist and gardener on private or commercial business; 16 years' experience in roses, carnations, mums and general stock; good on lawns, trees, shrubs and vegetables; around Chicago or central states preferred; age 31; married, no children; references. Address
V C, care American Florist.

Help Wanted—Two good quick all-around greenhouse men. C. H. FREY, Lincoln, Neb.

Help Wanted—General all-around seedsman, German with family preferred. Address
U S, care American Florist.

Help Wanted—First-class seed man for counter retail trade. Good salary, good future; gilt edged references required. Write full particulars. AMZI GODDEN Co., Birmingham, Ala.

Help Wanted—Two experienced countermen for western seed house. Give full particulars as to experience, age, salary wanted and references. Steady places for the right parties. Address
L P, care American Florist.

Help Wanted—A good, experienced gardener who takes an interest in plants, cacti, etc., to take charge of private greenhouses and garden. Salary \$30 a month with room and board. Address with references, Mrs. CHAS. DUNTZE, 1989 Madison Ave., Memphis, Tenn.

Wanted—The address of John Anders Hagstrom. Address
S. G. BRYDGLE, Blsomsburg, Pa.

Wanted—To ascertain the address of Fred Brock. Address
LOUIS KIRCH, 1109 Milton Ave., Louisville, Ky.

Wanted—To buy or lease 10,000 to 15,000 feet of glass in good condition, near Boston. Want possession June 15. Address
Box 94, West Boylston, Mass.

To Lease—4,000 feet of glass, stocked, good trade, in college city of 7,000; possession at once; good reason for renting. Address
K C, care American Florist.

For Sale—Beautiful, comfortable little home and greenhouse 18x150 ft.; good business; quick and cheap; healthy climate. Address
HOUAE, care American Florist.

For Sale—Greenhouse, stocked, eight-room house, two lots, well located in Chicago; easy terms; for sale because of death of owner. Address
G. A. BANGS, 551 N. Robey St., Chicago.

For Sale—Established greenhouse business of about 10,000 feet of glass, with or without ground. Good opening with small capital. Must sell by April 1, 1903. Address
Onto, care American Florist.

For Sale—A suburban home of 30 acres in the city of Olney, Illinois, ¼ mile from postoffice. Good house, barn, greenhouse; and other buildings, orchard, well, cistern, city water and running water. For a suburban home, market gardener, truck farmer, a bargain, investigate. Address
J. P. WILSON,
P. O. Box 53, Olney, Ill.

For Sale—Near a large city in Indiana 15,000 square feet of glass, wholesale and retail, owing to inheriting estate, fine place, very reasonable on time. For terms and particulars address
C K, care American Florist.

For Sale or Exchange.

Fully stocked greenhouses, 20 miles from Chicago, 25,000 feet of glass; steam heat; paying well; part cash, balance good real estate or time to right party. Address
V J 95, care American Florist.

Situation Wanted.

Young man wants to represent a wholesale growing establishment on floor of The Chicago Flower Growers' Co. as seller. Good references and security. Address
LAUTEN, Care AMERICAN FLORIST.

WANTED!

SEEDSMEN to wail on counter trade and put up orders. Correspondence treated confidential. Address
SEEDSMAN, care American Florist.

WANTED!

FLORIST, competent, married, working foreman; good wages; also to the right man, a share of the profits. Give references. Address
EMPLOYER, Box 10, Station A, Cleveland, O.

Help Wanted For Park Work....

Pay 15 cents per hour; if satisfactory pay will increase. Steady work all the year around and must be sober and honest. Address
JACOB H. ROTH, Supt. of the City Parks,
SANDUSKY, OHIO.

FOR SALE, GREENHOUSES.

Well established, in good repair, 12,000 ft. glass, fully stocked with fine Carnations, Callas, Smilax; full supply of everything necessary; fine dwelling house; hot water heating; five years ground lease furnished, nine miles from Chicago courthouse. Price \$4,000; three-fourths cash. Good reason for selling. Address
E, CARE AMERICAN FLORIST.

FOR SALE or PARTNER WANTED....

MARKET GARDEN—76 acres, 4 greenhouses, hot water heat, fine residence, good barns and out-buildings; 4 acres in berries; telephone connection with city, 20,000 inhabitants. NO competition in the greenhouse vegetables. It will pay to investigate. Address
BOX 191, EAU CLAIRE, WIS.

GLASS FOR SALE!

We have 350 boxes direct from manufacturer, 16x18 D. S. A., more than we shall use this season at \$4.50 per box, F. O. B. Grand Rapids, Mich. Will sell all or any part. Address
Look Box 11,
CHAS. CHADWICK, Grand Rapids, Mich.

Gardeners' and Florists' Union No. 10615
...CHICAGO...

Special for Next Meeting, Wednesday, January 28, 8 p. m.

INSTALLATION OF OFFICERS AND INITIATION OF MEMBERS

It is absolutely necessary that all members be present to be initiated. Initiation conducted by Chief Organizer J. Fitzpatrick of the Chicago Federation of Labor.

CARL NIEMANN, President.

№1.
\$2.50

№2.
\$3.25

№3.
\$3.75

№4.
\$4.50

№5.
\$5.00

№6.
\$6.00

PRICE LIST.

American Beauties, extra select..... \$4.00 to \$5.00
 " " 18 to 24 in..... 2.50 to 3.00
 " " 12 to 15 in..... 1.50 to 2.00

Per Doz.

Brides, Bridesmaids and Ivory..... \$6.00 to \$11.00
 Meteor, Golden Gates..... 6.00 to 10.00
 Liberty..... 6.00 to 12.00
 Violets, Double..... \$1.00 to \$1.50 Violets Single..... .75 to 1.00
 White Violets..... 2.00 Carnations..... 2.00 to 3.00
 Lily of the Valley, selected extra long..... 3.00 to 5.01
 " " as good as can be had elsewhere..... 3.00 to 4.00
 Narcissus, Paper White..... 4.00
 Tulips, white, pink..... 4.00
 Adiantum..... 1.00
 " Princess..... 2.00
 Asparagus, Plumosus Strings..... Each 50c
 " Sprengeri..... 2.00 to 3.00
 Smilax..... 12.50
 Common Ferns..... \$2.00 per 1000..... .20
 Galax Green..... 1.40 " "..... .15
 Bronze Galax..... 1.50 " "..... .20
 Leucothoe Sprays..... 1.00
 Orchids, Cattleyas..... per doz. \$6.00

Prices Subject to Change Without Notice.

J. B. DEAMUD,
51 and 53 Wabash Ave., CHICAGO.

Caldwell's Kwality Kounts Brand Wild Smilax now on hand.

E. H. Hunt,

WHOLESALE Cut Flowers

"THE OLD RELIABLE."

76 Wabash Ave., ...CHICAGO.

Please mention the American Florist when writing.

Poehlmann Bros. Co.

Wholesale Growers of
and Dealers in **Cut Flowers**

All telegraph and telephone orders given prompt attention. 35-37
 GREENHOUSES: Morton Grove, ILL. Randolph Street, CHICAGO, ILL.

The F. R. WILLIAMS CO.

WHOLESALE FLORISTS.

Brides, Maids, Meteors, Carnations, Cut Adiantum, Galax, Common Ferns and Florists' Supplies.

Telephone Connections. CLEVELAND, OHIO.

BRUNS'

LILY OF THE VALLEY

Always gives satisfaction. They are strong pips, well rooted, and splendid for early forcing.

\$12.00 Per 1,000. Case of 2,500 \$29.00.
Per 100 \$1.35.

Best Cold Storage Valley, \$15.00 per 1000.
Finest CUT VALLEY in Quantities.

H. N. BRUNS,

1409 W. Madison St., CHICAGO, ILL.

GALAX LEAVES AND Leucothoe Sprays.

J. G. LOVEN, MONTEZUMA, N. C.

Holton & Hunkel Co.

Wholesale Florists,
467 Milwaukee St., MILWAUKEE, WIS.

SHIPPING LABELS FOR ...Cut Flowers

Printed in two colors on gummed paper; your card, etc., in black and leaf adopted by the S. A. F. in red. Very attractive. Price per 500, \$2.85; per 1000, \$4.50. Send for samples....

ELECTRO OF THIS LEAF, POSTPAID, \$1.25.
American Florist Co.,
CHICAGO.

Wholesale Flower Markets

MILWAUKEE, Jan. 22.

Roses, Beauty, long, per doz.	4.00@ 5.00
" " med.	2.00@ 3.00
" " short	1.00@ 1.50
" Liberty.....	15.00@ 18.00
" Bride, Bridesmaid.....	8.00@ 9.00
" Meteor.....	8.00@ 10.00
" Golden Gate.....	8.00@ 10.00
" Perle.....	6.00@ 8.00
Carnations.....	2.00@ 3.00
Violets.....	1.00
Romans, Paper Whites.....	2.00@ 3.00
Callas.....	10.00@ 12.00
Adiantum.....	.75@ 1.00
Smilax.....	18.00
Asparagus.....	65.00

PITTSBURG, Jan. 22.

Roses, Beauty, specials, per doz.	9.00@ 12.00
" " extras	6.00@ 8.00
" " No. 1	3.00@ 5.00
" " No. 2	1.00@ 1.50
" Bride, Bridesmaid.....	6.00@ 20.00
" Meteor.....	6.00@ 15.00
Carnations.....	1.00@ 4.00
Paper Whites, Romans.....	2.00@ 3.00
Tulips.....	3.00@ 4.00
Lily of the valley.....	3.00@ 4.00
Violets.....	.50@ 1.50
Lilac..... per bunch,	2.00@ 3.00
Smilax.....	12.00@ 15.00
Adiantum.....	1.00@ 1.25
Asparagus, strings.....	50.00@ 75.00
" Sprengeri.....	2.00@ 4.00

CINCINNATI, Jan. 22.

Roses, Beauty.....	6.00@ 50.00
" " Bride.....	4.00@ 8.00
" " Bridesmaid.....	4.00@ 8.00
" " Meteor.....	4.00@ 8.00
Carnations.....	3.00@ 6.00
Lily of the valley.....	4.00@ 5.00
Harrisit lilies..... per doz.,	\$2.50
Romans, Paper Whites.....	2.00@ 4.00
Asparagus.....	50.00
Smilax.....	12.50@ 15.00
Adiantum.....	1.25

St. Louis, Jan. 22.

Roses, Beauty, long stem.....	20.00@ 50.00
" " Beauty, medium stem.....	8.00@ 15.00
" " Beauty, short stem.....	3.00@ 8.00
" " Bride, Bridesmaid.....	4.00@ 10.00
" " Golden Gate, Meteor.....	4.00@ 10.00
" " Perle.....	4.00@ 8.00
Carnations.....	1.50@ 5.00
Violets.....	1.00
Paper Whites, Romans.....	3.00@ 4.00
Tuberose.....	4.00
Lily of the valley.....	4.00
Smilax.....	12.50
Asparagus Sprengeri.....	2.50
" Plumosus.....	75.00

Bassett & Washburn

76 & 78 Wabash Ave., CHICAGO.

Wholesale Dealers and Growers of **Cut Flowers**

GREENHOUSES: HINSDALE, ILL.

J. M. McCULLOUGH'S SONS,

Successors to
The Cincinnati Cut Flower Co.

316 Walnut St., WHOLESALE FLORISTS
CINCINNATI, O.

Consignments Solicited.
Special Attention given to Shipping Orders.

GALAX BRONZE OR GREEN, \$1.00 per 1000; 75c per 1000 in 5,000 lots.

LEUCOTHOE SPRAYS, BRONZE OR GREEN, \$1 per 100.
 FANCY FERNS, \$1.50 per 1000.
 GREEN SHEET MOSS, choice stock, \$2.50 bbl. sack.
 SPAGNUM MOSS, \$1.50 per bale.
 SOUTHERN SMILAX, per 50 lb. case, \$6.00; per 35 lb. case, \$4.50; per 25 lb. case, \$3.50.
 All kinds of FLORISTS' SUPPLIES.

L. J. KRESHOVER, 110-112 W. 27th St., N. Y.
Tel. Call 597 Madison Sq.

H. G. BERNING

Wholesale Florist

1322 Pine St., ST. LOUIS, MO.

RICE BROTHERS

WHOLESALE FLORISTS and FLORISTS' SUPPLIES.

Wild Smilax. Receivers and Shippers of CHOICE CUT FLOWERS.
Special attention given to shipping orders. Send for price list of supplies.

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Wholesale Florist,

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ST. LOUIS, MO.

A complete line of Wire Designs.

Pittsburg Cut Flower Co., Ltd

WHOLESALE FLORISTS.

Pittsburg, Pa.

GREEN GOODS...

We have practically unlimited supplies of Smilax and Asparagus Plumosus, long, heavy strings, and can handle orders of any size at any time. Call on us for all your needs.

THERE IS AN INCREASE IN THE CROP OF
and the qualities of Brides and Maids are all that could be asked.

Roses

TWO LONG DISTANCE TELEPHONES AT YOUR SERVICE, CENTRAL 1977 AND 1999.

E. C. AMLING,

THE LARGEST, BEST EQUIPPED AND MOST CENTRALLY LOCATED WHOLESALE CUT FLOWER HOUSE IN CHICAGO.

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.....CHICAGO, ILL.

WEILAND & RISCH

WHOLESALE GROWERS AND SHIPPERS OF

59 WABASH AVE.

CUT FLOWERS

CHICAGO

PETER REINBERG,

Grower and Wholesaler of Cut Flowers.

600,000 FEET OF GLASS.

Headquarters for American Beauties.

51 WABASH AVE., CHICAGO, ILL.

FRANK GARLAND,

Wholesale Grower of Cut Flowers

SPECIAL ATTENTION GIVEN TO HARDY CUT FERNS
55-57 WABASH AVENUE, CHICAGO.
Telephone Central 3284

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Room 221, 51 Wabash Ave., CHICAGO.
TELEPHONE CENTRAL 3598. All telegraph and telephone orders given prompt attention.

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Michigan Cut Flower Exchange.

FANCY FERNS, \$1.00 per 1000. Discount on large orders. Give us a trial for Ferns the year around.

GALAX, Green and Bronze, \$1.25 per 1000.

28 Miami Ave., DETROIT, MICH.

FOR SOUTHERN WILD SMILAX

(Where Quality is First Consideration.)
Write, Wire or Phone the Introducers,

Caldwell The Woodsman Co., Evergreen, Ala. or their agents: L. J. Kreshover, New York; J. B. Deamud, Chicago; H. Bayersdorfer & Co., Philadelphia; W. F. Kasting, Buffalo; J. M. McCullough's Sons, Cincinnati, Ohio; Vail Seed Co., Indianapolis.

ALWAYS mention the AMERICAN FLORIST when writing to advertisers.

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F. F. BENTHEY, Manager.

Wholesale and Commission FLORISTS

Consignments Solicited.

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37-39 Randolph Street, CHICAGO.

Roses and Carnations A Specialty.....

WHOLESALE GROWER OF CUT FLOWERS

MICHAEL WINANDY,

Wholesale Grower of Cut Flowers and Rooted Cuttings.

Salesroom: 60 Wabash Ave., CHICAGO.

Greenhouses: Cor Devon Ave. & Robey St.

TELEPHONE 3067 CENTRAL.

TELEPHONE 642 ROGERS PARK.

Wholesale Flower Markets

CHICAGO, Jan. 23.		
Roses, Beauty, 36-inch stems		6.00
" " 30 " "		5.00
" " 24 " "		4.00
" " 20 " "		3.00
" " 15 " "		2.00
" " 12 " "		1.50
" " 6 to 8 " "		1.00
Liberty	8 00@20.00	
Chatenay	8.00@18.00	
Bride, Bridesmaid.....	6.00@15.00	
Meteor, Golden Gate.....	6.00@12.00	
Perle.....	6.00@12.00	
Cattleyas.....	\$7.50 per doz.	
Violets.....	1.00@1.50	
Carnations.....	1.50@5.00	
Romans, Paper Whites.....	2.00@3.00	
Tulips.....	3.00@5.00	
Lily of the valley.....	4.00@5.00	
Asparagus, per string, .50@.75		
Adiantum.....	1.00@1.50	
Common ferns, per 1000, 2.00		.25
Smilax, per dozen, 1.50		

A. L. Randall,

WHOLESALE FLORIST.

4 Washington Street, CHICAGO

Send for weekly price list and special quotations on 1000 lots.

GEO. REINBERG,

Wholesale Grower of Cut Flowers

CHOICE AMERICAN BEAUTIES.

We will take care of your orders at reasonable prices. Prompt attention.

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GEO. A. SUTHERLAND,
34 Hawley St., BOSTON.

Telephone 1270 Main.

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An entire floor Devoted to Stock and Manu-
facturing. Distributing Agent for United States
for the wonderful

Floral

LETTER, unequalled for design
work. Script, any color, 3 1/2c a
letter. Block letters, 1 1/2c each.
The most elaborate design work
to order in a few minutes.

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SEND YOUR ORDERS FOR
Flowers of White Carnation LILLIAN POND
Also MRS. THOS. W. LAWSON. CAN SUPPLY LIMITED
NUMBER DAILY.....
WELCH BROS., 15 Province St., ...BOSTON, MASS.

H. C. RIEDEL.

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RIEDEL & CO.
WHOLESALE
Commission Florists.

34 West 29th Street,
NEW YORK.

Strictly Wholesale. Correspondence Invited.

THE
NEW YORK CUT FLOWER CO.
55 and 57 West 26th St.,
WHOLESALE FLORISTS,
Daily Reports. Weekly Payments.
TELEPHONES: J. A. MILLANG,
2239 Madison Sq. MANAGER.
2034 Madison Sq.

GEORGE SALTFOED,
Wholesale Commission Florist,
46 West 29th Street, NEW YORK.
Fair dealing and prompt returns guaranteed.
Correspondence solicited.
Author of "How to Make Money Growing Violets."

N. F. McCARTHY & CO.
Best Quality
CUT FLOWERS
and Supplies,
Tel. 734 and 64 Main. 84 Hawley St., BOSTON.

Wholesale Flower Markets

BOSTON, Jan. 21.

Roses, Beauty, extra	60.00@75.00
" " medium	20.00@40.00
" " culls	6.00@ 8.00
" " Bride, Bridesmaid, Meteor	4.00@ 8.00
" " extra	12.00@18.00
" " Liberty	15.00@25.00
Carnations	2.00@ 3.00
" " Special	4.00@ 6.00
Lily of the valley	2.00@ 4.00
Violets	.60@ 1.00
Paper White narcissi, Hyacinths	2.00@ 3.00
Trumpet narcissi	3.00@ 4.00
Harrisii lilies	8.00@12.00
Adiantum	.75@ 1.00
Asparagus	50
Smilax	12.50@18.00

PHILADELPHIA, Jan. 21.

Roses, Tea	8.00@12.00
" " extra	15.00@18.00
" " Beauty, extra	50.00@60.00
" " firsts	25.00@40.00
" " Queen of Edgely, extra	50.00@60.00
" " firsts	25.00@30.00
Carnations	2.00@ 6.00
Violets	1.00@ 1.50
Lily of the valley	3.00@ 6.00
Asparagus	25.00@50.00
Smilax	12.50@15.00
Adiantum Farleyense	8.00@10.00

BUFFALO, Jan. 22.

Roses, Beauty	25.00@75.00
" " Bride, Bridesmaid, Meteor	6.00@12.00
Carnations	3.00@ 5.00
Violets	1.50@ 2.00
Paper Whites, Romans	2.10@ 4.00
Lily of the valley	3.00@ 4.00
Smilax	15.00@20.00
Adiantum	1.00@ 1.50

The Philadelphia Wholesale Flower Market.

Phones, Keystone and Bell.

1224 CHERRY STREET, PHILADELPHIA.

Is now open and ready for business. Consignments of good stock solicited, especially Valley, Violets and Carnations. Commission, 10 per cent and \$50 annual stall rent, payable monthly in advance. Flowers, choice of this market, carefully packed and shipped at short notice

Give Us a Trial. We Can Please You



Roses, Carnations and all kinds of Seasonable Flowers in stock.
WM. F. KASTING, Wholesale Com-
mission Florist,
481 Washington St., Buffalo N. Y.
Dealer in Florists' Supplies and Wire Designs.
Open Day and Night.

Galax AND Leucothoes.

Selected, Bright and Brilliant.
Wholesale Trade Solicited.....

J. L. BANNER & CO., Montezuma, N. C.

N. Y. CUT FLOWER EXCHANGE

Coogan Bldg. 6th Ave. and W. 26th St., New York.
Open for Cut Flower Sales at 6 o'clock
Every Morning.....

DESIRABLE WALL SPACE TO RENT FOR ADVERTISING.

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It is good business policy to mention the

American Florist

.....when writing to an advertiser.

THE KERVAN COMPANY

Southern Smilax; Cycas Palm Leaves, fresh and painted; Fern, Galax, Ivy and Magnolia Leaves; Leucothoe Sprays; Holly; Mosses; all green decorative material. The best that grows. We have no other sort. Write for our list of stock with prices.

Telephone, 1519 Madison Sq.

20 WEST 27th STREET, NEW YORK.

White Lilacs and Daffodils Leo. Niessen,

IN QUANTITIES.

On and after Sept. 15th will be open from 7 e. m. till 8 p. m. until further notice.

WHOLESALE FLORIST,
N. W. Cor. 13th and Filbert Sts., Phila.

FLOWERS SHIPPED BY
JOHN I. RAYNOR

ARE THE BEST PRODUCT OF THE BEST GROWERS FOR THE NEW YORK MARKET.

Adiantum Croweanum 49 W. 28th Street, NEW YORK,
Sold here Exclusively. Tel. 1998 Madison Square.

YOUNG & NUGENT

Tel. 2065 Madison Sq. NEW YORK. 42 West 28th St.

Are supplying the most superb stock of FLOWERS ever offered to New York buyers. Meteor, Liberty, Beauty, Bride and Maid Roses. Splendid Cattleyas Gigas and Mendellii.

SEND FOR QUOTATIONS.

Walter F. Sheridan,
Wholesale Florist,

Telephone 902 Madison Square.

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Telephone Nos. 2239 and 2034 Madison Square,



MOORE, HENTZ & NASH

Wholesale Commission Florists.

55 and 57 West 26th St. NEW YORK CITY.

Advice or sale note daily. Statement and check weekly. All consignments, large or small, receive the same attention. CORRESPONDENCE INVITED.

VIOLETS. WILLIAM GHORMLEY, VIOLETS.
Wholesale Commission

Daily Receiver and Shipper of Fresh Cut Flowers.

Orchids, Roses, Carnations, Valley, Chrysanthemums.

Telephones 2100 and 2200 Madison Square.

57 West 28th Street, NEW YORK CITY.

JOHN YOUNG

Special American Beauties,
Surpassing Carnations,
Lily of the Valley, Orchids,
and all Seasonable Flowers.

51 West 28th St., NEW YORK.
Tel. 1905 Madison Sq.

THE RECOGNIZED HEADQUARTERS IN
NEW YORK CITY FOR

Violets and Carnations

GROWERS and BUYERS make a note of this. It will be to your advantage.

WM. H. GUNTHER,

80 West 29th St., New York.
Telephone 551 Madison Square.

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Open from 6 a. m. to 5. p. m.

Cut Flower Exchange, 55-57 W. 26th St.
Phone 299 Madison Square. NEW YORK.

ESTABLISHED 1872.

JOHN J. PERKINS,
COMMISSION FLORIST,

Solicits Consignments or Shipping
Orders. Satisfaction given in both.

Tel. 856 Madison Sq. 115 West 30th St., New York.

Bonnot Bros.

WHOLESALE FLORISTS.

65 and 57 W. 26th St. New York.
Cut Flower Exchange.

OPEN 6:00 A. M.

An Unequaled Outlet for Consigned Flowers.

Choice Carnations. Selected Roses.
Traendly & Schenck
NEW YORK CITY,

38 W. 28th Street, Cut Flower Exchange.
New Telephone No. 798 & 799 Madison Sq.

Wholesale Flower Markets

NEW YORK, Jan. 21.

Roses, Beauty, Edgely, best.....	40.00@60.00
" " medium.....	20.00@30.00
" " culls.....	3.00@10.00
" Bride, Bridesmaid, best.....	10.00@15.00
" " medium.....	6.00@ 8.00
" " culls.....	3.00@ 5.00
" Meteor, Golden Gate.....	6.00@12.00
" Liberty, best.....	30.00@40.00
" " ordinary.....	10.00@20.00
Carnations, fancy.....	4.00@ 6.00
" " ordinary.....	1.50@ 3.00
Violets, special.....	.75@ 1.00
" " ordinary.....	.30@ .50
Lily of the valley.....	2.00@ 3.00
Trumpet narcissi.....	4.00@ 6.00
Romans, Paper Whites.....	1.50@ 2.00
Cattleyas.....	25.00@ 60.00
Smilax.....	8.00@10.00
Adiantum.....	.50@ 1.00
Asparagus.....	35.00@50.00
" Sprengerl, doz. hun.	2.00@ 3.00

Charles Millang
WHOLESALE FLORIST.

Conservatory connected from which can ship
ferns and decorative plants promptly

50 West 29th St. NEW YORK
Tel. 2230 Madison Square.

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Receivers and Shippers of

FRESH FLOWERS,

111 West 30th St., NEW YORK.
Telephone 157 Madison Square.

REPRESENTING EMINENT GROWERS.

Julius Lang

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ALEX. J. GUTTMAN,

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A full supply daily of the choicest
New York and New Jersey
FLOWERS.

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Telephone 1738 Madison Square.

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Wholesale Commission Florist,

BEST FLOWERS SHIPPED AT LOWEST
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EDW. C. HORAN,

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Telephone 421
Madison Square.

....NEW YORK.

CUT FLOWERS AT WHOLESALE.

THE SEED TRADE.

AMERICAN SEED TRADE ASSOCIATION.

WALTER P. STOKES, Pres.; C. N. PAGE, First Vice-Pres.; S. F. WILLARD, Wethersfield, Conn., Sec'y and Treas.
Twenty-first annual convention, Philadelphia and Atlantic City, June 23-25, 1903.

HENDERSON'S Bush Lima beans are scarce, recent sales being reported at \$5 per bushel.

STOWELL'S Evergreen sweet corn is either scarce or some one has cornered the market.

A. J. BROWN, of Grand Rapids, Mich., visited Chicago during the week enroute to the east.

AMERICAN seedsmen will be interested in the group photograph of the seedsmen of Erfurt, Germany, reproduced on page 937 of this issue.

VISITED CLEVELAND: C. W. Scott, representing Vaughan's Seed Store, Chicago; Arnold Ringier, representing W. W. Barnard & Co., Chicago.

VISITED CHICAGO: Chas. Schwake, representing Chas. F. Meyer, New York; Ralph M. Ward, representing Wm. Hagemann & Company, New York.

The John A. Salzer Seed Company, La Crosse, Wis., reports that mail order business the first twenty-one days of January was forty-eight per cent ahead of last year, with catalogues five days later in getting out.

A. TILTON, founder of the firm of A. Tilton & Sons, Cleveland, Ohio, has retired from the business, which will be continued by the sons, G. A. and J. H. Tilton, under the old firm name. The business was established in 1858.

THE H. N. HAMMOND Seed Company, of Bay City, Mich., whose new catalogues were destroyed in the recent fire at the Adventist printing plant at Battle Creek, relet the contract at once in Chicago and lost only about two weeks' time. The catalogues were not insured.

THERE were no bids for the Vail Seed Store stock, effects, etc., when offered for sale at Indianapolis January 22, and the receiver says he intends to dispose of them very soon at public auction. The assets are reported to approximate \$5,000, while the liabilities are likely to exceed this sum.

THE HARVEY Seed Company, Buffalo, N. Y., was established by Harvey Brothers in a small store at 65 Ellicott street in 1858. A few years ago L. H. Manly and George B. Edgerton purchased the business and the firm now occupies three large stores, 65-69 Ellicott street, and a large warehouse on Chicago street.

Cold Storage Decision.

For the deterioration of goods while in cold storage the warehouseman is held, in Marks vs. New Orleans Cold Storage Company (La.) 57 L. R. A. 271, to be responsible, notwithstanding a stipulation, in the receipt issued for the goods, to the effect that he will not be responsible for "damage" to the goods.—Chicago Journal.

Government Seeds.

Pursuant to the resolution passed by the directors of the Wholesale Seedsmen's League, December 18, a committee appointed by them met in Washington, January 14, and called on Secretary Wilson, of the Department of Agriculture. In his absence the committee left a type-written statement of its views, which,

while expressing appreciation of the present methods of purchasing seeds for congressional distribution, deprecated the increased demand for free seeds from the government, and its effect not only on the mail order trade but on the retail seed dealers throughout the country. If in line with past efforts it is found impossible to stop the government seed business, the injury done to the seed trade should be so ameliorated as to work the least possible injury. The committee suggested that if the purchase of seed supplies for distribution be made direct from the merchants after the crops are harvested, surpluses found to be on hand at that time could be used and relieve the holders of stocks which might otherwise depress values and demoralize trade. To this Secretary Wilson responded as follows by letter to the president of the league:

I have before me the statement of the seed trade committee signed by you and other gentlemen interested with regard to the seed purchases of this department. I am pleased with the reasonableness of your propositions and will consult with Dr. Galloway with regard to them. I think there will be no difficulty in meeting most of your requirements. There is no disposition on our part to embarrass the seed trade.

With regard to a modification of the law on the subject, it is doubtful, in my opinion, if anything can be done along that line. We obey the law to the best of our ability in such a way as to do us little harm as possible to the seed trade.

New Bedford, Mass.

Since the holidays there has been a great run of funeral work. Flowers still retail almost as high as at Christmas. People expect to pay more on account of the high price of coal and do not do much kicking. The retailers are using great quantities of Paper Whites for funeral work, instead of carnations, which are scarce.

There will probably be some greenhouse building the coming summer. It is rumored that Wm. Pierce will put up a range of houses to supply his store. There will also be a house built for carnations by an amateur florist.

Joseph Pierce has left the employ of his father and has a good situation at the Lakeview Greenhouses, Jamestown, N. Y.
A. B. H.

CHAS. F. MEYER
Bulbs, Plants of Nursery Stock
19 Barclay St. New York

Specialties: Azaleas, Palms, Lily of the Valley, Roman Hyacinths, Paper Whites, Dutch Bulbs, Lilies, etc.

H. P. Rosen Nursery Stock

15 PER CENT

Mme van der Cruyssen and Simon Mardner

Others may promise, but I guarantee you 15 per cent each of the above varieties of the total number of **AZALEAS** you order up to 16-inch plants. The market in Ghent is almost bare of these favorite varieties, and this is an exceptional opportunity. Avail yourself of it while it holds good and order quickly.

I also offer the finest brands of **Lily of the Valley Pips** for early or late forcing, **Roman Hyacinths, Paper Whites, Dutch Bulbs, Lilies, Etc.**, all for fall delivery. Prices cheerfully quoted.

CHAS. F. MEYER, 19 Barclay Street, NEW YORK.
Importer of Bulbs and Plants,
and Sole Representative of the AD. D'HAENE Co., Ltd., GHEENT.

RAFFIA NATURAL COLORED
VAUGHAN'S SEED STORE,
CHICAGO and NEW YORK.

OVER 2,000 ACRES IN CULTIVATION.

Braslan Seed Growers Co.

Growers for the Wholesale Trade Only.

Correspondence solicited.

SAN JOSE, CAL.



View of a field of Sweet Peas on our ranch, crop of 1902.

GLADIOLI...

In order that the Florists of the United States may become familiar with the exceptional high quality of Groff's Hybrid Seedlings (genuine), and as an incentive for them to purchase a trial lot of this stock, I have concluded to submit the following offer:

For \$25.00, CASH WITH ORDER, with mention of this paper, sent to me prior to February 12th, I will send 1000 Groff's Hybrid Seedlings, blooming bulbs, together with your choice of the following, gratis:

500 May Gladioli, 300 Smoky and Slaty Hybrids, 350 Burbank's California Select, 500 Mixed Lemoine.

Under this arrangement, orders sent in the same manner to the following seedsmen will be honored by them and executed here the same as if sent direct to me:

- | | |
|---|---|
| HENRY A. DREER, Inc., Philadelphia, Pa. | HENRY F. MICHELL, Philadelphia, Pa. |
| D. LANDRETH & SONS, Philadelphia, Pa. | JOHNSON & STOKES, Philadelphia, Pa. |
| WM. HENRY MAULE, Philadelphia, Pa. | SCHLEGEL & FOTTLER CO., Boston, Mass. |
| JOS. BRECK & SONS, Corp., Boston, Mass. | W. W. RAWSON & CO., Boston, Mass. |
| STUMPP & WALTER CO., New York, N. Y. | BOBBINK & ATKINS, Rutherford, N. J. |
| CONARD & JONES CO., West Grove, Pa. | WALTER MOTT SEED & BULB CO., Jamestown, N. Y. |
| W. W. BARNARD & CO., Chicago, Ill. | NORTHRUP, KING & CO., Minneapolis, Minn. |

ARTHUR COWEE, MEADOWVALE FARM....
BERLIN, NEW YORK.

DREER'S Reliable FLOWER SEEDS.

Following is a short list of things which should be sown early; all are new crop of the finest possible quality and are ready for immediate delivery, except the Asparagus, which will be ready about the end of this month. Place your order now and delivery will be made as soon as the new seed arrives. For a complete list of Flower Seeds, etc., see our new Wholesale Price List for January.



SALVIA "BONFIRE."

	Trade Pkt.	Oz.		Trade Pkt.	Oz.
AGERATUM, Blue Perfection, dark.....	.15	\$.50	DRACAENA indivisa.....	.10	.30
" Cope's Pet, light.....	.15	.35	GREVILLEA robusta.....	.15	.40
ALYSSUM Little Gem, very dwarf.....	.10	.25	HELIOTROPE, Lemoine's Giant.....	.40	2.00
" Tom Thumb, compact.....	.10	.20	IPOMOEA grandiflora (Moon Flower).....	.15	.50
" Sweet trailing.....	.10	.15	LOBELIA (Crystal Palace Compact).....	.30	1.25
ASPARAGUS plumosus nanus, \$1.00 per 100 seeds; \$7.50 per 1,000 seeds;			PETUNIA, Dreer's Superb Double Fringed the finest strain of double petunia in the whole world; 500 seeds 75c; 1,000 seeds \$1.50		
Sprenger's, 15c per 100 seeds; \$1.25 per 1,000 seeds;			PETUNIA, Dreer's Superb Single Fringed.....	.50	
ASTER Queen of the Market, white, pink, crimson or purple.....	.20	.60	PYRETHRUM aureum (Golden Feather).....	.10	.25
" Queen of the Market, finest mixd.....	.15	.50	SALVIA splendens (Scarlet sage).....	.25	1.00
BEGONIA semp-florans, mixed.....	.25	.50	" Bonfire, dwf. compact.....	.40	2.25
BROWALLIA speciosa major.....	.50		SMILAX..... per pound, \$3.50.....	.10	.30
CENTAUREA candidissima.....	.25	1.50	SOLANUM capsicastrum (Jerusalem cherry).....	.10	.30
" gymnocarpa.....	.15	.35	STOCKS, large flowering 10 week, separate colors.....	.40	2.25
CINERARIA martima.....	.10	.20	STOCKS, large flowering 10 week, finest mixed.....	.30	2.00
COBAEA scandens.....	.10	.30	VERBENA, Dreer's Mammoth, separate colors.....	.30	1.50
CYCLAMEN persicum giganteum in separate colors, 75c per 100 seeds; \$6.00 per 1,000 seeds;			" Dreer's Mammoth, finest mixed.....	.25	1.00
Finest mixed, 60c per 100 seeds; \$5.00 per 1,000 seeds.			VINCA rosea, alba and alba pura.....	.15	.50
DAHLIA, new single, Twentieth Century, 17c per pkt.; 5 pkts., 75c; 12 pkts., \$1.75.			mixed.....	.15	.40

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA, PA.

MOLLER'S DEUTSCHE GARTNER ZEITUNG.

The most widely circulated German gardening journal, treating of all departments of horticulture and floriculture. Numerous eminent correspondents in all parts of the world. An advertising medium of the highest class. Moller's Deutsche Gartner Zeitung is published weekly and richly illustrated. Subscription \$3.00 per annum, including postage. Sample copies free.

LUDWIG MOLLER ERFURT, Germany

GLUCAS & BODDINGTON CO. Importers and Exporters of Seeds, Bulbs & Plants

812-814 Greenwich Street, NEW YORK CITY.

Send for quotations on all Florists' Bulb Stock.

Always mention the.....

American Florist

when you write to an advertiser.

Pansy Plants.

Large-flowering.....	\$2.50 per 1000.	\$.50
CHINESE PRIMROSES.....		1.50
ASP. SPRENGER'S, 2 1/4-inch pots.....		2.00
GERANIUMS, 10 varieties, 2-inch pots.....		2.50
CANNA BULBS, 10 varieties, dry.....		3.00
100 CINERARIAS, 3-inch pots.....		6.00

CASH OR C. O. D.

JOS. H. CUNNINGHAM, Delaware, O.

THE NURSERY TRADE.

AM. ASSOCIATION OF NURSERYMEN.
 CHAS. A. LOENFRITZ, Pres.; D. S. LAKE, Vice-Pres.; GEORGE C. SEAGER, Rochester, N. Y., Sec'y.
 Twenty-eighth annual convention, Detroit, Mich., June, 1903.

DANIEL P. PLUMMER is starting in the nursery business near Bellefontaine, O.

P. S. PETERSON, of Chicago, died of pneumonia January 19. His portrait appears in this issue and a brief sketch of his life on page 945.

ISRAEL KINNEY, of Zanesville, O., now nearly 72 years of age, has retired from the nursery business, in which he has been engaged for very many years.

THE Connecticut Horticultural Society has appointed a committee consisting of G. A. Parker, Theodore Wirth, T. J. McDonald, C. M. Rodgers and L. H. Mead to arrange for an exhibit at the St. Louis World's Fair.

THE Elm City Nursery Company, of New Haven, Conn., has recently leased the Cleveland Smith farm adjoining its nurseries on the south. This will be planted largely to ornamentals to grow on into specimens.

Milwaukee.

STOCK IN STRONG DEMAND AND SHORT SUPPLY.—CLUB MEETING.—GENERAL NEWS.

The meeting of the Florists' Club, held at the St. Charles hotel January 15, was well attended. Among other matters given attention was the appointment of an entertainment committee the members of which are F. H. Holton, N. Zweifel and Chas. Zepnick.

Trade has been unusually good for this time of the year. Stock is scarce and the ruling prices are almost as high as were obtained during the holidays. There is certainly an outlet here for good stock just now.

Miss Margaret Edlefsen was married January 19 and will hereafter reside in Chicago. Miss Rose Zennler will succeed her in the store, Mr. Edlefsen attending to the buying.

Frank P. Dilger has the sympathy of the trade in the loss of his daughter, Ruth, who died last week, aged seven and one-half years.

The M. A. McKenney Company has remodeled the Milwaukee street store, which is now one of the most attractive in the city.

A. Billings, of Cudahy, is sending in some very fine Harrisii lilies.

Holton & Hunkel are receiving some good single violets.

Wm. Schutt has gone on the road for Holton & Hunkel.

Barrie, Ont.

Fourteen inches of snow fell here on January 15, completely covering everything. The houses were dark for three days before the sun came to our aid. The thermometer has again touched 20° below zero, but fortunately we have a good supply of wood, although we have to pay about \$2 a cord more for it than two years ago. Trade has been at a standstill since the holidays, only an occasional wedding or funeral order breaking the monotony. L.

CLIFTON SPRINGS, N. Y.—The greenhouse of Dr. Wm. Turck took fire January 12 and the stock was ruined, loss \$500, insurance \$200.

Hardy Herbaceous Plants.

Japanese Iris, German Iris and Paeonias, Specialties.

Golden Glow, Eulalias, Day Lilies, Hardy Sunflowers, Dragon's Head, Cone Flowers, Boltonias, Sedums and a long list of other valuable kinds in large supply. Please write for lists of varieties and prices; they will probably surprise you.

J. T. Lovett, Little Silver, N.J.

Rhododendron Maximum AND Kalmia Latifolia

The two best native Evergreen Shrubs for out-of-door ornamentation. Furnished by car load lots or in smaller quantities. Send for prices, also Special Rhododendron circulars. Fine lot of general nursery stock.

EASTERN NURSERIES, M. M. Dawson, Mgr. Jamaica Plain, Mass.



Almost half a century of fair dealing has given our products that prominence which merit deserves. We still offer everything of the best for

ORCHARD, VINEYARD, LAWN, PARK, STREET, GARDEN & GREENHOUSE.

Correspondence solicited. Catalogue and Trade List free. 49 years, 44 greenhouses, 1000 acres.

THE STORRS & HARRISON CO., Palmsville, Ohio.

TREES

FOR SPRING OF 1903.

We offer a large and choice line of General Nursery Stock.

Special attention is called to the following:
 APPLE, CHERRY, Peach, Kieffer and Dwarf Pear, DOWNING GOOSEBERRY, Catalpa, Box Elder, Silver and Cut-leaved Maple, Mountain Ash, Carolina Poplar, Tulip Tree, Black Walnut Seedlings, Pecans, Clematis Paniculata, Wistaria, Norway Spruce, Hydrangea P. G., Barberry, Privet, Hybrid Perpetual and Climbing Moss Roses, Apple and Pear Seedlings and Root Grafts.
 For prices address

F. S. PHOENIX, Bloomington, Ill.



Send to **THE MOON Company**

For } Trees, Shrubs, Vines
 Your } and Small Fruits.

Descriptive Illustrated Catalogue Free.
THE WM. H. MOON CO.
 Morrisville, Pa.

CLIMBING SOUPERT.

STRONG, field plants, well branched, for 6 to 8-inch pots, \$15 per 100; for 4 to 5-inch pots, \$10 per 100; 2 1/2-inch plants, \$5 per 100.

BOSTON FERN, 2 1/2-in., \$4 per 100; \$25 per 1000.
The Conard & Jones Co., West Grove, Pa.

Pansy Plants.

MME. PERRET, the finest strain on the market, large plants that will bloom soon, at 50¢ per 100; \$3.50 per 1000; 3,000 for \$10.00.

J. C. SCHMIDT, Bristol, Pa.

**American Florist Advertisements
 Pay Advertisers.**

Fine Grafted ORANGES Bearing Sizes.

12-inch, bushy, from 4-inch pots..... \$20.00
 15-18 inch, bushy, from 4-inch pots..... 30.00

Kin Kans 10-12 in., bushy, from 4-in pots 20.00

Lemons 12-15 in., bushy, from 4-in. pots.. 20.00
 18-24 in., bushy, from 4-in. pots... 30.00

Oranges, Lemons, Limes, Fine Spec-
 plants, well-branched, 3-4 ft \$2 to \$3 each.
 Climbing Clothilde Soupert, strong

Roses field-grown..... 10.00

Clematis Apifolia..... what similar to C. Paeunculata, but blooms earlier and lasts longer; strong plants from 3-inch pots.... 8.00
 (Top Cuttings).

Ficus Elastica 10-12 inch..... 20.00

Kentia Belmoreana 12-15 in., 5 character leaves, 3-in. pots.. 18.00

Phoenix Reclinata and Farinifera

12-15 in., 4 in. pots..... 15.00
 (Not less than 40 of a class at 100 rate.)

Cannas (Dormant Roots), 2-3 eyes to each division, best sorts, \$15.00 per 1000

Citrus Trifoliata (Best defensive hedge plant introduced). Strong, field-grown plants, 15-20 inch..... per 1000, \$8.00
 (Not less than 400 of a class at 1000 rate.)

Latanias, Pandanus, Ornamental Trees and Shrubs in Large Quantities.

WRITE FOR CATALOGUE.....

P. J. BERCKMANS CO. (Inc.) FRUITLAND NURSERIES,

Established 1856. **AUGUSTA, GA.**

Hybrid Carnation SEED MIXED.

Seed from Lawson, Gov. Roosevelt, Wolcott, Violania, Apollo and Golden Beauty, 100 seeds \$1.00. Standards, 100 seeds, 25¢

CALIFORNIA CARNATION CO.,

LOOMIS, CALIFORNIA.

Tree Seeds.

Our new descriptive **CATALOGUE OF SEEDS** of American Conifers, Trees, Shrubs, Palms, Cacti, Herbaceous Plants, etc., has been mailed to the trade. A postal will bring it to you.

PINEHURST NURSERIES, Pinehurst, N. C.
 Otto Katzenstein, Mgr.

OUR PASTIMES.

Announcements of coming contests or other events of interest to our bowling, shooting and sporting readers are solicited and will be given place in this column.

Address all correspondence for this department to Wm. J. Stewart, 79 Milk St., Boston, Mass.; Robt. Kift, 1725 Chestnut St., Philadelphia, Pa.; or to the American Florist Co., 324 Dearborn St., Chicago, Ill.

At Milwaukee.

The local bowlers will soon get down to work in earnest, preparatory to the national contest next August. A series of games has been started between teams representing the growers and retailers and will be continued for some time on the first and third Tuesdays of the month at the Olympic alleys.

A representative team of bowlers is expected from Chicago this evening, January 24, when the brewer's ball takes place.

At Flatbush.

The annual bowling for unseen prizes took place on Thursday night, January 15, at the club alleys and was productive of the customary amount of pleasure and merriment, the only universally regrettable feature being the absence of the club's honored president, Chas. Zeller. The scores, with the prizes which Dame Fortune brought to each in turn are appended:

Table with columns: Name, Score, Prize. Lists bowlers and their respective scores and prizes.

ALLIANCE, O.—L. L. Lamborn and Mrs. Lamborn left January 22 for a month's sojourn in Cuba.

HARTFORD, CONN.—Supt. Theo. Wirth, of the Public Park department, has just returned from Glen Cove, N. Y., whither he went with his family to spend the holidays with Mrs. Wirth's parents. While there Mrs. Wirth and the children were taken seriously ill with pneumonia and later on Mr. Wirth was also stricken down.

NEW PINK CARNATION

"Success\$"

Will pay more per square foot than any other Carnation grown. Outbloomed Mrs. Joost last season by 35 per cent. and is doing still better this year.

A tremendous producer of fine, large, stiff-stemmed, well-formed flowers of the shade of La France rose.

Rooted Cuttings, \$1.50 per dozen; \$2.50 per 25; \$8.00 per 100; \$70.00 per 1000.

FOR SALE BY

JOHN G. SHOLL, BURLINGTON, N. J. DEPT. C. HENRY F. MICHELL, PHILADELPHIA, PA.

ROOTED CUTTINGS and 2-IN. ROSES.

Table listing carnation varieties (METEORS, BRIDES, BRIDESMAIDS, KAISERIN, PERLES, BEAUTIES) and rose varieties (LIBERTY, GOLDEN GATE, LA FRANCE, BELLE SIEBRECHT, IVORY).

Don't forget to try Ivory, it is a money maker.

Write GEO. A. KUHL, Pekin, Ill.

CHICAGO CARNATION CO.,

JOLIET, ILL.

PRICE LIST OF NEW VARIETIES.

ROOTED CUTTINGS.

Table listing carnation varieties (HARLOWARDEN, MARSHALL FIELD, HER MAJESTY, ADONIS, PRESIDENT MCKINLEY, MURPHY'S WHITE, LILLIAN POND, PENELOPE, SIBYL) with prices per 100 and per 1000.

STANDARD VARIETIES.

Table listing standard carnation varieties (MRS. HIGINBOTHAM, MRS. E. A. NELSON, CRESSBROOK, GOV. WOLCOTT, QUEEN LOUISE, LORNA, NORWAY, MRS. POTTER PALMER, ESTELLE, PROSPERITY, CAIETY) with prices per 100 and per 1000.

To Give Satisfaction is Our Aim. Write for the Best Illustrated CARNATION Catalogue Ever Published.

Please mention the American Florist when writing.

Rooted Cuttings.

CARNATIONS.

Table listing carnation varieties (PROSPERITY, GAIETY, ENCHANTRESS, LAWSON, DOROTHY, GUARDIAN ANGEL, ETHEL CROCKER, MRS. JOOST, MARQUIS) categorized by color (Variegated, White, Red) with prices per 100 and per 1000.

ROSES.

Table listing rose varieties (BRIDESMAID, BRIDE, PERLE, GOLDEN GATE, HELEN GOULD, IVORY, OLIVER AMES) with prices per 100 and per 1000.

2-INCH ROSE PLANTS.

Table listing rose plants (BRIDESMAID, BRIDE, PERLE, GOLDEN GATE, METEOR, HELEN GOULD, OLIVER AMES, IVORY) with prices per 100 and per 1000.

All clean, healthy stock and well rooted. Unrooted cuttings at one-half of above prices.

GEO. REINBERG, 51 Wabash Ave., CHICAGO.

Please mention the American Florist when writing.

NEW CARNATIONS

Table listing new carnation varieties (GOV. LOWNDES, MARSHALL FIELD, HARLOWARDEN, ENCHANTRESS, PRESIDENT MCKINLEY, SIBYL) with prices per dozen and per 1000.

Table listing new carnation varieties (ADONIS, HER MAJESTY, LILLIAN POND, INNOCENCE) with prices per dozen, per 100, and per 1000.

Other Leading New and Standard Varieties.

CHRYSANTHEMUMS - We have a large stock of the leading new varieties. Prompt delivery March 1st or earlier. Send for complete list of new and standard varieties now ready.

H. WEBER & SONS, Oakland, Maryland

Springfield, Ill.

TRADE GOOD AND STOCK REALIZING VERY FAIR PRICES.—PLACES SHOW UP WELL FOR SPRING.

Since the first of the year trade has been quite active with the exception of four days when the mercury was hovering about the zero line—the coldest reported was 9° below. A. C. Canfield has been sending some fine carnations to St. Louis, where they have brought excellent prices. His roses are somewhat off crop.

A. C. Brown reports the past holiday trade as an increase over former years; the demand for carnations was noticeably heavy and although he had a big lot of them, many more could have been sold. Cyclamens did not sell so well as last season. There were some good *Harrisii* plants at his store this week.

David Wirth's place is looking well. He expects to have a big stock of spring bedding plants. His Boston ferns and carnations are in good condition.

ANON.

Ironton, O.

W. F. Therkildson & Company say this is the best year in their history, the business all they could handle. At the holidays they had more than they could do, with a fair cut in carnations, which were the popular flower. They have a big cut now on and fine prospects for the rest of the season. They lately added a propagating house 12x60 feet. The coal question does not worry them. The place is heated by natural gas at 10 cents per thousand feet. The whole place of 36,000 feet of glass is heated at an average cost of \$1 per day, except in severe weather, when they have to have heat the entire twenty-four hours, when the bill sometimes runs as high as \$2 or \$2.25 per day. Coal is cheap here also, thousands of tons of soft coal being mined for domestic use, selling at \$2 per ton. The city is a thriving one and the future of the greenhouse industry here seems assured.

NEW CASTLE, PA.—M. R. Morgan, who has for two years been carnation grower for Lewis Ullrich, Tiffin, O., is now with Fischer & Sons.

NEW IBERIA, LA.—The residence of Mrs. Robt. Brown, the only florist here, was destroyed, with all its contents, by fire, on the night of December 12.

Carnation Cuttings

We are now booking orders for rooted cuttings. List of varieties and prices sent on application.

The Cottage Gardens, Queens, L. I.

ALWAYS A WINNER.

Gov. Wolcott Carnation

	Per 100	Per 1000
3000 stock plants in perfect condition	\$5.00	\$45.00
BOSTON MARKET , white.....	5.00	40.00
LAWSON	4.00	30.00

Henry A. Stevens Co., East St., Dedham, Mass.

All The Best CARNATIONS

The Leading Novelties of 1903.
The Best Varieties of 1902.
All the Standard Varieties.
Ord your Rooted Cuttings NOW.
GEO. HANCOCK & SON,
GRAND HAVEN, MICH.

FRANZ DEEGEN

The New Golden Yellow ROSE.

AWARDED \$50.00 and Gold Medal, Kansas City.

AWARDED Silver Medal, Mass. Hort. Society.

AWARDED Silver Medal, Penna. Hort. Society.

AWARDED Silver Medal, Chicago Hort. Society.

AWARDED Silver Medal, American Institute, N. Y.

AWARDED Silver Medal, S. F. A., Indianapolis.

FOR SALE BY

E. G. ASMUS, West Hoboken, N. J.
THE E. G. HILL CO., Richmond, Ind.
SOUTH PARK FLORAL CO., New Castle, Ind.

FOR PRICES AND DESCRIPTIONS APPLY TO ABOVE.

LILLIAN POND A Large and Fancy White.

Unlike most fancies it is free and continuous. Starts in to bloom early, sending out large flowers on long stems. It is a strictly fancy flower at all times and commands top notch prices. Order at once and you will not regret it. PRICES—12, \$1.50; 25, \$3.00; 50, \$5.00; 100, \$10.00; 250, \$23.00; 500, \$37.50; 1000, \$75.00. Orders booked now for February delivery. **S. J. REUTER, WESTERLY, R. I.**

The Best White Carnation to Date The Queen

Reaches highest standard in size, form, calyx, stem, productiveness and keeping quality. A sure winner where ever shown. Price per 100, \$10.00; 250, \$22.50; 500, \$37.50; 1000, \$75.00.

Little South Floral Co., So. Natick, Mass. S. J. Goddard, Framingham, Mass.

Miss Louise CARNATIONS

Faber The Longest Stemmed and Most Fragrant Carnation in Existence

Stems measure from 3 feet 6 inches to 4 feet. Flowers are of a beautiful pink shade, similar to a well colored Bridesmaid rose and average 3 to 3½ INCHES Continuous bloomer when once started and calyx never bursts Will be distributed the coming spring. Prices—\$2 per 12; \$10 per 100; \$75 per 1000; \$500 per 10,000. Orders booked for FEBRUARY delivery from now on.

FICK & FABER, SAN MATEO, CAL.

Rooted Cuttings

	Per 100	Per 1000
CRESSBROOK.....	\$5.00	\$40.00
CHALLENGER.....	5.00	40.00
FAIR MAID.....	6.00	50.00

500 at 1000 rates.

Other varieties, prices on application.

C. Warburton, FALL RIVER, MASS.

THE FARQUHAR ROSE

A MAGNIFICENT FORCING PLANT FOR EASTER

Awarded the Silver Gilt Medal of the Massachusetts Horticultural Society.

Certificated by the Horticultural Society of New York.

In this new Rose we have at last a worthy companion to the Crimson Rambler, bearing beautiful clusters of pink double flowers.

THE FARQUHAR ROSE is a vigorous and rapid grower. Many of the stock plants, cut down for propagation last July, and then not a year old, have since developed shoots 20 to 22 feet in length.

THE FARQUHAR ROSE has glossy, bright green foliage, which does not drop, and retains its lustre until cut down by severe frost in November or December, a feature which makes it most valuable for covering trellises, pillars, summer houses, fences and rocks. It is perfectly hardy and does not require protection during winter.

THE FARQUHAR ROSE bears magnificent clusters of bright pink double flowers on long stems, which are most serviceable for vases and table decorations, while the individual flowers are useful for bouquets and designs. As an Easter plant, its color alone gives it a decided advantage over the Crimson Rambler.

Mr. Jackson Dawson, of the Arnold Arboretum, who raised the FARQUHAR ROSE, describes it as follows:

"It can be best described as flowering perfectly double in clusters, the individual flowers being similar in size and color to the flowers of Caranation Melba. The plant is of rapid growth, stocky, trailing habit, with bright glossy foliage. All who have seen it pronounce it something extra. In commenting upon it Mr. W. R. Smith, of the United States Botanic Garden, Washington, D. C., says that it is a rose for the millions. Prof. B. M. Watson, of the Bussy Institution, and many private gardeners, have declared it a great success."

TESTIMONIALS AND PRESS COMMENTS:

Mr. W. R. SMITH, Curator United States Botanic Garden, Washington, D. C., writes:

"I saw your new Rose, 'The Farquhar,' when it first bloomed with its raiser, Mr. Jackson Dawson, of the Arnold Arboretum, and was so pleased with it that I at once pronounced it a rose for the people."

DORCHESTER, MASS., May 10, 1902.

GENTLEMEN—I have made a specialty of forcing Roses for the Boston Market for many years, especially Crimson Rambler, which I have considered the finest novelty of recent years.

Your new Rose, "The Farquhar," is a better thing than the Crimson Rambler. Its foliage and its beautiful rose-pink color are unequalled in any climbing rose. I consider it the finest floral novelty in existence.

Yours very truly,

LAWRENCE CUTLER.

MILTON, MASS., May 10, 1902.

GENTLEMEN—"The Farquhar Rose" is a fitting companion to the Crimson Rambler. So many worthless roses have been sent out with the name Rambler that this name has fallen into discredit. Your Rose is a true hardy climber, bearing large trusses of beautiful deep pink double flowers, with a fragrance different from any other rose I know.

Yours very truly,

GEORGE M. ANDERSON.

THE AMERICAN FLORIST Vol. XVIII, No. 728, says: "At the exhibition in Horticultural Hall, on Saturday, May 10, R. & J. Farquhar & Company showed plants in bloom of the new Farquhar Rose, and received therefor a silver gilt medal. This Rose, which was raised by Jackson Dawson, is the result of a cross between Rosa Wichuriana and Crimson Rambler. It is of similar habit to the latter, but the deep pink flowers are larger and it has a slight fragrance."

THE FLORISTS' EXCHANGE, Vol. XIV, No. 23, says: "This Rambler is the largest yet, being quite two inches in diameter, very double, and of the liveliest bright pink imaginable; borne in large clusters and with the individual flowers on longer stems than those of Crimson Rambler, so that they could be used in design work. It will make a magnificent Easter plant, and its vigor, hardiness, etc., make it a sure winner for outside."

AMERICAN GARDENING, Vol. XXIII, No. 387, says: "The attraction of the show (Massachusetts Horticultural Society, Boston, May 10, 1902), however, was the new Farquhar Rose. This is a new pink Rambler, raised by Jackson Dawson of the Arnold Arboretum, from whom the whole stock was purchased by Messrs. Farquhar. The color of the flowers is brilliant rose, the clusters are similar to those of Crimson Rambler, the florets, however, being larger and more double. There is a slight fragrance. The award of a silver gilt medal was thoroughly deserved and measured by the position it is bound to occupy in the near future, might even have been higher."

Strong Plants from 3½-Inch Pots, per 100, \$50.00. Delivery will commence April 1, and orders will be filled in rotation as received. 25 or 50 Plants at 100 rate.

R. & J. FARQUHAR & CO.,

6 and 7 South Market St.

BOSTON, MASS.

Dreer's Summer Flowering Bulbs



DREER'S
DOUBLE
BEGONIAS

TUBEROUS ROOTED BEGONIAS.—Single Flowered.

White, Crimson, Scarlet, Pink, White and Yellow, 40c per doz.; \$3 per 100; \$25 per 1000. Choicest singles in mixture, 35c per doz.; \$2.50 per 100; \$22.00 per 1000.

TUBEROUS ROOTED BEGONIAS.—Double Flowering.

Scarlet, Rose, White and Yellow, 65c per doz.; \$5 per 100; \$40 per 1000. Choicest doubles in mixture, 50c per doz.; \$4 per 100; \$35 per 1000.

NEW FRILLED TUBEROUS BEGONIAS.

A grand new variety fringed like a single Petunia, choicest mixture, 25c each, \$2.50 per doz.; \$20 per 100.

BEDDING TUBEROUS BEGONIA, DUKE ZEPPELIN.

This is the intensely bright scarlet, small double flowered that attracted so much attention at the Pan-American Exhibition. Fine strong bulbs, 20c each, \$2 per doz.; \$15 per 100.

GLOXINIA GRASSIFOLIA GRANDIFLORA.

A choice selected strain, strong, well matured bulbs, Red, White and Blue in separate colors or in choicest mixture, 50c per doz.; \$4 per 100, \$35 per 1000.

FANCY LEAVED CALADIUMS.

A choice collection of 25 varieties, \$1.25 per doz.; \$10 per 100. Choice Mixed Varieties, \$1 per doz.; \$8 per 100.

TIGRIDIAS.

Conchiflora, Grandiflora Alba, Pavonia Grandiflora, 30c per doz.; \$2 per 100, \$15 per 1000.

MONTBRETIAS.

Six choice varieties, 25c per doz.; \$1.75 per 100; \$12.50 per 1000.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.



AZALEAS.

All the best sorts, such as Bernard Andrea Alba, Deutsche Perle, Vervaeana, Simon Mardner, Mme. Van der Cruyssen, Virginiana, Empress of India, and many others.

PRICE IN ASSORTED LOTS, FOR EARLY ORDERS:

10 to 12-inch crowns, bushy plants.....	\$40.00 per 100
12 to 14-inch crowns, bushy plants.....	50.00 per 100
14 to 16-inch crowns, bushy plants.....	60.00 per 100
16 to 18-inch crowns, bushy plants.....	\$12.00 per doz.
18 to 20-inch crowns, bushy plants.....	25.00 per doz.
20 to 22-inch crowns, bushy plants.....	30.00 per doz.
22 to 24-inch crowns, bushy plants.....	36.00 per doz.

We can include in assorted lots, 20 per cent Mme. Van der Cruyssen.

BOSTON FERNS.

Extra choice lot of compact, bushy, pot-grown plants.

2½-inch pots.....	\$5.00 per 100	5-inch pans.....	\$40.00 per 100
3-inch pots.....	10.00 per 100	6-inch pans.....	9.00 per doz.
4-inch pots.....	25.00 per 100	7-inch pans.....	12.00 per doz.

VAUGHAN'S SEED STORE, 14 Barclay Street, NEW YORK.
84-86 Randolph Street, CHICAGO.
GREENHOUSES, WESTERN SPRINGS, ILL.

Tiger,

Orange, Striped Pink. A beautiful flower. We have grown it for five years; (6 blooms for \$1.50; \$10.00 per 100; \$75.00 per 1000.)

ENCHANTRESS, ready now, 12 for \$3.00; \$12.00 per 100

LAWSON, ready now, \$3.00 per 100.

Every cutting guaranteed.

HENRY EICHHOLZ, Waynesboro, Pa.

ROOTED CUTTINGS.

All the Standard Varieties of

ROSES AND GARNATIONS

Boston Ferns in all Sizes.

GEO. M. KELLOGG, PLEASANT HILL, MISSOURI.

Please mention the American Florist when writing.

Rooted Rose Cuttings.

Beauties, \$3.00 per 100; Brides, Maids, Meteors, Golden Gates, \$1.50 per 100; Perles, \$2.00; Ivory, \$2.50. Write for price on large quantities.

FINE BOSTON FERNS. 2½-in. \$1; 4-in. \$1.5; 5-in. \$2.5; 6-in. \$4; 7-in. \$6.0. Elegant for immediate sales or for growing on **STOCK 'MUMS.** White, Fitzwygram, Queen, Robinson, Ivory, Jones' Chadwick, yellow, Bonnaffon, Wedding, Appleton. All at \$5 per 100. Well supplied with cuttings.

W. H. CULLETT & SONS, Lincoln, Ill.

Rooted Cuttings ROSES AND CARNATIONS.

Our Cuttings are all selected for strength and health. There is no finer stock grown. The roses are all from grafted stock, except the Perles and Meteors.

ROSES.

KAISERINS.....	per 100 \$2.50	BRIDESMAIDS.....	per 100 \$1.50
PERLES.....	" 2.50	METEORS.....	" 1.50
BRIDES.....	" 1.50	GOLDEN GATES.....	" 1.50

CARNATIONS. Pink.

White.			
WHITE CLOUD.....	per 100 \$ 1.50	LAWSON.....	per 100 \$ 2.00
FLORA HILL.....	" 1.50	MARQUIS.....	" 1.50
GOV. WOLCOTT.....	" 5.00	MORNING GLORY.....	" 2.00
NORWAY.....	" 2.00	CRESSBROOK.....	" 4.00
LILLIAN POND.....	" 10.00	FLORIANA.....	" 4.00
WHITE BRADT.....	" 12.00	ENCHANTRESS.....	" 12.00
		Striped.	
		GAIETY.....	" 4.00
		PROSPERITY.....	" 3.00
		Maroon.	
Red.		MACEO.....	" 1.50
CRANE.....	" 2.00	ROOSEVELT.....	" 2.00
AMERICA.....	" 1.50		
ADONIS.....	" 14.00		

No order for less than 50 of one variety filled at these prices. We will have a very fine stock of grafted Brides and Bridesmaids ready April 1st at \$10.00 per 100. All cuttings and plants shipped from Hinsdale.

BASSETT & WASHBURN, Store: 76 Wabash Ave., Chicago
Greenhouses: HINSDALE, ILL.



Trade Mark Registered.

RIBBONS

Ask your Supply House for

THE CONQUEROR BRAND.

**SHADE, QUALITY, LUSTRE AND PRICE
RIGHT!**

THE STANDARD RIBBON FOR THE FLORAL TRADE.

IF YOUR DEALER DOES NOT CARRY OUR GOODS,
KINDLY SEND US HIS NAME.

LION & WERTHEIMER

IMPORTERS AND MANUFACTURERS

TEL. 4968 SPRING.

463-467 Broadway, New York

SPECIAL PRE-INVENTORY JANUARY SALE of all Florists' Supplies **Now On!**

Send for Special List of Seasonable Goods.

THIS IS A RARE CHANCE TO STOCK UP.

McKellar & Winterson, 45, 47, 49 Wabash Avenue, **Chicago.**

PRELIMINARY LIST OF

New Chrysanthemums

and other **NOVELTIES**

NOW READY.

Will be pleased to mail to those interested.

Nathan Smith & Son
ADRIAN, MICH.

Please mention the American Florist when writing.

First Lot of R. C. COLEUS.

Verschaffeltii, Golden Bedder, Yellow Queen and mixed. Don't forget our Boston Fern, all sizes, pot grown : : :

GEO. A. KUHL, PEKIN, ILL.

YELLOW EATON

GOOD JUDGES pronounce it the most valuable commercial Chrysanthemum to be introduced in the spring of 1903. Its color captivates everybody and it has all the other good qualities of Timothy Eaton, without the coarseness sometimes attributed to that variety. \$5.00 per doz.; \$30 per 100. Delivery of young stock, March 1, 1903.

ROBERT CRAIG & SON, Market and 49th Streets,
PHILADELPHIA, PA.

Providence, R. I.

COLD WEATHER CUTS DOWN SUPPLIES.—VIOLETS ARE CHEAP.—NOTES.

The week of January 12 furnished fine, clear days, with a corresponding improvement in flower-quality. The week of January 19 started in with zero weather. The rose market has shown a tendency to a shortage temporarily, with a slight increase in prices. Carnations are increasing in numbers but find a ready sale at regular rates. Violets have met with their first comedown and now sell at 50 cents to 75 cents per hundred whole-dale. Bullous stock is plentiful. Smilax is scarce at 15 cents per string. Maidenhair and asparagus are in active demand with small supply. Hardy ferns and galax leaves are the main greens at present.

About the only news worthy of note is W. B. Hazard's removal to the east side of Mathewson street. This is a wise move. The former location had windows that were too unwieldy for general decoration and were too expensive to keep properly filled with fresh cut flowers from day to day. M. M.

Irvington, N. Y.

The Lord & Burnham Company is making extensive additions to its plant here. The additional buildings will comprise a large woodworking mill equipped for the preparation of cypress wood capping, bars, and so forth, for their iron construction greenhouses, also for the manufacture of cypress greenhouse material for the "all sash bar" construction, the demand having outgrown the capacity of the present mill; a power house on their new dock for the installation of new steam boilers and engine; also additions to the foundry and shops for making Burnham boilers. The enlargements referred to, taken in connection with the present works, including the extensive iron working shop built three years since, will nearly double the firm's present facilities.

SPRINGFIELD, MASS.—The Amateur Horticultural Society has elected C. L. Simons president and Charles L. Burr secretary.

GONZALEZ, TEX.—J. G. Bowyer, proprietor of the Gonzalez Greenhouses, will shortly put in seventy acres of fruit at Conrad Siding, about seven miles from town.

IMPATIENS ... THE QUEEN

Fine 2-in. Pot Plants, \$1.25 per doz; \$8 per 100

ASPARAGUS SPRENGERI

From 5-in. Pots, Strong, \$1.50 per doz. \$10 per 100.

BEGONIA REX

12 vars., 2-in., 60c per doz.; \$4 per 100.

ROOTED CUTTINGS Send for List... **...FINE STOCK**

CENTRAL MICHIGAN NURSERY,
Kalamazoo, Mich.

Large Dormant **POINSETTIAS** Ready to Ship
Field Grown February 1st.

Will produce 5 to 8 Blossoms the Coming Season.

\$25.00 Per Hundred.

Whittlesey Floral Garden,

707 Boyle Ave., LOS ANGELES, CAL.



BOSTON FERNS 5-in. pots, \$3.00 per doz.
6-in. pots, 5.00 per doz.
6-in. strong 6.00 per doz.
7-in. pots, 7.20 per doz.

ASPARAGUS PLUMOSUS NANUS,
4-in. pots, fine plants, \$1.50 per doz.
4-in. pots, extra select, \$2.00 per doz.

FERN BALLS furnished with leaves, \$5.00 per doz.
FERNS FOR DISHES
2-in. pots, good varieties, assorted, \$3.00 per 100.

WRITE FOR LIST.

The GEO. WITTBOLD CO.
1657 Buckingham Place, Chicago.

B. & A. SPECIALTIES
AZALEAS We have 10,000 from which to select your stock. Place orders at once.

RHODODENDRONS for forcing. Finest stock ever imported. Write for prices.

BOBBINK & ATKINS, Rutherford, N. J.

500,000 VERBENAS THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 60c per 100; \$5 per 1000; \$45 per 10,000. NO RUST OR MILDEW.

PACKED LIGHT, AND SATISFACTION GUARANTEED. SEND FOR CIRCULAR.
We are the Largest Growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, BLOOMSBURG, PA.

A FEW GOOD THINGS YOU WANT.

- ARECA LUTESCENS,** 3 plants in a pot, 3, 4, 5, 6-inch, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
- KENTIA** Belmoreana and Forsteriana, extra clean and well grown plants, 2 1/2, 3, 4 and 5-in., \$8, \$15, \$30, \$50, \$75, \$100 to \$125 per 100.
- REX BEGONIA,** 2 and 3-inch, \$4 and \$6 per 100.
- ASPARAGUS Plumosus,** 3-inch, \$2. Sprengerl, 3-inch, \$5, per 100.
- DRACAENA INDIVISA,** 4, 5-in., \$10, \$25 per 100.
- ENGLISH IVY,** 2 and 3-inch, \$3 and \$6 per 100.
- VINCA VAR.,** 2-in., \$2.00; 3-in., \$4.00 per 100.
- GERANIUMS,** single Gen. Grant, double Gen. Grant, S. A. Nutt, La Favorite, Bonnot, Poitevine, Riccard, Francis Perkins, 2-inch, \$2.50 per 100.
- COLEUS,** Rooted Cuttings, 75 cents per 100.
- ACERATUM,** blue and white, 75 cents per 100.
- CARNATIONS,** Rooted Cuttings, Wm. Scott, Portia, Prosperity, Mrs. Lawson, Queen Louise, White Cloud, Ethel Crocker, F. Inc. \$1 per 100.
- GLADIOLUS** bulbs, good mixture, 50c per 100.

GEO. M. EMMANS, NEWTON, N. J.

GERANIUMS

Rooted Cuttings

For Delivery Feb. 15th to March 15th.

	100	1000
HETERANTHE, BUCHNER AND S. A. NUTT.....	\$1.25	\$10.00
CASTELLANE, VIAUD, PERKINS, POITEVINE, LANDRY, RICCARD ...	1.50	15.00
ACTEON, LA FAVORITE BONNOT, LA PILOT, CASTRIS AND JAULIN..	1.50, Not enough for 1000 sales	

ALBERT M. HERR,
LANCASTER, PA.

SPECIALTIES

ROSES, from 3-inch pots. **In Best**
CARNATIONS, for all delivery, **Varieties**
CHRYSANTHEMUMS,
SMILAX, VIOLETS.

Prices Low. Send for List.

WOOD BROTHERS, Fishkill, N. Y.



BURBANK'S
Shasta Daisy.

Mailing size plants, \$5.00 per 100; \$40.00 per 1000. 25 at 100 rates, 250 at 1000 rates. Prepaid at above figures. Trade list now ready for 1903.

CALIFORNIA CARNATION CO.
LOOMIS, CAL.. U. S. A.

Rooted Cuttings.

- COLEUS,** 48 var., 70c per 100; \$6.00 per 1000
- GERANIUMS,** from 2 1/2-in. pots, \$2.50 per 100; \$22 per 1000. Good bedding sorts.
- PETUNIAS,** 20 var., \$1.25 per 100; \$10 per 1000
- ALYSSUM,** large, var., single and dbl. \$1 per 100
- HELIOTROPE,** 14 var., \$1.00 per 100; \$8 per 1000
- AGERATUMS,** 5 var., 60c per 100; \$5.00 per 1000
- SALVIAS,** 6 var., \$1.00 per 100; \$8.00 per 1000
- PELARGONIUMS,** rooted cuttings, \$1.25 per 100
- VERBENAS,** R. C., 60c per 100; \$5.00 per 1000

Express prepaid on R. C. Cash with order. Write **S. D. BRANT,** Clay Center, Kas.

FLORISTS' Refrigerators

Embodying all of the special patented features that have made our household models the Standard of Excellence in refrigerator construction. Exteriors of

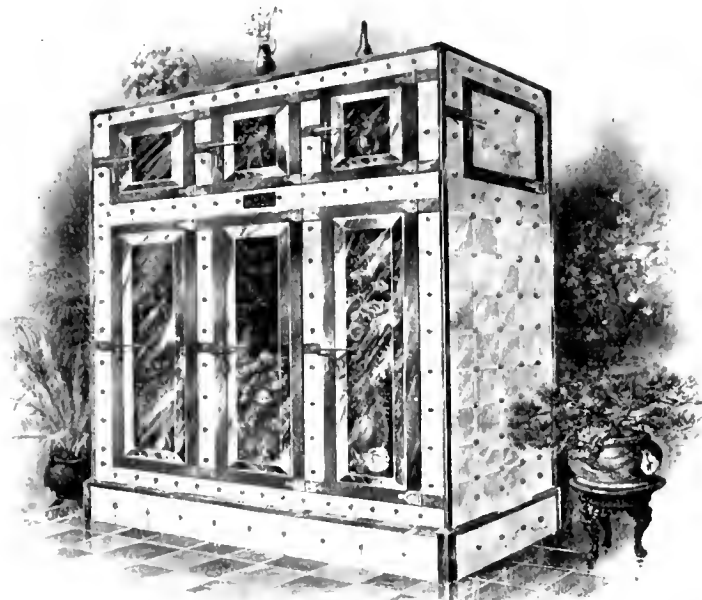
Solid Oak, Porcelain, Plate Glass.
INTERIOR LININGS OF
Cypress, or One-half-inch Plate Glass,
or White Glazed Tile.

They combine beauty with utility and are guaranteed to be entirely worthy and satisfactory in every particular.

Special inducements on present orders for Spring delivery.

WRITE TO-DAY FOR CATALOGUE 10.

THE WILKE MFG. CO., ANDERSON, IND.



ASPARAGUS

50,000 PLUMOSUS NANUS, extra strong, 2½-inch, \$3.50 per 100.
SPRENGERI, strong, 2½-inch, \$2.50 per 100.

BOSTON FERNS.

From bench fit for 3, 4, 5, 6, 7 and 8-in., 2½c, 5c, 15c, 20c, 30c, 40c.

CYCAS REVOLUTA

Extra fine, 4 to 7-inch pots, only 12c per leaf.

25 FINE RUBBER PLANTS, 3 feet, \$1 each, or the lot for \$20.00. CASH PLEASE.

A. J. BALDWIN, NEWARK, OHIO.

ASPARAGUS SPRENGERI.

SEEDLINGS—From flats, ready to pot, \$1.00 per 100; \$7.5 per 1000.

FIELD-CROWN—Extra strong. These plants are making new top and root growths. If potted now, will be fine for Easter. Plants large enough for 4 and 5-inch pots or pans, \$3.00 and \$5.00 per 100, respectively.

ADIANTUM CAPILLUS VENERIS—The best for fern dishes, bushy 2½-in. pot plants, \$3 per 100.

CHINESE PRIMROSES—Select strain, **Reading Scarlet**, best of its color; **Light Rose Pink**, no trace of magenta. Large plants from 3-in. pots, in bud and bl.-om., \$4.00 per 100.

CINERARIA STELLATA—Good for pot display or cutting. Extra strong, from 3-inch pots, \$4.00 per 100.

NATHAN SMITH & SON, Adrian, Mich.

Geranium and Bedding Plants.

Strong, healthy young plants in all standard varieties, and 30 new and rare varieties from 3 and 2-inch pots and rooted cuttings. Call or write for estimates on what you want. Prices and quality right.

LUDWIG MOSBAEK,
Wholesale Florist.

85th Street, Near South Chicago Ave., Chicago.

GERANIUMS JEAN VIAUD.

I have a fine stock of this fine pink bedding variety, 2½ inch pots, \$2.50 per 100; strong 3-inch pots \$5.00 per 100; or will exchange for A. Riccard or M. Castellani.

W. W. COLES, Kokomo, Ind.

GERANIUMS

WELL ROOTED CUTTINGS

Of S. A. NUTT, \$1.10 per 100; \$10.00 per 1000. Express prepaid for 15 cents per 100; \$1.00 per 1000

2½-inch S. A. NUTT, Best Double Red, and La Favorite, Best Double White, \$2.00 per 100; \$18.00 per 1000; express not prepaid.

PANSIES MASTERPIECE, splendid new strain curled and frilled, transplanted plants, 60 cents per 100; \$5 per 1000.

Roemer's Superb Giant Prize Pansies. Seed bought from Roemer, Germany; best that money can buy; transplanted, 50 cents per 100; \$4.00 per 1000. Express prepaid on Pansies.

CASH WITH ORDER.

Des Moines Plant Co.,
513 38th Street, Des Moines, Iowa.

Orchids!

We have the largest and finest stock of Orchids on this continent; also supplies, such as best live Sphagnum and Fibrous Peat and Orchid Baskets.

Lager & Hurrell, SUMMIT, N. J.
Orchid Growers and Importers.

ARAUCARIA EXCELSA.

SPECIMENS ONLY LEFT, at the following prices: 6-inch pots, 25, 27, 29, 30 to 35 inches high, 4, 5, 6 tiers, \$1.00, \$1.25, \$1.50, \$1.75 to \$2.00 each.

KENTIA FORSTERIANA, 25 to 36 inches high, 6-in. pots, 75c to \$1.00 each. Cash with order please.

Wholesale Grower and
Godfrey Aschmann, Importer of Pot Plants,
1012 Ontario Street, PHILADELPHIA, PA.

JOSEPH HEACOCK,

WYNCOTE, PA.

GROWER
 ...of...
ARECA LUTESCENS,
KENTIA BELMOREANA,
COCOS WEDDELIANA.

Cinerarias

from Benary's, Cannell's and Sutton's prize show flowers saved, giant flowered, finest colors and shades, dwarf or semi-dwarf, makes fine selling plants for Easter; 2½ in. \$2.50 per 100. Cash. Shellroad Greenhouses, Grange P. O., Balto., Md.

VERBENA KING.

HEADQUARTERS

for VERBENAS.



As we grow more than anybody, (the world beater), 45 of the best select **Mammolt named** vars., 60c per 100, \$5.00 per 1000; 50c for \$23.00; 10,000 for \$40.00.

Heliotropes, ten best named vars., \$1.00 per 100, \$8.00 per 1000.

Doisies, 4 of the winning varieties, named, \$1.00 per 100, \$8.00 per 1000.

Colours, 30 of the most popular named varieties, and they are good ones, 70c per 100, \$6.00 per 1000.

Petunia, (Kansas) Double White; this is a grand bloomer and a very strong grower; a good one, \$1.25 per 100, \$10.00 per 1000.

Aggeralums, the only 4 varieties: Stella Gurney, Princess Pauline, Copes Pet, and Lady Isabel, the grand white one, 60c per 100, \$5.00 per 1000.

Salvias, 4 of the best select named varieties; they are winners, \$1.00 per 100, \$8.00 per 1000.

EXPRESS PREPAID.

Satisfaction and safe arrival guaranteed in every respect.

THAT CASH OR C. O. D., PLEASE.

List ready Jan. 1st.

C. HUMFELD.

The Rooted Cutting Specialist.. CLAY CENTER, KAN.

Geraniums.

Double Grant Alphonse Riccard, Bruanti, Beaute Poitevine, Gloire de France, S. A. Nutt, La Favorite, Jean Viaud, etc., extra well grown stock from 2½-inch pots, \$2.50 per 100; \$22 50 per 1000.

CANNAS.—Standard varieties, dormant roots, \$2.00 per 100; \$18.00 per 1000.

Satisfaction Guaranteed.

PAUL MADER, East Stroudsburg, Pa.

Cyclamens, Red, Pink, White, White with Eye, and Daybreak, extra fine color, flowers very fragrant, no better strain growing, \$2.00 per 100; \$17.50 per 1000 from flats

Cinerarias, 4-inch for Easter, some in bud now, \$10.00 per 100.

Primroses, 4-inch, just beginning to bloom, \$8.00 per 100.

Asp. Sprengeri, large plants from bed suitable for baskets, 5 inch pots, \$8.00 per 100

Sprengeri Seed, new crop, 4c per 100, \$3.00 1000

C. WINTERICH, Defiance, Ohio.

San Francisco.

TRADE TAKES A DOWNWARD TREND.—PRICES OFF ONE-THIRD.—STOCK ACCUMULATES.—CLUB MEETS.—NOTES.

Business has taken quite a turn since the holidays, for stock has been accumulating in the stores to such an extent as to force prices down into a more normal channel. Violets were the first to feel it and were sold at retail on the streets for 75 cents per dozen bunches three days after Christmas, but by looking closely one could find that the heavy frosts had taken color and odor out of them, but now even the best sell at that figure. Prices on all other stock, excepting valley, have been reduced one-third.

The "high jinks" held by the Pacific Coast Horticultural Society January 3, were a success, the hall being hardly large enough to hold the crowd. Besides three-fourths of all the members, the Gardeners' Club of Oakland showed up with about fifteen present and all enjoyed it heartily. The entertainments were of the best.

"Bob" Forest, who was employed at the Shanahan Floral Company, was killed last week by falling from a bannister, fracturing his skull.

Edw. Schwerin has invested in a very fine talking machine, which produced some fine fun for the boys at their last meeting.

C. H. Baker is doing a lot of duck shooting and promises to ruin the market in butcher supplies.

Chas. F. Fick is feeling very happy since the stork brought a fine little baby boy. GOLDEN GATE.

BATAVIA, ILL.—Wm. Clark is preparing to rebuild his greenhouses, recently destroyed by fire.

BRIDGEPORT, CONN.—John Reck says the holiday business was a nice increase but that there was plenty of stock and prices were lower than usual. There was a good call for scarlet carnations, Jacqueminot and Bon Silene roses. Valley could not be sold.

WHEN IN NEED OF

Florists' Supplies

SEND TO

M. RICE & CO. Leading Florists' Supply House.
IMPORTERS AND MANUFACTURERS,
"RIBBONS" 9 S Filbert Street, PHILADELPHIA, PA.

WESTERN FLORISTS...

can save money in buying

SUPPLIES

FROM

BARTELDES & CO.,
1521 15th Street, DENVER, COLO.

Sigmund Geller
Importer and Manufacturer of
FLORISTS' SUPPLIES

Looking for Fall Novelties?
LOTS OF THEM ON EXHIBITION.
108 W. 28th Street, New York.

A. HERRMANN,

Cape Flowers, all colors,
Cycas Leaves, Metal Designs,
and All Florists' Supplies.

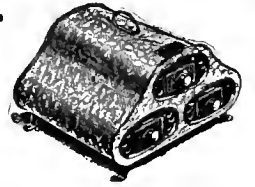
Send for Prices.

404-412 East 34th St. NEW YORK.

Florists! INSURE YOUR PLANTS IN WINTER at but a trifling cost.

GET A LEHMAN WAGON HEATER.

Over 175,000 in use by Florists, etc. The cost of heating is only TWO CENTS for TWELVE HOURS CONTINUOUS HEAT. Send for descriptive circular to



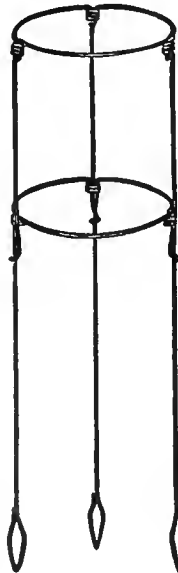
LEHMAN BROS.,
MANUFACTURERS,
10 Bond St., NEW YORK.

JAS. W. ERRINGER,
General Western Sales Agent,
297 Wabash Ave., CHICAGO.

NOTICE.

THE MODEL PLANT STAKE COMPANY, formerly of Brooklyn, N. Y., has removed to 208 Jersey St., Harrison, New Jersey, and is now The Parker-Bruen Mfg. Co.

The Model Extension Carnation Support.



Flushing, Long Island, Dec. 11th, 1901.
MR. THERON N. PARKER, Brooklyn, N. Y.
Dear Sir— I have used your Wire Carnation Support the last two years, in all about 12,000. They fill the bill in every particular. Nothing could be more satisfactory and would give me a great deal of pleasure if I can bespeak a good word for you to the trade and you are at liberty to refer to me at any time. Very truly,
A. L. THORNE.
La Fayette, Ind., July 8th, 1902.

MR. THERON N. PARKER, Harrison, N. J.
Dear Sir:— After using your Model Carnation Support in two of our houses the past winter, we have come to the conclusion that it is perfectly adapted to supporting carnations, and shall use them on all our plants the coming season. We were much pleased with the simplicity, strength and neat appearance of the support
Yours truly
F. DORNER & SONS Co.

Write for Circular and Price List.
CALVANIZED STEEL ROSE STAKES.
The Parker-Bruen Mfg. Co. Inc.
208 Jersey St., Harrison, N. J.

TIN FOIL

Plain, Fancy, Printed & Mounted.

Manufactured by

The Conley Foil Co.

521 to 541 West 25th St.,
NEW YORK.



Invalid Appliance Co.,
MANUFACTURERS OF
COLUMBIA PLANT TUBS
(PATENTED)
"The kind that never fall apart."
If your seedman doesn't handle them, order of us direct.
FACTORY AND OFFICE:
150-160 WEDDER ST., CHICAGO.
TELEPHONE NORTH 853.

BAYERSDORFER & CO.'S SURE SELLERS.

FANCY Baskets, the cream of foreign and domestic art; fine Cycas goods, Sheaves, Cape Flowers, Immortelles, Water-proof Pot Covers, Letters and Mottoes, Jardinieres, Doves, Dyed Moss, etc.

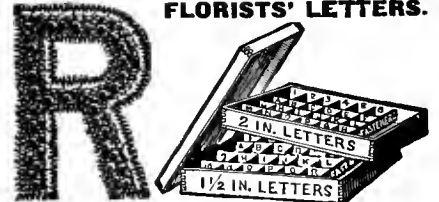
The Best in the Market Always and they sell all the year round. Begin the New Year by sending for our latest catalogue. Profusely Illustrated. Just Issued.

H. Bayersdorfer & Co.

50-56 North Fourth St.,
PHILADELPHIA, PA.

Boston Florist Letter Co.

MANUFACTURERS OF FLORISTS' LETTERS.

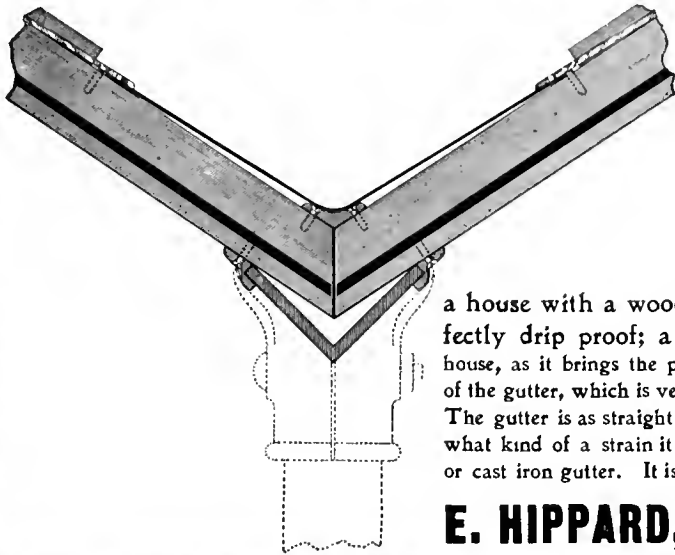


This wooden box nicely stained and varnished, 18x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2-inch size, per 100, \$2.00.
Script Letters \$4. Fastener with each letter or word.

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.
N. F. McCARTHY, Treas. and Manager,
84 Hawley St., BOSTON, MASS.

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Have You Seen It? The New Duplex Gutter OF 1903.

Examine it fully, and you will never build a house with a wooden or cast iron gutter. It is warranted perfectly drip proof; a bench under it is the best place in the whole house, as it brings the plants closer to the light and has more light. The shade of the gutter, which is very little, is from 3 to 4 feet on the north side of the gutter. The gutter is as straight as a string when set and never breaks at joints, no matter what kind of a strain it may have. Do not confound this gutter with any wood or cast iron gutter. It is self adjusting to any size of glass. Write for Catalogue.

E. HIPPARD, Manufacturer of the Standard Ventilating Machine and the Standard Steam Trap, Youngstown, Ohio

TO KILL ALL Greenhouse Bugs USE "NICOTICIDE"

Clean and harmless
as Fumigant or Spray.
Ask your seedsman
for it or write to

**The Tobacco Warehousing
and Trading Co.,**

1000 Magnolia Ave., Louisville, Ky.

CUT FLOWER BOXES

WATERPROOF. Corner Lock Style.
The best, strongest and neatest folding cut flower box ever made. Cheap, durable, handy. To try them once is to use them always.

DON'T USE OLD STORE BOXES.

If you have any doubt, send for samples, which speak for themselves.

Size No. 1.	3x4 1/2 x 16	\$1.75 per 100; \$15.00 per 1000
" No. 2.	3x6x18	2.00 " 18.00 "
" No. 3.	4x6x18	2.40 " 22.00 "
" No. 4.	3x6x20	2.75 " 25.00 "
" No. 5.	4x8x22	3.00 " 28.00 "
" No. 6.	4x8x28	3.75 " 35.00 "

THE LIVINGSTON SEED CO.

Box 103, COLUMBUS, O.



**EVANS' IMPROVED
CHALLENGE
VENTILATING
APPARATUS**

WRITE FOR ILLUSTRATED CATALOGUE
QUAKER CITY MACHINE WORKS.
RICHMOND, IND.

PLEASE mention the AMERICAN FLORIST every time you write to an advertiser.

Miniature Baby Greenhouse



FOR GROWING SMALL PLANTS.

Two Sizes. } No. 1. 11 1/4 x 12 1/4 and 11 inches high.
} No. 2. 15 x 16 1/4 and 15 1/4 inches high.
Are folded up in compact package of about one cubic foot; weight about 18 pounds.

SMALL OR NO. 1 SIZE.	LARGE OR NO. 2 SIZE.
1 house.....\$ 4.50	1 house.....\$ 6.50
2 houses..... 8.50	2 houses..... 12.50
4 houses..... 16.50	4 houses..... 24.00
6 houses..... 24.00	6 houses..... 34.50

SIEBRECHT & SON, NEW ROCHELLE, N. Y.

Please mention the American Florist when writing.

KIFT'S PATENT ADJUSTABLE VASE HOLDER

No. 1.—Brass, nickel, 4 feet long, 6 clasps to each rod. Price complete (with green or white tumblers) \$2.25. Price complete (with green or white cornucopia vases) \$2.50. No. 2.—Heavy 4 ft. rod, brass and nickeled, with three clasps for 5 to 6-inch pots, each \$1.75.

KIFT'S PATENT Rubber Capped FLOWER TUBES, 1 1/2 inch diameter, per 100, \$3.50.

JOSEPH KIFT & SON, 1725 Chestnut St., Phila., Pa.

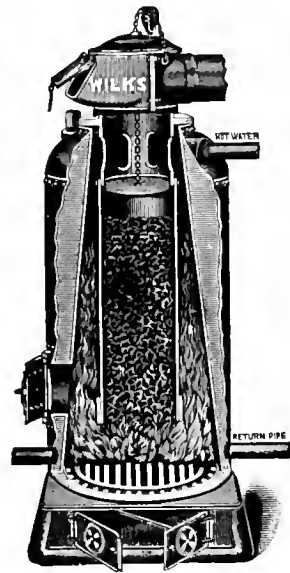
Please mention the American Florist when writing.

Fumigating Kind Tobacco

Powder KILLS ALL APHIS IN ONE NIGHT in a house 100-25 ft., at a cost of 10c. A 5 lb. trial pkg. will cost nothing if you will pay the express charges on it. Our booklet tells of it. Write Dept. C for it.
The H. A. STOOHOFF COMPANY
116, 117, 118 West St., N. Y. City

THE Regan Printing House
NURSERY SEED FLORISTS' CATALOGUES

87-91 Plymouth Place,
CHICAGO



WILKS HOT WATER HEATERS.

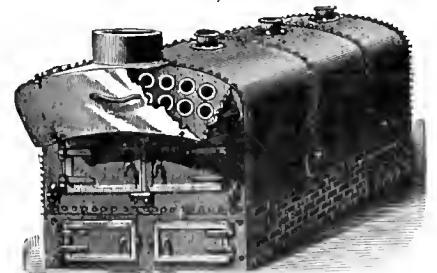
Best made for Greenhouses. SELF-FEEDING. All Steel. Simple, strong, durable. Send for Catalogue.

S. Wilks Manfg. Co., 53 to 55 S. Clinton St., CHICAGO.

KROESCHELL BROS. CO.
IMPROVED

Greenhouse Boiler,

45 Erie St., CHICAGO.



Boilers made of the best of material, shell, firebox sheets and heads of steel, water space all around (front, sides and back). Write for information. Please mention the American Florist when writing.

American Florists
Ads

Always do business,
Week days and every day
Sundays and holidays,
All over the country,
At home and abroad.

Minneapolis.

TRADE ON THE IMPROVE AND STOCK SHORT OF THE DEMAND.—WHITE MATERIAL SCARCE.

Business has shown a gradual increase the past week and is back at its normal state. Stock in all varieties is in no way plentiful. Tea roses of all grades do not meet demands, and especially so the white. Prices range from \$6 to \$10 per hundred. The quality is somewhat improved, as the weather conditions have been more satisfactory. In Beauties we are glad to receive orders partially filled. Carnations, which have become one of the most popular flowers, are being taken now in place of roses, especially such fancy varieties as Lawson, Bradt, Enchantress, Crane, Marquis, and so forth, and some fancy prices are secured at retail. Violets are becoming more plentiful. Romans and narcissi are received in quantities for funeral work. R. Wessling has had a very busy week of funeral orders.

Thos. Lynes, of the East Side Floral Store, reports good trade last week. He has a very neat and attractive store, which he finds is receiving good patronage.

A department store here had a sale of 2,000 carnations at 35 cents per dozen Saturday, which caused many expressions of surprise among the retailers.

Rice Brothers are adding a stock of ribbons to their supply list.

R. W. Beatty, of Wahpeton, N. D., was a caller last week. C. F. R.

DILLON'S GREENHOUSE MFG. CO. Bloomsburg, Penna.
 MANUFACTURERS OF HOT BED SASH, AIR DRIED GULF CYPRESS SASH BARS AND OTHER GREENHOUSE MATERIAL.
BUILDERS of DURABLE and PRACTICAL Greenhouses at a LOW COST.
 Our descriptive circular contains valuable information for every florist. Send for it.

Standard Flower Pots

The WHILLDIN POTTERY COMPANY,
 PHILADELPHIA, PA. JERSEY CITY, N. J. LONG ISLAND CITY, N. Y.
 Travelling Representative, U. CUTLER RYERSON, 108 Third Ave., Newark, N. J.



STANDARD FLOWER POTS!

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2-in., in crate, \$4.88		120 7-in., in crate, \$4.20	
1500 2½ " " 5.25		60 8 " " 3.00	
1500 2¾ " " 6.00		HAND MADE.	
1000 3 " " 5.00		48 9-in., in crate, \$3.60	
800 3½ " " 5.80		48 10 " " 4.80	
500 4 " " 4.50		24 11 " " 3.60	
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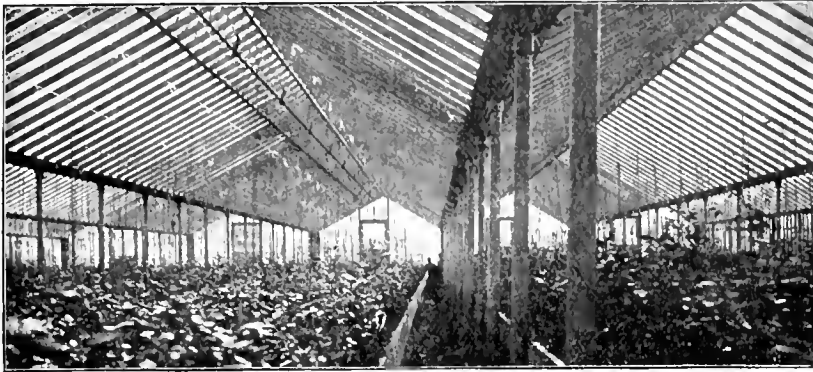
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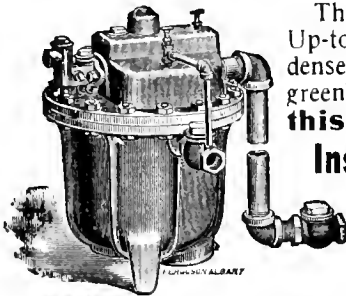
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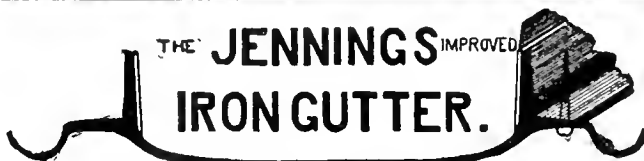
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