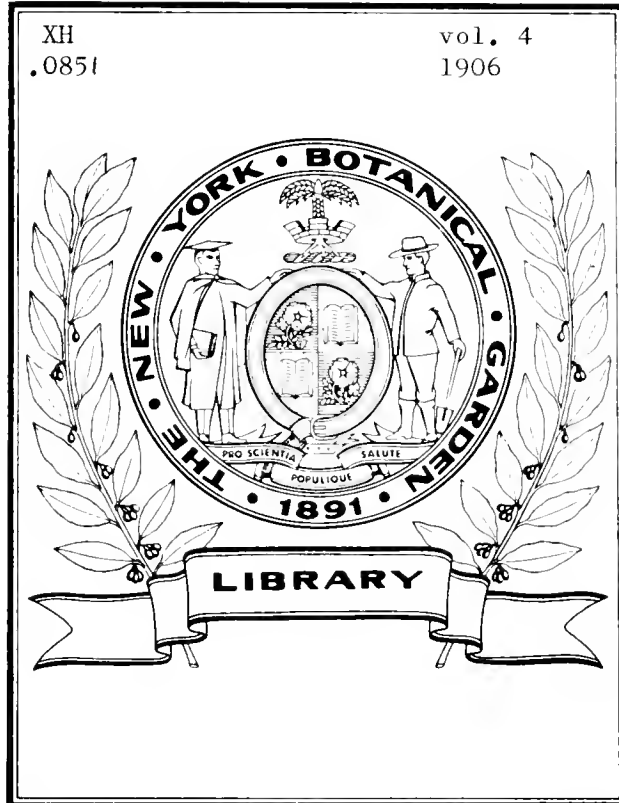


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HORTICULTURE

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COLORED PLATES ISSUED WITH VOLUME IV.

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THE INDEX WHICH APPEARS ON THESE PAGES HAS A VALUE BEYOND ITS ORDINARY PURPOSE AS A GUIDE TO THE CONTENTS OF VOLUME 4. IT IS, WE THINK, A STRONG PRESENTATION OF THE VALUE WHICH HORTICULTURE IS RETURNING TO ITS SUBSCRIBERS. CONSIDER THAT THE ABOVE LIST OF SUBJECTS COVERS ONLY SIX MONTHS—HALF A YEAR—COSTING THE SUBSCRIBERS FIFTY CENTS! CAN YOU DO BETTER THAN TELL YOUR FRIENDS ABOUT IT?

HORTICULTURE

Vol. IV.

JULY 7, 1906

No. 1



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LANDSCAPE GARDENER
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HORTICULTURE

VOL IV

JULY 7, 1906

NO. 1

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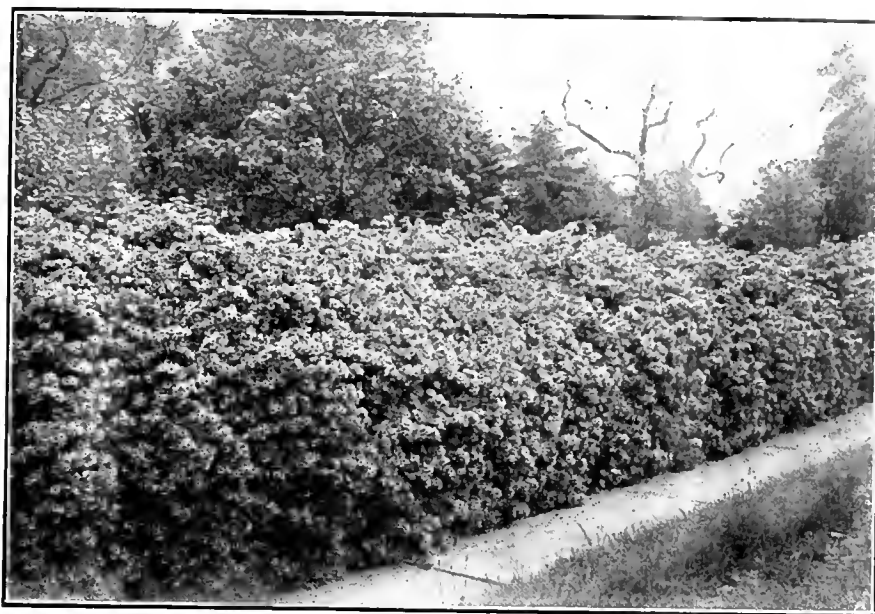
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Canna Pennsylvania, Kate Gray, Allemania, Duke of Marlboro and twenty others, 4 in. \$6.00 per 100.

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In writing to Advertisers kindly mention Horticulture

Azalea amoena



This charming hardy azalea is now becoming deservedly popular. It is one of the prettiest of all the hardy shrubs, being an evergreen, and during the month of May literally covered with its bright flower.

The accompanying illustration is of a hedge of this plant which, when in flower, is worth going a long distance to see.

This subject is of rather a slow growth and too

expensive to advocate as a general hedge plant, but there are often many places where something out of the common is wanted as a hedge and *Azalea amoena* fills the bill to perfection.

W. H. Waite

Bernardsville, N. J.

Rhododendrons at Wellesley

(See Frontispiece)

Rhododendrons have flowered well this season. We do not think we can add any new ones to previous lists of hardy varieties. Our experience of last season holds with regard to the advantage of proximity to water—even though the water be frozen in winter. Our bed near the lake was again the best, and it will be extended in the near future. A southern exposure is the worst. Shelter from north winds does not help, in fact, the reverse is true—a northerly exposure is best with shelter from the winter's sun, well carried to the westward.

Amongst tender varieties *Lady Grey Egerton*, a splendid bluish tinted variety, was superb. *Mrs. Thorold*, a lavender and yellow; *Countess of Normanton*, white with dark spot; *E. S. Rand*, cherry red; *Marshall Brooks*, similar; *Ralph Sanders*, red with dark spot; *Mrs. F. D. Godman*, similar but later; *James MacIntosh*, deep red, dark spot; *Mrs. J. P. Lade*, greyish white, dark spot; *Lady Rolle*, white with brown spot; *F. L. Olmsted*, pink; *Gloriosa*, tinted white; *Mrs. H. S. Hunnewell*, white; *Catawbiense album*, white. The above is a list of very finely colored varieties, with considerable arboreum blood, none of which can be called ironclad. They are so valuable, however, in affording color variety, that wherever a favorable situation can be found they should be tried.

Rhododendrons at the Arboretum were unusually well-flowered and thrifty looking this season, on the occasion of my visit three weeks ago, and I noted the following among other better known varieties: *Mr. Charles Thorold*, very deep color; *Marion*, warm rose; *Mrs. Harry Ingersol*, blue, white centre; *Maxwell T. Masters*, red; *Coriaceum*, white; *Norma*, deep pink; *Gen. Grant*, red; *Mrs. C. S. Sargent*, warm rose; *Henrietta Sargent*, similar color; *Purpureum Elegans*, *Grandiflorum* and *Crispum*; *Album Elegans*; *Album grandiflorum*; *Delicatissimum*; *Charles Dickens*; *James McIntosh*; *Roseum* in variety; *Atrosanguineum*, and *Mrs. F. D. Godman*.

From the Larz Anderson place, *Mr. Finlayson* sends me this list, which have been in fine bloom: *Charles Dickens*, *Old Port*, *Sigismund Rucker*, *Lady Grey Egerton*, *Princess Mary of Cambridge*, *Mdme. Carvalho*, *Album Elegans*, *Kettledrum*, *Alex. Dancer*, *King of the Purples*, *Parson's Gloriosa*, *Lady Armstrong*, *Purpureum Grandiflorum*, *Charles Bagley*, *Caractacus*, *Hannibal*, and *President Lincoln*.

J. D. Hatfield

British Horticulture

A BEGONIA SPECIALIST

In recent years a young and enterprising begonia exhibitor has come to the front in the person of Mr. A. Ll. Gwillim. During the three years he has been competing he has carried off fourteen medals at the leading shows. From July to October the nurseries are gay with thousands of begonias in a multiplicity of shades. Mr. Gwillim has this season about 80,000 seedlings. In the nursery there are also about 50,000 of the bedding varieties. These are laid out in the stages to start at the end of February and early in March. This year spent hops have been used instead of leaf mould with the loam and sprinkling of sand. The hops are of course cheaper and have been found to answer admirably. As regards the colors most in favor, Mr. Gwillim states that he sells more of the scarlet, white, yellow, pink and crimson than all the rest put together. For exhibition blooms as soon as the buds appear a stimulant in the shape of liquid manure is administered, with a proportion of guano. Sootwater is also found beneficial. Mr. Gwillim is also turning his attention to gloxinias. Of cinerarias, chiefly the stellata section are likewise cultivated. These are very much in demand for the conservatory or table decoration, partly owing to the immense heads of flowers, as well as for the long time they continue in bloom.

SHOW OF FLORAL DECORATIONS

The Royal Horticultural Society had a show of table decorations, vases, bouquets, etc., on June 20th, at the Royal Horticultural Hall, Westminster. Visitors who expected to glean some new ideas in the best table displays were doomed to disappointment, for the designs were all on conventional lines. There was a monotonous run of tables using the familiar metal flower displayer in the centre, with corner pieces, and trails of smilax and asparagus. One table was arranged with pink centaurea, and young tips of golden holly branches, with a little adiantum fern. A pleasing combination was obtained with a pale pink pelargonium, lily of the valley, a few sprays of briza, with trailing asparagus. There were some interesting floral designs. One attracting considerable attention represented a cross, with an anchor on one side, and heart on the other. The cross was formed of white stock, with bands of myosotis running across the base, sprays of cymbidium hanging over from the top. The anchor was outlined with Marechal Niel roses and Erica Cavendishi. A large bell was also a special feature. The outside was composed of white hydrangea, lined with white pinks, pink sweet peas representing the tongue and ropes. Amongst the bouquets was one consisting of ixias, a small yellow oncidium, and orange and yellow aquilegias, on a base of common asparagus and trailing A. Sprengeri.

BLOOM BY THE TON

The county of Lincolnshire, famous for its many acres of potatoes, in modern times has come to the front as a noted bulb growing area. The season for harvesting the bloom recently completed has been a very successful one. Several tons of bloom a day are despatched

from Spalding during the busiest time. In one week a grower has marketed two million blooms of double white narcissi. A record lot of tulips has been handled this year. At one time there was a break between the spring and summer flowers, but this has now been filled by the cultivation of large quantities of pyrethrums. As these popular little flowers are very prolific and grow in a small space they are a remunerative crop. The work of lifting the bulbs was commenced last week, and these are supplied in great bulk, some even being sent to Holland. Chrysanthemums have been planted out which will flower in August and September. It is estimated that the value of the spring flowers sent away from the neighborhood of Spalding this year is \$50,000.

THE REIGN OF THE RHODODENDRON

A special feature at the Royal Botanic Society's gardens at Regent's Park, during June, is the brilliant display of rhododendrons, covering about three-quarters of an acre, shown by Messrs. John Waterer & Sons of the American Nurseries, Bagshot. The flowers are artistically arranged under an immense marquee, and the general effect is enhanced by the groups being on undulating ground. Here are to be seen the best specimens of this showy flowering shrub which are raised to perfection under the ideal conditions which prevail at Bagshot. The newer varieties brought out by the firm include White Pearl, a fit companion to the graceful Pink Pearl; Mrs. E. C. Stirling, a delightful shade of soft pink; Marchioness of Tweeddale, rich rosy red with a blotch of pale yellow on the upper part of the interior. The two last named have received awards of merit from the Royal Horticultural Society, in addition to Germer Waterer. The whole display which is worthy the firm's high reputation, is varied by groups of *Kalmia latifolia*.

W. H. Adsett,

Phoenix Robeleni

When the first plants of this beautiful palm were introduced a report was circulated that it was doubtful if ever seed could be obtained owing to the birds devouring it in its native country, and that we would have to rely upon the stems from time to time for future stock.

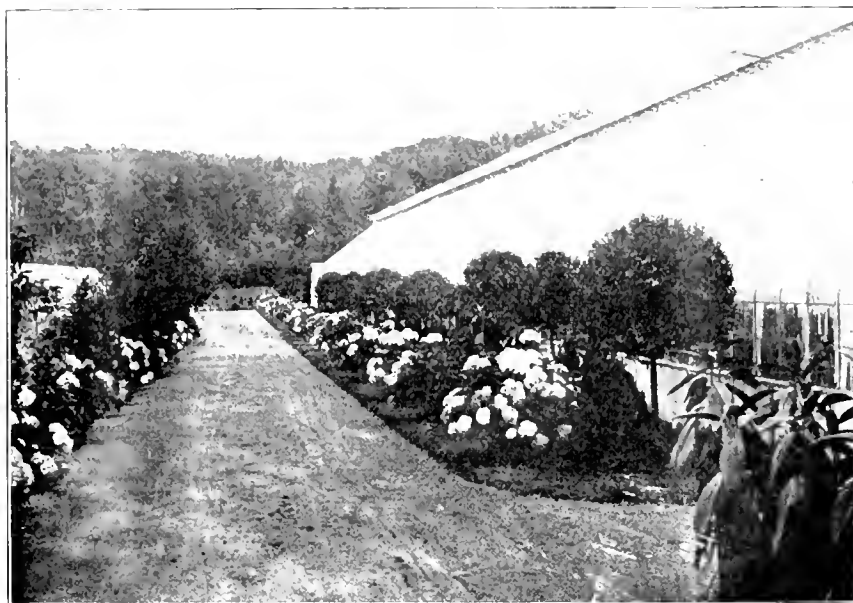
A few years ago through the agency of the original discoverer, Mr. Robelen, in whose honor the plant is named, a quantity of the seed was collected and sent to Europe and we hear that another very large importation is shortly expected from him.

The Belgium growers have recognized its usefulness as a decorative plant, and they are now growing it by the thousands, and devoting whole houses to its culture; its graceful habit, freedom of growth, and resemblance to *Cocos Weddelliana* by its narrow pinnae, will place this among the commercial palms, whereas hitherto it has been seen in private collections only.

One of the original specimens imported is in the collection of Mr. D. W. Willis James, of Madison, New Jersey, and has been successfully grown, and exhibited at the prominent New York, and other shows by his superintendent Mr. Wm. Duckham.

A. S. Bennett

View at the Scarborough Nurseries of F. R. Pierson Company



The accompanying illustration serves two good purposes—one to show the care and good taste with which this well-managed establishment is planted and which affords a pertinent example that many other nursery-men might follow with benefit to themselves—and the

other to illustrate the graceful lines of the Pierson U-Bar style of greenhouse which has proved so good an investment, that, after several years' experience with it Mr. Pierson has selected this construction in preference to any other for the extensive addition to be made to the range this season.

Oncidium sphacelatum

At the present time *Oncidium sphacelatum* is making a splendid show and monopolizing much of the space in the flowering house. It is a species easily grown and seldom fails to produce its long, graceful, many flowered spikes, which make it a very attractive and highly ornamental subject when in flower. The spike is usually three to four feet long and sometimes carries seventy-five to one hundred flowers. The sepals and petals are rich brown barred with yellow; lip yellow with red band in front of the crest.

It is a native of Mexico and Central America. In its native habitat it is subjected to long spells of dry weather, as a result of which it has formed the habit of sending out large quantities of aerial roots, which during a spell of damp or wet weather, can absorb enormous quantities of moisture from the atmosphere as well as by actual contact with water. These air roots have an outer layer of air cells the functions of which are to absorb moisture when moisture is present, and also in a dry atmosphere to prevent excessive evaporation

from the soft tissues of the root. Experiments have shown that plants brought direct from the woods in a dry condition will, when placed in a damp atmosphere, absorb large quantities of moisture, so much as to increase their weight eight per cent. When grown in a moist, warm greenhouse the plant continues to make air roots but these are more fleshy and are not so thickly coated with air cells as newly imported plants. An ordinary warm, or intermediate house with plenty of moisture will suit them very well. They enjoy plenty of light, and as they depend largely on the aerial roots for water should be placed in as small pots as possible.

Cockroaches are very fond of the young roots; if many of these are near, the plants should be isolated by placing them on inverted pots in saucers of water.

James Hutchison

This is the first number of Vol. IV. Show it to your friends and ask them to subscribe now. HORTICULTURE will give them full value.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
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INTERESTS

HORTICULTURE PUBLISHING CO.

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Telephone Oxford 292

WM. J. STEWART, Editor and Manager.

Looking
ahead

With this issue HORTICULTURE starts on its fourth volume. It has now been before the profession sufficiently long to indicate the scope and character on which we propose to build—thus far we have been laying the foundations only—and we shall be glad to receive suggestions and advice from our friends as to what, in their opinion, we can do to increase its value to the great horticultural industries of our land.

At a
standstill

A perusal of our British notes will disclose the fact that the florists over the water are equally lacking with many of our own in the art of artistic floral arrangement. The description given of their efforts at decorative designing has a very familiar sound. Unfortunately the work of the best floral artists is seldom seen at the public exhibitions here and doubtless the same conditions prevail abroad. How shall we wake them up?

Peony
nomenclature

That peony names are almost hopelessly mixed is evident from what President Ward had to say in his address before the American Peony Society. Definite identification of many varieties can be reached only after many years of close and patient investigation and in other cases accurate determination is almost out of possibility. Whatever Mr. Ward and his associates may be able to accomplish in the direction of nomenclature revision will be a great boon to the peony lover and especially to the nurseryman. The task will be an arduous one for which the gratitude of the profession will be but small recompense.

Midsummer
madness

According to the story of the Newark Call, there is a man—Smith by name—who has a formula for growing black roses. It consists in cutting off the limb of a black oak tree and covering the stump with soil in which a slip from a rose bush is planted, with the

result that a black rose with black stems and leaves is produced. The eminent gentleman refuses to part with any of his productions at any price. A "special cable despatch" from Paris to the Boston American seems to indicate that this country cannot claim ownership of all the great wizards, for it informs us that at a recent dinner given in Paris by Mrs. Ogden Goelet, the table was decorated with a pale blue carnation, "a new flower obtained by crossing the cultivated blue cornflower and a white carnation." These achievements certainly open up to the imagination a long vista of startling possibilities. "Masters, spread yourselves."

"For a desperate
disease a
desperate cure"

A woman in Sayville, L. I., New York, has discovered that the black flies that feast on dead fish are also fond of rose-bugs, and as the latter have swarmed on the island this summer the trees, grape vines and bushes in the vicinity of Sayville have been decorated with dead fish suspended from the branches to attract these enemies of the rose-bug. What the success of this novel remedy for the hitherto invincible pest has been we do not know but it is presumable that most people will consider the cure as bad as the rose-bug. From all accounts this pest has been more abundant and destructive this season than ever before, devouring not only the flowers but the leaves of the roses and of many other garden plants, shrubs and trees. He has been observed feeding voraciously on foliage that had been well-sprayed with arsenate of lead for the gypsy moth and there is no evidence that it gave him any discomfort.

A word to
Horticulture's
friends

The New York Herald's assertion that "who reads a newspaper is vastly more important to the advertiser in its columns than how many read it," is unqualifiedly true. It is equally true that there exists in every field a class of readers who, by a policy subservient to their tastes, may be secured as a following but whose value to the advertiser of anything outside of the cheapest bargain offerings is very small. The many outspoken testimonials which HORTICULTURE has been receiving from satisfied advertisers of substantial goods are very gratifying to us as showing that our course in securing for our columns material that will interest reflective, intellectual readers has resulted as hoped. The index to the contents of our issues for the past six months, which accompanies this issue shows most forcibly the vast amount and wide variety of permanently valuable reading matter which we have gathered together and placed before our subscribers at a cost of less than two cents per issue. That this stature has been reached in an existence of eighteen months, in the face of the keenest high-pressure rivalry is the best guarantee of future efficiency that we can offer. As we have said before, HORTICULTURE'S growth will be limited only by the volume of loyal support its readers may accord to it. Make it a rule to give your business exclusively to those whose advertisements are to be found in its columns. It is now the dulllest period of the year. Plan that with the opening of the busy season your buying and your selling shall be done through HORTICULTURE. Your interests and ours are mutual.

PLANT NOTES AT MEDFORD,
MASS.

I spent a very pleasant afternoon recently with my old friend Mr. Keith, gardener to Gen. Lawrence, Medford, Mass. What struck us most on entering the place was the immense specimens of *Hydrangea Otaksa*. It is a wonderful piece of work to keep such large plants in good trim for many years. The tubs are so large that it takes eight men to lift some of them. They are six feet through and eight feet high. Considerable skill is shown training them so as to evenly cover the plants with bloom, making them into perfect globes.

We were also much pleased with some combination baskets for piazza work. In some a fuchsia occupies the centre, with Kenilworth ivy (*Linaria cymbalaria*) hanging from the outside—a beautiful drapery. Others, a fuchsia and German ivy (*Mikania scandens*). The fuchsias used were Monarch and Trailing Queen—not exactly trailing but drooping. The old fashioned *Clerodendron Balfourianum* was exceedingly well flowered, and it is a unique and most beautiful plant for decorative purposes.

It is surprising to see the ease with which poinsettias root here. They are taken soft, with a heel, and put in a closed frame without heat, and hardly one misses. *Euphorbia splendens* is here in large quantities. They root quite freely in boxes near the glass in a close house. They are then hardened off, and put 10 or 12 in a six-inch pot, and grown in an old hotbed frame for the summer. Thus they are kept dwarf and make very pretty plants for fall decoration. A hybrid *calceolaria* raised here promises to be a good thing. The object was to get a large-flowered form of the old-fashioned shrubby yellow; a great many seedlings were raised, and one appears to be just what was desired. The old-fashioned *Kalosanthus coccinea* is here grown to large specimens. There is a trick in this. It requires two years to get a good plant. Cuttings are put into a pan quite thickly, and grown for one year without blooming; next season, after a natural rest, it is pushed along, and fed well. The specimen we saw was nearly four feet in diameter and covered with its deep red flowers. It is unfortunate nothing is exhibited from here. If shown in Horticultural Hall it would be a revelation, and a novelty to a great many people.

Some *dipladenia* seedlings show how much these beautiful climbers vary. Some were a charming pink, others yellow with a white throat. They are grown in light material, with plenty of feed during the growing season. In winter they are rested at about 15 Fah. and given plenty of sunshine in summer.

We found the winter storage house a model for its work. Light, and heated enough to keep out frost, with a traveling hoist for loading.

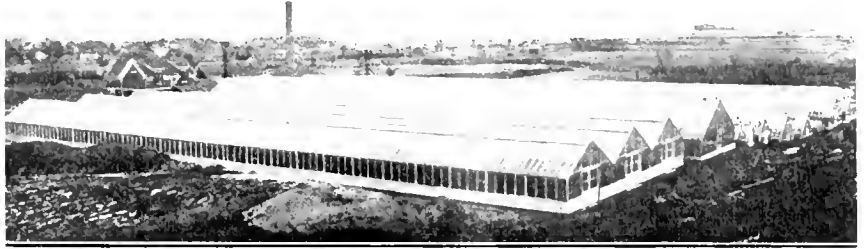
Mr. Keith has an able and indispensable assistant in his foreman, Mr. Stewart.

T. D. HATFIELD.

A MISPLACED LINE.

In Mr. N. B. White's communication, page 793, issue of June 23, the line at the top of the third column should have appeared at the foot.

A VISIT TO WM. SIM'S GREENHOUSES AT CLIFTONDALE, MASS.



On June 30, a party of members of the Gardeners' and Florists' Club of Boston with ladies, visited the greenhouses of Wm. Sim at Cliftondale, Mass. This place is already widely known for the high character of its product, especially the sweet peas and violets which have created a sensation wherever shown. The visitors found the houses filled mostly with tomatoes,—melons and cucumbers occupying a small part—and the same cultural skill which has placed Mr. Sim on the pinnacle of renown with his sweet peas equally in evidence with the tomato crop. The variety grown is Comet. There are 25,000 plants in the houses and 25,000 in frames and field. All of the latter are already carrying fruit of good size the calculation being to finish the crop before the farmers' produce is ready. From the greenhouse stock Mr. Sim picked on one day 136 bushels of No. 1 fruit and the entire indoor crop is estimated at 13 tons. The plants, indoor and outdoor are all grown on a uniform plan, a single stem trained to a stake, and the outside plants are stopped at a height of about three feet which gives about five tiers of fruit.

The Princess violets which Mr. Sim is advertising in HORTICULTURE are the finest plants the writer has ever seen offered, 200,000 are being planted out in the field for his own use. These will be housed as soon as the tomato and cucumber crops are over. Mr. Sim finds the single violet, when well-grown, far ahead of the double in popularity. Its keeping quality is certainly far superior. Our especial reason for calling particular attention to this—one of the best-kept and most progressive commercial establishments in America—is to emphasize the fact that no part of Mr. Sim's glass is ever permitted to spend an idle day. As soon as each house of sweet peas or violets was emptied, the tomatoes and melons were all ready to take immediate possession. Frames which had held violets all winter were immediately planted with tomatoes which will bring a fancy price during the weeks that are devoid of any income in many establishments. No wonder Mr. Sim can build ranges of 30x300 houses ad libitum. The visitors were treated to a generous collation and all had a most instructive and enjoyable time.



NEWS OF THE CLUBS AND SOCIETIES.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The first of the summer exhibitions of the Massachusetts Horticultural Society will be held at Horticultural Hall, Saturday, July 7, from 12 to 4 o'clock. The schedule for this date includes hardy roses, irises, larkspurs, pentstemons, and hardy herbaceous flowers, as well as the fruits and vegetables of the season.

Other summer exhibitions occur on July 21 and August 4 and 18.

An interesting feature of the exhibition next Saturday will be the display of the products of children's gardens, the first ever held under the auspices of the society. Five prizes are offered for the best collections of flowers and vegetables grown in school gardens and five for those of individual home gardens. The result of this addition to the activities of the society is looked forward to with much interest. In this connection, and as showing the possibilities in this line of horticultural work, it may be said that the Committee on Children's Gardens, of which Henry Saxton Adams is the chairman, has received this season entries from 26 public school gardens and 250 home gardens in competition for the prizes offered by the society.

Of the entries for home gardens sixty per cent. are from boys between 9 and 15 years of age. A new generation of young people is thus being attracted to horticultural pursuits with pleasure to themselves and benefit to the community.

DAYTON, OHIO.

All plans for the coming convention are nearly completed. It remains but for the Executive Committee to finish the official program and all arrangements will have been made for the banner convention in the history of the Society of American Florists and Ornamental Horticulturists to be entered upon at the shortest notice.

The surprises will be many. The wonderful illumination of Far Hills will be worth a trip across the continent alone. The great exhibit promises to be the largest we have ever had. The housing of guests is well looked after. The amusements will be many and out of the ordinary. The prices for all accommodations will be very reasonable and everything will be of the best. All points of interest in the middle West are easily reached from fair Dayton at reasonable rates.

It is quite a compliment to be entertained by the great National Military Home, a thing which befalls but a very few societies in a decennium.

The entertainment offered by the National Cash Register Co. will surpass anything ever seen by any visitor. Of this we are confident. The work on the exhibition and meeting grounds is progressing finely and visitors will find everything necessary to modern civilization, as near as money can make it. All we have to say is, "Come, and you will never

regret it. You will see much and you will learn much."

All hotels are within one square of all street cars, taking you to the exhibition grounds within ten minutes. We give here a list and prices of the leading hotels:

AMERICAN PLAN

Hotel	per day	Capacity
The Algonquin, \$2.50 to \$5.00	...	300
The Beckel, \$3.00 to \$4.00	...	200
The Phillips, \$2.00 to \$2.50	...	150
Hotel Daytonia, \$1.00 to \$1.50	...	100
The Abline, \$1.00 to \$1.50	...	25
The Vendome, \$1.50	...	24

EUROPEAN PLAN

The Atlas, \$1.00 to \$2.00	...	75
The Wehner, 50c. to 75c.	...	50
The Stag Hotel, 50c. ...	...	25
The Urban, 50c. to \$1.00	...	60

We have also on our list a number of smaller hotels and a whole lot of private houses, prices from 50 cents to 75 cents for single rooms. If enough applications are made a camp will be established, with well-furnished, double roof tents, four cots to a tent, at a nominal cost of from 50 cents to 75 cents each. Anyone wanting accommodations, if no individual arrangements are preferred, should make application as soon as possible to J. B. Heiss, President of the Florists' Club, who will see that all are accommodated to the best satisfaction of all concerned.

EXHIBITION AT NEW BEDFORD.

On Wednesday, June 27, the second annual rose show under the auspices of the New Bedford Horticultural Society was held in the City Hall. A fine display of hardy perpetuals was made by M. H. Walsh, gardener to Miss Sarah B. Fay of Woods Hole, James Garthley, gardener to H. H. Rogers of Fairhaven, had a fine collection of roses; A. J. Jahn displayed sweet peas in profusion; Dennis Shea, gardener to Mrs. H. Hathaway, had roses and a fine bench of sweet Williams.

It was gratifying to note that among Mr. Walsh's extensive collection such old friends as Paul Neyron, Bar. Rothschild, Magna Charta and Gen. Jacqueminot still hold a place.

The pronounced coloring of the cut flowers was nicely tempered by a group of tropical plants, and some fine specimens of palms and ferns. It is to be regretted that the plants were not plainly labelled with their names, as the hall was crowded with visitors who showed a desire to gain knowledge.

T. WHITE.

TRI-CITY FLORISTS' CLUB.

The Tri-City Florists' Club of Davenport, Ia., held its annual picnic on June 28 near Black Hawk's watch tower on Rock river. A full quota of members and their families were on hand. There was a sumptuous spread at noon and a lunch at six o'clock, games in the afternoon, and an enjoyable entertainment provided by the management in the evening in the watch tower. It was ten o'clock when the company started on the homeward trip, conceding this the most successful picnic ever held by the club.

H. G. BRYANT,

Secretary.

NORTH SHORE HORTICULTURAL SOCIETY.

The June show of this society was held on the 27th and 28th insts., in a large tent on the grounds of the Essex County Club. There was a continuous attendance both afternoon and evening. The fine exhibits evidenced an increasing interest by the summer residents and the list of prize winners presents more than the ordinary variety of names.

The silver medal for the best table of roses arranged by ladies only, was won by Miss M. E. Bartlett, the bronze medal by Mrs. Geo. E. Cabot. The Huerlin silver cup was taken by Mrs. R. C. Hooper, Wm. Swan, gardener, who was also awarded a special prize for collection of peonies. The J. H. Troy cup was won for the second time by Mrs. McMullen, Fred. Brasch, gardener; the silver medal for roses went to Mrs. Higginson, Jos. Clark, gardener, Mrs. McMullen taking the bronze medal. On best basket of roses arranged for effect, Mrs. Chas. Head, W. B. Jackson, gardener, won first with Penzance, single sweet brier rose, second Mrs. F. M. Whitehouse, Henry Minken, gardener. On best vase, Mrs. Prescott Bigelow, A. Christensen, gardener. The Spaulding estate, F. E. Cole, gardener, sent a fine exhibit of palms, crotons, etc., also of gladiolus Shakespeare; to each a certificate of merit was given.

The vegetables were attractively shown and Mrs. Philip Dexter, James Salter, gardener, was first; Mrs. Greeley Curtis, Edward Hooper, gardener, second. The judges were Kenneth Finlayson, David Weir and Julius Huerlin.

LENOX HORTICULTURAL SOCIETY.

The annual Rose and Strawberry Exhibition of the Lenox Horticultural Society took place in the Town Hall, Lenox, June 26th. Unfortunately perennials and strawberries were scarce, the former owing to the recent rains, the latter to the lateness of the season. Roses were shown remarkably well, especially a large vase of Frau Karl Druschki, exhibited by E. Jenkins, for which he was awarded a first class certificate. The principal exhibitors in pot plants were S. Carlquist who had some remarkably fine tuberous begonias and gloxinias, E. Jenkins who had standard geraniums which were excellent—they stood five feet high and were literally covered with bloom—gloxinias and Acalypha Sanderiana, and P. J. Donahue who had some good plants of Nicotiana Sanderac. In peonies, F. Heeremans had the largest display. Perennials were shown by Miss A. Kneeland and Miss H. Parish. In vegetables E. Jenkins and D. Dunn were first in their respective classes, in which were some good celery, onions and potatoes. F. Heeremans showed a collection of vegetables, not for competition, for which he was accorded a cultural commendation, and a diploma for lettuce "Sutton's Favorite." In the fruit classes the awards were divided between A. H. Wingett and P. J. Donahue, S. Reynolds and E. Edwards were the judges.

GEORGE FOULSHAM, Secy.

During Recess

"Best and youthful Jollity,
Quips and Cranks and Wanton Wiles,
Nods and Becks and wreathed Smiles,
Sport, that wrinkled Care derides,
And Laughter holding both his sides."

A PHILADELPHIA CELEBRITY.

*W. L. Schaeffer
67th St.
The Lancaster front
Philadelphia
MONTHLY CARD*



W. L. Schaeffer, familiarly known to his intimates as "Doc" Schaeffer, and famous as a wit and raconteur, has had his picture "taken," and it gives us pleasure to reproduce same herewith, so that our readers who have heard of this redoubtable Philadelphia florist may gaze on his features. The fact that he is shown watering the rake instead of the rose bush may be explained by his ecstasy over the fragrance of the flower or possibly by the item behind the spade; one good reason is as good as twenty. The winter style of head and neck gear is the latest Philadelphia fashion for June (the month of outdoor roses), and is specially designed to prevent summer colds. The attenuated brevity of the inexpressibles provides against overheating. Not patented.

G. C. W.

NEW YORK FLORISTS' PICNIC.

The New York Florists' Club outing was a great success. Everything, weather included, united to favor a large attendance. The sun made it hot for the athletes, but the shady grove and cool breeze kept the rest of the folks comfortable.

There were nearly four hundred

Joseph Breck & Sons Corp.
Seeds, Bulbs, Plants
AND AGRICULTURAL HARDWARE
47-54 NO. MARKET ST., BOSTON, MASS.

Before placing your order,
inquire for our figures on

BULBS.

JAMES VICK'S SONS,
Rochester, N. Y.

Cabbage Worms

For Pamphlet write to Fishkill-on-Hudson, N. Y. Sold by Seedsmen

NEW CROP PANSY SEED

MICHELL'S GIANT EXHIBITION MIXTURE—For size of bloom, length of stem, rich coloring and distinct markings, this strain cannot be excelled. Has been awarded first prize wherever exhibited. Price, trade pkt., 50c.; 75c. per 1/2 oz.; per oz. \$5.00.

Asparagus Plumosus Nanus
New Crop—Greenhouse Grown

100 Seeds 60c. 1000 Seeds \$ 4.00
500 " \$2 25 5000 " 19.00
10,000 Seeds, \$36.00

Send for our Summer Edition Wholesale Catalogue, of Seeds, Bulbs, and every requisite for the greenhouse and garden.

HENRY F. MICHELL CO.

Flower Seed and Bulb Specialists
1018 Market St., Philadelphia, Pa.

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New Crop of my Christmas Flowering SWEET PEA SEED

Christmas Pink and Florence Denzer,
pure white, will be ready August 1st.

These two well-known varieties are raised by over 2000 florists all over the world.—Here is one, out of many letters received:

Dear Sir: My sweet peas, which I raised from your seed, received the highest award at the Carnation Exhibit in Boston, being over 18 inches long.

JOHN T. GALE, Tewksbury, Mass.

Price 1-4 lb. 75c.; per lb. \$2.00
MAILED FREE

New Christmas Flowering Hybrids, 20 to 30 colors, mostly blue, salmon, purple, lavender, in mixtures; also Mrs. Edie Wild, carmine, separate color. 1 Trade pkt. \$1.00, 5 Trade pkts. \$4.00; not more than 5 pkts. taken in order to each customer just now. Those new hybrids are just as free bloomers as Christmas Pink and Florence Denzer, some much larger, and received first class Certificate of Merit by the Mass. Horticultural Society, Boston, March 24.

All seed originated with me is sold in my original sealed pkts., with cultural direction, to the growers, but none for seedsmen for propagating.

Orders filled strictly in rotation.

ANT. C. ZVOLANEK
Bound Brook, N. Jersey

Killed by lightly dusting with
HAMMOND'S SLUG SHOT

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ARE CELEBRATED FOR

Hardiness, Purity and Permanency

Specially blended to suit all conditions of soil for Meadow, Pasture, Lawns, Golf Links, Putting Greens, Tennis Courts, Terraces, Embankments and Shady Spots.

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Fresh Spawn Always on hand.
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BULBS
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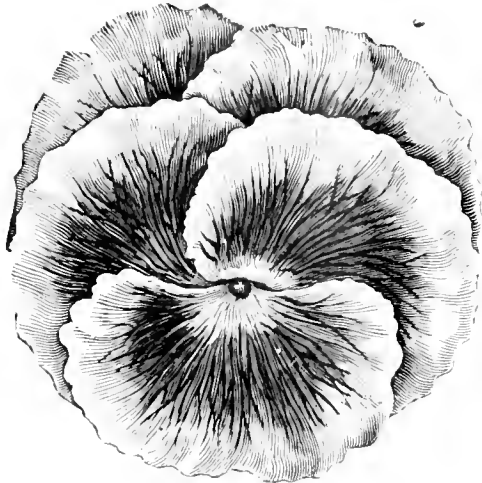
Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

JOHNSON'S KINGLY COLLECTION OF Giant Pansies

Never has a strain of pansy given more general satisfaction than has our "Kingly Collection of Giant Pansies." It is absolutely unrivaled in range of magnificent colors, size and substance, and no expense has been spared to bring it up to its present high standard of excellence. Half trade packet (1000 seeds, 30c. Trade packet packet (2000 seeds, 50c.; 5000 seeds, \$1.00, per oz., \$5.00). Per large Tr. Pkt. (2000 seeds) Per Oz.



ONE OF OUR KINGLY PANSIES.

Giant Adonis, beautiful light blue.....	25c.	\$1.50
Giant Prince Bismarck, beautiful shades of brown.....	25c.	1.50
Striped.....	25c.	1.50
Giant Peacock, ultramarine blue, claret and white, extra.....	40c.	2.00
Giant Emperor William, the best blue.....	25c.	1.25
Black.....	25c.	1.25
Giant white with dark eye.....	25c.	1.25
Trimarceau, choice mixed.....	25c.	1.50
Giant Fire King, fiery red and golden yellow.....	25c.	1.50
Giant Mme. Perret (grown by Lucien Perret, the introducer), a magnificent giant strain of rare excellence, very early, vigorous and rich combination of colors.....	40c.	2.50
Giant Lord Beaconsfield, purple, white petals.....	25c.	1.25
Giant Yellow with dark eye, fine.....	25c.	1.50
Rugnot's Superb Blotched.....	40c.	4.00
Cassier's Giant Five Blotched.....	40c.	3.50
Masterpiece, a magnificent variety with curled petals and many rich colors.....	40c.	3.50
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Write for our SPECIAL ADVANCE PRICES on Fall Bulbs

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Ready to ship the day order is received.

COLEUS, from 2 1/2 in. pots, fine plants, \$2.00 per 100; \$17.00 per 1000. Golden Bedder, Verschaffeltii, Victoria, and 10 other fancy varieties. Nutt, Poitevine, Ricard, Jaulin, 3 in., \$5.00 per 100. BOSTON FERNS, ready for 5 in. pots, \$35.00 per 100; 6 in., \$50.00 per 100; 7 in., \$65.00 per 100.

H. N. EATON, South Sudbury, Mass.

excursionists including over a dozen babies. The committee worked hard and deserves great appreciation; to carry such an outing to so successful a conclusion, was no easy task. The sail up the Sound and back to Wetzel's occupied a couple of hours. Dinner was ready on arrival and it was a good one. There was plenty of music and the games were all completed in time for the return sail at 7 o'clock as arranged. No accident occurred except a few falls by fat folks who fall easy and without much damage.

The judges of the dozen babies on the return voyage were a long time making their decision and ex-president Traendley's boy was the winner. The balance of the trip was spent by the six judges in hiding. The only remedy for this year's disappointed mothers is to try again. Nearly one hundred ladies bowled and three frames decided the fifteen handsome prizes. The married men trounced the bachelors at base-ball and the growers tugged the other fellows over the line, leaving the ground strewn with the exhausted. It was the most exciting contest of the day.

All the children were made happy with prizes, candy and "consolation." The ladies' races were great competitions and falls were many, but apart from dust and torn dresses, and disappointment, all is well. The fat men were not many and with John Nugent away, Traendly sailed in under bare poles, and not even winded.

The men's races were well contested throughout. Lautenschlager of Chicago leading all others in the quarter-mile. About one hundred men participated in the bowling and most of them judging by the scores, were nervous and unstrung. It was a great outing, and everybody was satisfied and happy.

John Waterer & Sons, Ltd.
AMERICAN NURSERY
BAGSHOT, ENGLAND

have the finest stock of recognized Hardy Rhododendrons, Azaleas, Andromedas, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

John Waterer & Sons are the great exhibitors of Rhododendrons in London.

NARCISSUS AND DAFFODILS FOR FORCING.

- Emperor, - \$12.00 per 1000.
- Princepts Max, \$4.00 per 1000.
- Poeticus Ornatus, \$3.75 per 1000.

POAT BROS., Ettrick, Va.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

BAMBOO CANES

6 to 8 feet for staking purposes, 1000, \$6.00

Carnation Supports

3 ring model, 100, \$3.00.

WM. ELLIOTT & SONS

201 Fulton Street, - New York

ROSES

Bride, Bridesmaid, Perle, Golden Gate and Ivory, extra strong, well rooted stock from 3 inch. \$5 per 100, \$45 per 1000. Best quality, careful packing and prompt service. **JOHN C. HATCHER,** Amsterdam, N. Y.

Small Ferns
 In 2 1-2 in. pots, Ready
Palms, Rubbers
 and
Araucarias

WM. W. EDGAR CO.,
 Waverley, Mass.

SURPLUS STOCK

Roses—150 B. Maids, 3-inch, \$1.00 per 100
 100 G. Gates, 3 " 5.00 " "
 125 Perles, " " 5.00 " "
 50 G. Gates, 4 " 7.00 " "

Good Stock ready for forcing. Will sell the lot for \$20.00 cash. Also, 600 Smilax 2-inch at \$2.00 per 100 or \$10.00 takes this lot. Cash with order.

CUNNINGHAM & SCOTT, 91 Canal St., Grand Rapids, Mich

In writing to Advertisers kindly mention HORTICULTURE.

Begonia
 "Gloire de Lorraine"
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 "Turnford Hall"
 NOW READY FOR DELIVERY

Propagated strictly from single leaf; this method gives much better results than from cuttings. \$16.00 per 100, \$140.00 per 1000. Adiantum Parlyense, 1 3/4 in. pots, \$8.00 per 100, 2 1/2 in. pots, \$15.00 per 100. Cash with order from unknown correspondents.

J. A. PETERSON
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Some give you quantity, some quality, I give you both

Bostons and Scotti

8000 6 in. Bostons at 40c.
 8000 6 in. Scotti at 40c.

PANS
 \$1.00, \$1.50, \$2.00 and \$2.50

Ten thousand 2 1/2 in. Plumosus Nanus at \$2.50 per 100; easily worth \$3.50.

WILLIAM C. SMITH
 61st and Market Sts.,
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No C. O. D.'s Satisfactory References required or the cash. Five cent remittance accompanies order.

Palms, Ferns and Decorative Plants

Just received in fine condition a large consignment of Palms, Araucarias and other foliage plants.

We also have to offer some strong bushy Ferns for Dishes in variety; also Pandanus, Dracaenas, Marantas, Crotons and Bedding Plants.

Wholesale Price List on application.

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 2 1-4 in., \$25 per 100

BOSTON FERNS
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Lilies, Japanese Plants

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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.
 Script Letters, 3. 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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WASHINGTON, D. C.

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Just to hand a fine importation C. Trianae, C. Labiata, Catt. Gigas, Hardyana Type, Odontoglossum Crispum, the real Pacho Type. To arrive shortly, C. Schroedera, Mendelli, etc. Write for our price list, it will interest you.

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Lager & Hurrell, Growers and Importers, Summit, N. J.

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Having ordered a large quantity I can fill your orders at short notice.

Price \$25 per 100 \$200 per 1000

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6000 of the choicest on hand at the following lowest cash prices:

Excelsa, 5 1/2 in. pots, 3-4 tiers, 10 to 14 in. high, 50 to 60 cts., 6-in. pots, 4-6 tiers, 16 to 22 in. high, \$.75, \$1.00 to \$1.25 each.

Compacta Robusta, very fine, 6-7 in. pots, \$1.25, \$1.50, \$1.75, \$2.00 each.

Glaucia, 6-7 in., \$1.00, \$1.25, \$1.50 each.

Kentia Fohsteriana and Belmoreana, 6-in., 30 to 40 in high, 4 years old, \$1.00, \$1.25 to \$1.50, made up, \$2.00 each.

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 1012 Ontario St., Philadelphia.

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Artistic Designs
High Grade Cut Blooms

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Connecticut Avenue and L Street
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GATTLEYAS EXCEPTIONALLY FINE

40c. each

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The WHOLESALE FLORIST OF PHILA.

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Lily of the Valley.

Sweet Peas.

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Valley Violets and all Cut Flowers

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Cut Flowers

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60 WABASH AVE., CHICAGO

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO July 3	ST. LOUIS July 3	PHILA. June 25	BOSTON July 5
ROSES				
Am. Beauty and Edgely Fan. & Sp.	10.00 to 20.00	15.00 to 20.00	20.00 to	8.00 to 20.00
Extra.....	6.00 to 8.00	10.00 to 12.50	12.00 to 15.00	6.00 to 8.00
No. 1.....	3.00 to 4.00	4.00 to 8.00	10.00 to	4.00 to 6.00
Lower grades.....	1.00 to 2.00	3.00 to 5.00	3.00 to 5.00	.50 to 2.00
Bride & Maid—Fan. & Sp.....	5.00 to 9.00	4.00 to 5.00	6.00 to	3.00 to 4.00
Extra.....	3.00 to 4.00	2.00 to 3.00	4.00 to 5.00	1.00 to 2.00
No. 1 and Lower gr.....	1.00 to 2.00	..... to	2.00 to 3.00	.35 to 1.00
Liberty, Fancy.....	4.00 to 6.00	..... to	10.00 to 12.00	4.00 to 8.00
Ordinary.....	2.00 to 3.00	..... to	6.00 to 8.00	.50 to 3.00
Richmond, Fancy.....	4.00 to 6.00	4.00 to 5.00	..... to	4.00 to 8.00
Ordinary.....	2.00 to 3.00	2.00 to 3.00	..... to .....	.50 to 3.00
Golden Gate, Chatenay, Fancy.....	4.00 to 6.00	4.00 to 5.00	6.00 to	3.00 to 4.00
Ordinary.....	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00	.50 to 1.00
Kaiserin, Carnot, Fancy.....	..... to .....	..... to	6.00 to	4.00 to 8.00
Ordinary.....	..... to .....	..... to	3.00 to 4.00	.50 to 3.00
CARNATIONS				
Fancy.....	1.50 to 2.00	1.50 to 2.00	2.00 to 3.00	.75 to 1.00
Ordinary.....	.50 to 1.00	.75 to 1.00	1.00 to 1.50	.35 to .75
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to	40.00 to 60.00	30.00 to 50.00
Lilies.....	6.00 to 8.00	..... to	12.00 to	5.00 to 8.00
Callas.....	..... to .....	..... to .....	..... to .....	..... to
Lily of the Valley.....	2.00 to 4.00	3.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Peonies.....	..... to .....	..... to .....	..... to	4.00 to 6.00
Sweet Peas.....	.50 to 1.00	.15 to .20	.35 to .75	.25 to .35
Mignonette.....	..... to .....	..... to	1.00 to .....	..... to 1.00
Adiantum Cuneatum.....	.25 to 1.00	..... to 1.00	..... to .....	.75 to 1.00
" Croweanum.....	..... to .....	..... to .....	..... to .....	..... to 1.50
Smilax.....	10.00 to 15.00	..... to 15.00	15.00 to	12.00 to 16.00
Asparagus Plumosus, strings.....	25.00 to 35.00	25.00 to 50.00	35.00 to 50.00	..... to 50.00
" " & Sprengel bunches	25.00 to 35.00	25.00 to 50.00	35.00 to 50.00	20.00 to 35.00
Lilacs per 100 bunches.....	..... to .....	..... to .....	..... to .....	..... to
Snapdragon.....	..... to .....	..... to .....	..... to .....	..... to

J.A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and
Carnations
A Specialty.....

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GROWER of

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217-219-221-223 Diamond St.
PITTSBURG, PA.

Largest Wholesale House Between
New York and Chicago.

Cut Flower Market Reports

BOSTON The cut flower market is at its lowest point for the season, probably, this week. There is nothing doing; even the street fakirs have stopped buying and the surplus over and above what is sold legitimately—and that means 90 per cent. of the receipts—finds absolutely no takers at any price. This applies to practically every item on the list and the price quotations given this week really convey nothing of value as to the state of the market at present.

BUFFALO The past week's business was not so flourishing in the cut flower line although satisfactory to all. Stock of all kinds plentiful, especially roses, carnations and peas; roses showing the effect of the extreme hot weather. Weddings and other social functions are about over and vacations are in order. At the time of mailing this report (July 2) business is at a standstill and the market overloaded on everything. Sweet peas at this date are a glut, together with other stock.

CHICAGO Business has dropped down a little and a few of the florists are preparing for their vacations. Stock is looking rather poor on account of the rains of the past week. Carnations are now at the bottom of the ladder. Brides and Bridesmaids are stubbornly holding out. Beauties have improved a little. Lily of the valley is some better and green stock is looking good.

COLUMBUS At last the splendid steady business we have all been having over since Easter, begins to slack. Summer dullness has come. Apart from sweet peas and carnations, of which there is daily an enormous supply, stock is in very good quality for so late in the season. Counter trade is falling off rapidly, but as against this quite a few large wedding decorations, and considerable funeral work has very much relieved what started out to be a very dull week. Prices have settled to a summer basis. Monday evening, July 2, the Florists' Club has a smoke talk. The weather is very hot and we need rain badly.

LOUISVILLE Business conditions the past week were a little slow, and stock in general is down to a pretty low quality. Carnations and roses of fair grade have met with a satisfactory demand. Sweet peas are poor and go slowly. Lily of the valley is seldom called for. The usual summer stagnation is seen along all lines.

NEW YORK For the season of the year there is a large quantity of stock coming into the market and little use for it all. Much of it will not be sold at all. Roses are abundant—too much so. There never has been so many American Beauties in this market as during the latter part of June. Bridesmaids and Brides are not wanted. Kaiserin, Carnot and Killarney fill the bill better. Shipments of carnations are heavy and beyond a few of the best there is no call for them. The same may be said of peas. Lilies are not yet in demand, neither are cattleyas; the latter cannot be

moved at any price at present. Outdoor stock comes in abundantly but is not wanted. Lily of the valley is doing as well if not better than anything else. The market is practically over by ten o'clock in the morning. The wholesale houses will close at 4 P. M. during July and August.

PHILADELPHIA All through the season the cut flower business in this locality has been prosperous, and June showed up equally well. Most of the wholesale centres report a larger aggregate than last year and seem satisfied with results. The past week compared very favorably—especially in the early part, when quite a number of weddings and other social affairs were on the tapis. Local Beauties, Brides and Bridesmaids are indifferent as to quality, but there is some very good stock of these coming from a distance. Kaiserin is the best among our home-grown roses. Genevieve Lord is our best pink carnation. Lily of the valley is coming in a little more freely and is in excellent demand. Cattleyas plentiful and exceptionally fine.

SAN FRANCISCO The past week has been the best in a business way the few re-established florists have had since the earthquake-fire played havoc with them all. The larger part of this better trade is what they call the shipping factor of the business, owing principally to the school-closing season throughout the state and Nevada. These re-established tradesmen are wise ones, in that they have been advertising in the city publications that have a wide Pacific Coast circulation, the returns proving it a good investment. And into this swim has come one more revived florist, Luther M. Laren, proprietor of The Rosarie, located at California and Devisadero streets. Beauties, Brides and Bridesmaids and Libertys, lily of the valley, cattleyas, white iris and sweet peas were of first quality and the principal stock supplied. McEllen, the Burlingame wholesale grower, remarked this week: "Business is picking up slowly and by the way the city is rebuilding I think business will be fairly good this coming fall." And Siever & Boland said: "Since we have advertised the opening of our store at the nurseries things have begun to look pretty favorable. We hope to relocate down town as soon as business centers there once more, which will be quite soon judging by progress already made."

PERSONAL.

Peter Duff, of Orange, N. J., sailed on the Anchor Line steamer for Glasgow on June 30.

C. D. Jarvis has been appointed assistant horticulturist of the Experiment Station at Storrs, Conn. E. E. Bennett, whom he succeeds, is now located at Fort Collins, Colo.

Inclosed please find one dollar for subscription to HORTICULTURE. We are great admirers of your journal. I think it the best published in the interest of the profession; others think the same.—P. A. J.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Charles G. Roebling, Trenton, N. J., submits for registration Cattleya Charles G. Roebling; a stray seedling. Flower pure white, six inches across with slight trace of yellow in throat. Probably raised from Cattleya Harrisonae alba X Cattleya Mendelli Bluntii, which parents it resembles very much. Bulbs are eighteen inches long and two-leaved; quite strong growing. Flowers are of good substance.

Also Cattleya Kinkora C. Mendelli Morganii X Cattleya intermedia alba. Flowers pure white, with richly colored lip. Bulbs are two-leaved, slender, about ten inches long.

W. M. J. STEWART, Secy.

CLUB AND SOCIETY NOTES.

The Ottawa Horticultural Society held its annual rose show on Tuesday, June 26.

The Suffolk County Horticultural Society and the Bay Shore Horticultural Society of New York met recently to consider the union of the two organizations. All minor details were settled harmoniously, but it was not possible to decide upon a name, therefore for the present each society will continue as heretofore.

The Victoria Horticultural Society, Victoria, B. C., held their first rose show on June 22. Major C. T. Dupont's exhibit of gloxinias and amaryllis, E. B. Wallace's collection of hardy perennials and Mrs. Croft's mantle decoration were among the most striking features. Some magnificent roses were shown, but the list of prize winners has not yet reached us.

Among the prize winners were S. Jackman, Percy Wollaston, Jr., John Sherburn, J. P. Stewart, Miss Loewen, Miss Clapham, J. A. Bland, Mrs. F. Sylvester, Mrs. F. B. Pemberton, Mrs. Burton, Mrs. Langworthy.

PHILADELPHIA NOTES.

Among our visitors this week were Mrs. Joseph Wolf, Savannah, Ga., and Mr. and Mrs. George B. Solomon of Boston—the latter on their wedding tour.

The sympathy of the trade is extended to Mr. Robt. Buist on the loss of his wife which occurred at their Walnut street residence on the 2nd inst., also to Mr. Howard M. Earle of W. Atlee Burpee & Co., who lost a near relative under tragic circumstances.

The Florists' Club reception and banquet to Mr. Hugh Dickson, of Belfast, Ireland, took place at Dooner's Hotel on Friday the 6th inst., and proved a very enjoyable affair.

Ernest Hemming gave a very interesting talk on the Japanese Iris at the monthly meeting of the Florists' Club last Tuesday. Edward Reid made a lengthy report on the express grievance matters and his committee was made permanent.

Harry Butler, florist, 310 West 117th street, New York, was a victim of the intense heat on June 30.

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Wholesale Commission Florist
COOGAN BUILDING
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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending June 30 1906	First Half of Week beginning July 2 1906	Last Half of Week ending June 30 1906	First Half of Week beginning July 2 1906
Roses				
Am. Beauty and Edgeley fan and sp.	12.00 to 20.00	12.00 to 20.00		
" extra.....	3.00 to 10.00	5.00 to 10.00		
" No. 1.....	3.00 to 5.00	3.00 to 5.00		
" Lower grades.....	.50 to 2.00	.50 to 2.00		
Bride & Maid, fan and sp.....	3.00 to 5.00	3.00 to 5.00		
" extra.....	2.00 to 3.00	1.00 to 2.00		
" No. 1 and lower grades.....	.50 to 1.00	.50 to 1.00		
Liberty, fancy.....	6.00 to 8.00	6.00 to 8.00		
" ordinary.....	.50 to 4.00	.50 to 4.00		
Richmond, fancy.....	6.00 to 8.00	6.00 to 8.00		
" ordinary.....	.50 to 4.00	.50 to 4.00		
Golden Gate, fancy.....	3.00 to 5.00	3.00 to 5.00		
" ordinary.....	2.00 to 3.00	2.00 to 3.00		
Chatenay, fancy.....	3.00 to 5.00	3.00 to 5.00		
" ordinary.....	2.00 to 3.00	2.00 to 3.00		
Carnations, Fancy.....	1.50 to 2.00	1.00 to 2.00		
Carnations, Ordinary.....	.50 to 1.00	.35 to .75		
Cattleyas.....	35.00 to 60.00	35.00 to 60.00		
Lilies.....	4.00 to 5.00	4.00 to 5.00		
Callas.....	..... to .....	..... to		
Lily of the Valley.....	1.00 to 3.00	1.00 to 3.00		
Peonies.....	..... to .....	..... to		
Sweet Peas, bunches.....	.10 to .25	.05 to .15		
Nigronette.....	.50 to 1.00	.50 to 1.00		
Adiantum Cuneatum.....	..... to .50	..... to .50		
" Croweanum.....	..... to 1.50	..... to 1.50		
Smilax.....	5.00 to 8.00	5.00 to 8.00		
Asparagus Plumosus.....	..... to 25.00	..... to 25.00		
" & Sprengeri, bunches.....	..... to .....	..... to		
Snapdragon.....	..... to .....	..... to		

ORCHIDS AT ALL SEASONS
WM. STUART ALLEN CO.
Commission Merchants in Cut Flowers
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Telephone 356 Madison Square

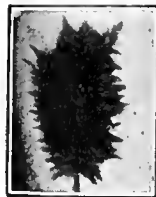
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Our Mr. Jos. Stern returned from EUROPE with

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FADELESS
SHEET MOSS**

**\$2.50
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Send for Circular and sample

LYRATA

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DO IT NOW?

E. A. BEAVEN, Evergreen, Ala.

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ROSES, CARNATIONS

And all kinds of Seasonable Flowers

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L. D. Telephone, Main 2618

WHOLESALE FLOWER MARKETS. PER 100. TO DEALERS ONLY.

	CINCINNATI July 4	DETROIT July 3	BUFFALO July 3	PITTSBURG June 26
ROSES				
Am. Beauty and Edgely, fan and sp.	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
extra.....	15.00 to 20.00	12.00 to 15.00	12.00 to 20.00	12.00 to 15.00
No. 1.....	10.00 to 12.50	10.00 to 15.00	5.00 to 12.00	6.00 to 8.00
Lower grades.....	5.00 to 8.00	5.00 to 8.00	3.00 to 5.00	2.00 to 3.00
Bride and Maid, fan, and sp.....	8.00 to 10.00	6.00 to 8.00	5.00 to 7.00	..... to 8.00
extra.....	5.00 to 6.00	..... to 6.00	5.00 to 6.00	..... to 6.00
No. 1 and Lower grades.....	2.00 to 4.00	3.00 to 4.00	3.00 to 5.00	2.00 to 4.00
Liberty, fancy.....	8.00 to 10.00	6.00 to 8.00	6.00 to 8.00	..... to
Ordinary.....	3.00 to 5.00	3.00 to 4.00	2.00 to 6.00	..... to
Richmond, Fancy.....	..... to	6.00 to 8.00	6.00 to 8.00	8.00 to 12.00
Ordinary.....	..... to .....	..... to 4.00	2.00 to 6.00	4.00 to 12.00
Golden Gate, Chateauf, Fancy.....	..... to .....	..... to 6.00	..... to	8.00 to 10.00
Ordinary.....	2.00 to 4.00	3.00 to 4.00	..... to	4.00 to 6.00
Kaiserin, Carnot, Fancy.....	..... to .....	..... to 6.00	6.00 to 8.00	8.00 to 10.00
Ordinary.....	..... to .....	..... to 4.00	3.00 to 5.00	4.00 to 6.00
CARNATIONS				
Fancy.....	..... to 3.00	..... to 1.50	2.00 to 2.50	2.00 to 3.00
Ordinary.....	1.00 to 2.00	.50 to 2.00	1.00 to 2.00	.75 to 1.00
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to .....	..... to .....	..... to
Lilies.....	..... to .....	..... to 15.00	10.00 to 12.00	15.00 to 18.00
Callas.....	..... to .....	..... to .....	..... to .....	..... to
Lily of the Valley.....	..... to .....	..... to .....	..... to .....	..... to
Paeonies.....	..... to	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Sweet Peas.....	..... to .....	..... to .....	..... to .....	..... to 8.00
Mignonette.....	.25 to .50	.30 to .50	.20 to .50	.25 to .75
Adiantum Cuneatum.....	..... to 1.00	..... to	1.00 to 1.50	..... to
Croweanum.....	..... to .....	..... to .....	.50 to 1.00	..... to
Smilax.....	..... to .....	..... to	1.00 to 1.50	1.25 to 1.50
Asparagus Plumosus, strings.....	..... to 12.50	..... to 12.50	..... to 20.00	12.00 to 15.00
"& Sprengerii, bunches.....	40.00 to 50.00	30.00 to 40.00	40.00 to 50.00	25.00 to 50.00
Gladiolus.....	3.00 to 5.00	..... to 40.00	25.00 to 50.00	30.00 to 50.00
Snapdragon.....	..... to .....	..... to .....	..... to .....	..... to 6.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

Consult the Buyers' Directory and Ready Reference Guide on pages 802 to 805.

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Asparagus Plumosus manus or Asparagus Sprenger seedlings, strong, thrifty, 100 \$1.25, 1000 \$10.00. H. H. Berger & Co., 47 Barclay St., N. Y. City.
Asparagus Plumosa, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erle Floral Co., Erle, Pa., or Wm. F. Kasting, 385 Elliott St., Buffalo, N. Y.

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Jerusalem cherries, seedlings, 25c. per 100; 2 1/2-in. pots, \$3.00 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

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10,000 fine potted stock ready to plant. 20 best sorts. List free. Benjamin Connell West Grove, Pa.
Cannas, from 4-inch pots, leading varieties, fine stock. J. W. Adams & Co., Springfield, Mass.

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5000 best commercial sorts. List free. Benjamin Connell, West Grove, Pa.
Chrysanthemums, out of 2 1/2-in. pots, good strong stock. Write for varieties and prices. Pittsburg Rose & Carnation Co., Gibsonia, Pa.

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Ferns from flats, best sorts, \$1.25 100;
\$10.00 1000. Ferns for fern dishes, 2 1/2 in.,
\$3.00 100; \$25.00 1000. Fern spores, named or
mixed, 1. 25c. pkt.; large pkt., 50c. H. H.
Berger & Co., 47 Barclay St., N. Y. City.

SEEDLING FERNS IN FLATS, now
ready. Flats contain over 100 clumps
which can be divided, ready now for
2 1/2 in. pots, in following varieties: Aspidi-
um Tausenense, Cryptogramma Falcatum,
Pteris Cretica alba Lineata, Nema Com-
pacta, Magnolia, Cristata, Adiantoides,
Windsor, Mayil, Scrupulata, Lastica Varie-
gata, etc. Prices \$2.00 per flat, 20 or
more flats at \$1.75. Cash with order from
unknown parties. McHutchison & Co.,
17 Murray St., New York City.

FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2
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FLORISTS' FERTILIZER.

A sample 100-lb. bag of Blatchford's
Plant Grower and Land Renovator Fer-
tilizer only \$2.75. It is composed solely
of pure rose growers' bone meal, nitrate
of soda, Peruvian guano, sulphate of am-
monia, sulphate of potash and gypsum, in
the correct proportions. For benches and
potting plants, roses, carnations, lilies,
mums, etc., it has never been surpassed.
Address J. W. Barwell, Blatchford's Calf
Meal, Animal and Poultry Foods, Fertiliz-
ers, Karbo Dip, Seeds, etc., Wankegan,
Ill. Established at Leicester, England, in
1800.

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Mills, the Florist, Jacksonville, Fla.

Telegraph or mail orders promptly filled.
Long distance telephone
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Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PEONIES.

Fine collection of Best Peonies. Complete Peony and P'box Manuals, 25 cents each. C. S. Harrison's Select Nursery, York, Nebr.

PIPE FITTINGS.

Pipe, Valves and Fittings, Cuyler & Mohler, Baltimore, Md. Manufacturers' prices, F. O. B. your railroad station. Immediate shipment. Try us.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Primula Obs. Grandiflora. 4-in. pots. \$6 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

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American Beauties, 2-in., \$55.00; 3-in., \$80.00 1000. Cash. J. Henry Bartram, Lansdowne, Pa.

Roses. Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1-2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

2 1-2-in. pots, ready now. Baby Ramblers, Texas, H. P. Roses, 50 varieties, at \$30.00 1000; Crimson Ramblers, \$25.00 1000; Baltimore Belle, Dorothy Perkins, Pink, White and Yellow Ramblers, queen of Prairie, Seven Sisters, etc., at \$20.00 1000. Gilbert Costich, Rochester, N. Y.

The beautiful new pink rose, MISS KATE MOUTON, is the queen of all pink roses. It's a winner and you should grow it. Price \$30.00 100, 500 \$125.00; 1000 \$200.00; 5000 and upwards, \$175.00 per 1000. Minneapolis Floral Co., Minneapolis, Minn.

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SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

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SWEET POTATO PLANTS.

For sale, 100 M. Sweet potato sprouts, extra fine; 500 M. cabbage plants, several varieties, all \$1.00 per M.; \$8.00 per 10 M. Orders filled same day received. W. F. Allen, Salisbury, Maryland.

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Wirework. Write for our catalogue
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

George A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

Buffalo.

Wm. F. Kasting, 383-87 Ellcott St., Buffalo, N. Y.
For page see List of Advertisers.

Chicago.

J. A. Budlong, 37 Randolph St., Chicago.
For page see List of Advertisers.

E. H. Hunt, 76-78 Wabash Ave., Chicago.
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Chas. W. McKellar, 51 Wabash Av., Chicago.
For page see List of Advertisers.

Peter Reinberg, 51 Wabash Av., Chicago.
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Vaughan & Sperry, 60 Wabash Av., Chicago.
For page see List of Advertisers.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

Detroit.

Michigan Cut Flower Exchange, 38 & 40 Miami Av. Wm. Dilger, mgr.
For page see List of Advertisers.

WHOLESALE FLORISTS—Continued.**New York.**

Wm. Stuart Allen Co., 53 W. 28th St., New York.
For page see List of Advertisers.

J. S. Fenrich, 110 W. 28th St., New York.
For page see List of Advertisers.

Ford Bros., 48 West 28th St., New York.
For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 West 28th St.
For page see List of Advertisers.

E. C. Horan, 55 West 28th St., New York.
For page see List of Advertisers.

Philip F. Kessler, 55 W. 26th St., New York.
For page see List of Advertisers.

Julius Lang, 53 West 30th St., New York.
For page see List of Advertisers.

A. H. Langjahr, 55 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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Frank Millang, 55-57 W. 26th St., New York.
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A. Moltz, 55-57 W. 26th St., New York.
For page see List of Advertisers.

John J. Perkins & Son, 115 W. 30th St., New York.
For page see List of Advertisers.

John I. Raynor, 49 W. 28th St., New York.
For page see List of Advertisers.

W. F. Sheridan, 39 W. 28th St., New York.
For page see List of Advertisers.

Traendly & Schenck, 44 W. 28th St., New York.
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Hicks & Crawbuck, Inc., 76 and 78 Court St., Brooklyn, N. Y.
For page see List of Advertisers.

Philadelphia.

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
For page see List of Advertisers.

Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
For page see List of Advertisers.

S. S. Pennock, 1612 15 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.

Edward Reid, 1526 Ranstead St., Philadelphia, Pa.
For page see List of Advertisers.

Pittsburg.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
For page see List of Advertisers.

New Offers in This Issue.**ARACAURIAS, KENTIAS.**

Godfrey Aschmann,
1012 Ontario St., Philadelphia.
For page see List of Advertisers.

BULBS.

James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

GIANT PANSY SEEDS.

Johnson Seed Co.,
217 Market St., Philadelphia.
For page see List of Advertisers.

MARIE LOUISE VIOLETS.

C. Lawritzen, Rhinebeck, N. Y.
For page see List of Advertisers.

PANSY SEED.

Augustus Zirngiebel, Needham, Mass.
For page see List of Advertisers.

SURPLUS STOCK OF ROSES.

Chuningham & Scott,
91 Canal St., Grand Rapids, Mich.
For page see List of Advertisers.

SEED TRADE TOPICS

SEED TRADE ASSOCIATION.

The American Seed Trade Association met in 24th annual convention, June 26th, at the Boody House, Toledo, Ohio.

The delegates were welcomed to the city by his Honor, Mayor Whitlock, after which President Grenell delivered his address. Following the President's address the regular order of business was taken up, consisting of the reading of reports of the several committees. A number of instructive papers were presented at the various sessions.

The convention closed Thursday, 28th, after electing officers for the ensuing year. H. W. Wood of Richmond, Va., was elected president, Chas. Burge of Toledo first vice-president and Geo. B. McVey of Birmingham, Ala., second vice-president. A straw vote to learn the preference of the members as to the next place of meeting showed a strong preference for some place in the vicinity of New York City; presumably the Oriental Hotel at Far Rockaway.

In point of attendance, and importance of business transacted, this convention will certainly take rank with the most important of its predecessors, and in the matter of the entertainment of their guests, the Toledo seedsmen have established a new high standard.

On Tuesday evening the seedsmen and their friends enjoyed the hospitality of their Toledo brethren in the form of a moonlight sail on Lake Erie. Truth to tell, however, the moon was a negligible quantity and a most considerate chaperon, as the little of her face that was visible early in the evening she covered with a veil of clouds, thus giving sentimental couples the full benefit of any shadowy corners they could find.

The banquet Wednesday night, one of the best ever enjoyed by the association, but unfortunately prolonged until past midnight and made tedious by too many and too long speeches. Such is often the case at affairs of this kind, and if those having the arrangements in hand would limit the speeches to ten or fifteen minutes, and not too many of them, the very happy effects of a good dinner with music and good fellowship would not so often be more or less nullified.

The ladies received special attention and every effort was made to please them and judging by their remarks their efforts were not in vain. In fact the ladies were delighted, and one young lady declared the men of Toledo were "perfectly lovely" and "so thoughtful and considerate." The business of the convention was finished on Thursday before luncheon, and in the afternoon the masculine element hid them away to a ball game which they greatly enjoyed as they were treated to a fine exhibition of the American game.

The free seed distribution received attention, and ways and means were discussed for putting a stop to it. The members seemed well pleased with the progress made during the past year, and were confident of eventually giving it a knockout.

Only one California seed grower was at the convention this year—Mr. Rhonert. His account of conditions are

most favorable and particularly as regards onion seed.

Boston had not one representative present. What has the Association been guilty of to be thus punished? Is there no way we can get together? Neither Baltimore nor Washington were represented excepting by the grass-seed dealers' and they surely did credit to their branch of the business from all sections of the country.

A beautiful cut glass punch bowl and set of cut glass cups or mugs was presented to the retiring president W. H. Grenell by his many admirers. Albert McCullough made a very felicitous presentation speech and Mr. Grenell though completely taken by surprise, replied very gracefully.

THE ONION SEED CROP.

More or less authentic rumors of damage to the growing onion seed crop in California have been in circulation for some weeks, but the yearly cry of wolf, from the Pacific Coast has had much the same effect on the seedsmen of the country as on the people in the well known fable. There appears, however, to be a substantial basis for the present reports about the onion seed crop, and it is generally believed it will be fully 50 per cent. below the estimated yield of two months ago. As the acreage is somewhat short, and the quantity of seed carried over not above 20 per cent. of that carried a year ago indications are that a new high level will be reached on prices the coming year, at least higher than at any time during the past twenty years.

SEED TRADE NOTES.

The Churchill Grain and Seed Co. was incorporated July 2nd with a capital of \$50,000 by Jacob Baker, Chas. E. Cameron, Lloyd T. Williams, F. L. Geddes and Walter E. Stone. The concern will remain practically unchanged from the old firm of Churchill & Co.

At a meeting of the stockholders of The Henry Philipps Seed and Implement Co., of Toledo, O., held on the 21st of June the following officers were elected: President, Mrs. E. West Philipps; vice-president, P. A. Philipps, and at a meeting held one week later, on the 28th of June officers were elected as follows: President, Paul A. Philipps; vice-president, Henry West (a son of Mrs. E. West Philipps); secretary and treasurer, Mrs. E. West Philipps.

Josiah Livingston, the vice-president, and Thomas J. Ludwig, the general manager, of the Livingston Seed Company, Columbus, O., as well as Frank P. Sperry the manager of the field and farm seed department for same firm, attended the seedsmen's convention at Toledo. All had an enjoyable and profitable trip, and are very enthusiastic regarding the splendid program of entertainment provided by Mr. E. S. Burge and his able associates.

The Johnson Seed Co. opened their new store 217 Market street, Phila-

delphia, Pa., on July 2. All branches are fully equipped and ready for business. Wm. J. Sherry who conducted the flower seed and bulb department of the old firm occupies a similar position with the new concern—with some added responsibilities. John M. L. Singleton one of the oldest and most experienced seedsmen in Philadelphia has charge of the vegetable seeds. Herbert W. Johnson is president; Clifford Phillips, secretary and treasurer. Joseph F. Bradley is in charge of the grass seed and bulk departments. Mr. Johnson's health is now fully restored and the same energy and ability which made him so conspicuous a success in the past twenty-five years will be given to the new venture.

NASHUA, N. H., NEWS.

Crowds of people are visiting the beautiful garden of Judge C. W. Hoitt, daily. His peonies are the finest in this town and probably in the state.

The weather conditions are lots of heavy showers and it is almost impossible to cultivate carnation fields; however, the plants are looking fine.

The electrical storm last week did much damage to peonies.

Everybody was very busy during the month of June, and everything in the shape of bedding plants is sold out but at prices lower than last year.

Rudolph Gaedeke of the firm of August Gaedeke & Co. will take a long vacation. He expects to visit the west and European countries.

Mr. Hodge, now with Harvey Green, of Lowell, Mass., will assume his new duties as grower for A. Gaedeke & Co. next week, and D. C. Gray will start in as assistant grower and decorator.

W. B. Taylor formerly of August Gaedeke & Co. has accepted a position as forester for the Nashua Mfg. Co.

CATALOGUES RECEIVED.

J. F. Rosenfield, West Point, Neb. List of Peonies.

Peterson Nursery, Chicago, 1906 list of peonies and German iris.

WILLIAM PLUMB

Landscape Gardener and Horticultural Expert

Estates Large and Small Laid Out, Graded and Planted

St. James Building, 1133 Broadway
NEW YORK

Vegetable Plants

SWEET POTATO, CABBAGE, TOMATO, PEPPER, CELERY
All kinds of Vegetable Plants. Best Plants, Lowest Prices. Can ship direct by all express companies insuring low express rates. Write for Prices. Send list of your needs in Vegetable Plants and we will give you special low prices.

PLAINFIELD NURSERY, Plainfield, Indiana

Now Ready

Zirngel's Prize Pansy Seeds in trade packages, \$1.00 each. Giant Market, 2000 seeds; Giant Fancy, 600 seeds. Full directions with each package.

AUGUSTUS ZIRNGEL, Needham, Mass.

NEWS NOTES.

The grange of Litchfield, Conn., held their annual rose show on June 30.
The florists of Dixon, Ill., sustained considerable loss by a hail storm on the 27th of June. All were insured.

Joseph Braun of Westerly, R. I. has leased the greenhouses of the Stafford Floral Company at Stafford Springs, Conn., for two years.

Lozier, the florist, has purchased the business of the New York Floral Company and will absorb it in his store at 317 Sixth avenue, Des Moines, Iowa.

Edward Seery of Paterson, N. J., has brought suit against the Quin estate for \$1000 damages to his stock by the bursting of water pipes in an upper room occupied by a doctor.

John Drexel, a florist who has been employed at various times in Omaha, Neb., was struck and killed by a train near Nebraska City. He was 43 years old; a mother, sister and brother survive him.

The Yokohama Nursery Company of New York will have the handling of 1,000,000 seeds of Phoenix Roebeleni, their European representative, Mr. Alfred Dimmock, having secured the agency for America.

William Hoyt, an employe at the Stephen Hoyt Sons Nursery, New Canaan, Conn., was drugged and robbed of \$300 by a stranger who he thought would be a possible customer for a horse he wanted to sell.

Miss Florence Kennedy, who has conducted a successful business at Cripple Creek for the past four years, has purchased the retail store of J. B. Braidwood at Colorado Springs, Col. William Clark will assume charge of the greenhouses again.

A Horticultural Commission has been appointed for Lake County, California, to institute a campaign against insect pests and pear blights. W. Johnston of Kelseyville, is chairman, T. A. Lyons of Lakeport and A. M. Harris of Lower Lake the other members.

The rose fair held recently at Spokane, Wash., was a success. Exhibits were made by the Sanders Floral Co., Hoyt Bros. and the Spokane Florist Co. Judges of florists exhibits, Fred Alsbaugh, Fred Phair and W. H. Winfree; of amateur displays, Miss Amy K. Luffman of the Armstrong & Wright Co., C. T. Kipp of the Spokane Florist Co., and H. M. Sanders of the Sanders Floral Co.

GREENHOUSES BUILDING AND PROJECTED.

Greenwood, Mass.—John Barry, one house.
Norristown, Pa.—John Holt, one house.
Oakdale, Conn.—Chapel Brothers, one house.
Newton, Conn.—R. O. Bennett, one house 10 x 10.
Bozeman, Mont.—Agricultural College, one house.
Basking Ridge, N. J.—C. L. Roberts, range of houses.
So. Framingham, Mass.—Remick & Smith, one house.



WANTS, FOR SALE, ETC.
Advertisements in this column one cent a word. Initials count as words. Cash with order.

GOOD OPPORTUNITY
ENERGETIC YOUNG MAN, with thorough Ornamental Nursery training, including hardy herbaceous plants, may find it to his advantage to correspond with us. Permanent position to right party. State experience, references and salary expected. Position now open.
The ELM CITY NURSERY CO.,
NEW HAVEN, CONN.

FOR SALE—Five greenhouses containing 5000 feet of glass. Hot water heat. Town water. One acre of land. 10 minutes walk from depot. 1 minute from electric. Near churches, stores and schools. For particulars write.
A. F. BELCHER, Foxboro, Mass.

GREAT BARGAIN—Retail florist's establishment, in Brockton, Mass., fully stocked, fine location. Must be sold at once. Address Greenhouse, care HORTICULTURE, 11 Hamilton Place, Boston.

SALESMAN WANTED—To introduce a line of irrigating and sprinkling outfits for greenhouses and outdoor use; a proven success. Bennett Bros. Co., Lowell, Mass.

WANTED—A few specimen plants of Polypodium Aureum. William W. Edgar Co., Waverley, Mass.

WANTED—Young, single man for fruit range. Palms and Violet Houses. Wages \$50.00. Reply to E. J. C., Office of HORTICULTURE.

WANTED—Young single man for Greenhouse, who understands grapes. Wages \$35.00 and board. Reply to R. M. C., Office of HORTICULTURE.

WANTED—Young man, 22 to 26, to work in greenhouses; \$55.00 per month. Reply to E. D. B., Office of HORTICULTURE.

WANTED—Young single man, thoroughly experienced, to take charge of greenhouses, gardens, landscape dept., etc. (10 men employed). Wages \$40.00 and board. Reply to C. H., HORTICULTURE Office.

WANTED—Situation as foreman on good commercial place. A good grower of Gardenias, Lorraines, Anaryllis, Roses and Carnations. Twenty years' experience. Address Foreman, care HORTICULTURE, 11 Hamilton Place, Boston.

Lenox, Mass.—Mrs. George Westinghouse, orchid house.
Grand Rapids, Mich.—Cunningham & Scott, one house, 20x150.

SUN DRIED CYPRESS GREENHOUSE MATERIAL IS THE BEST. WRITE FOLEY MFG. CO. 471 W. 22ND ST. CHICAGO FOR FREE CATALOGUE VENTILATING APPARATUS, FITTINGS, HOT-BED SASH. WE MAKE SKETCHES AND ESTIMATES.

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.
FOLEY MANUFACTURING CO.,
471 W. 22d Street, Chicago

STANDARD FLOWER POTS

Packed in small crates, easy to handle

	Price per crate	Price per crate
1500 2 in. pots in crate	\$4.88	\$4.20
1500 2 1/4 " " "	5.25	3.00
1500 2 1/2 " " "	6.00	
2000 3 " " "	5.00	HAND MADE
800 3 1/2 " " "	5.80	48 9 in. pots in crate \$3.60
500 4 " " "	4.50	43 10 " " 4.80
320 5 " " "	4.51	24 11 " " 3.60
144 6 " " "	4.16	24 12 " " 4.80
		19 14 " " 4.80
		6 16 " " 4.50

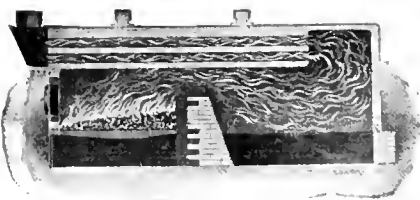
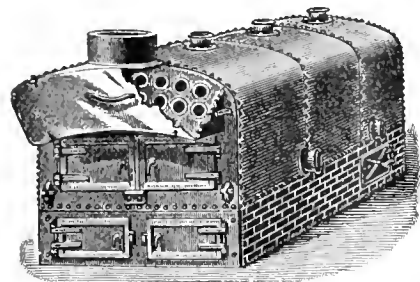
Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases etc. Ten percent. off for cash with order. Address Hilfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

35 Erle Street. CHICAGO.



Boilers made of the best material; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

N. TONAWANDA, N. Y.

TORONTO, ONT.



BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.

117 E. Blackhawk St., CHICAGO

NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.



THIS ROSE HOUSE

shows up the lightness in construction of the U-Bar house in a most convincing manner. See that curved eave line and wide spacing of glass as it shows up above the top bench — its almost like being outdoors.

U-BAR GREENHOUSES
Are the Best Greenhouses Built

because they are the nearest to being outdoors for your plants, and still be thoroughly protected indoors.

WE ARE THE SOLE MAKERS OF
U-BAR GREENHOUSES

PIERSON U-BAR COMPANY

Designers and Builders

U-BAR GREENHOUSES

Metropolitan Bldg., 4th Ave. and 23rd St.
NEW YORK

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE. 74 FRANKLIN ST. BOSTON

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL.

WEATHERED COMPANY

46 MARION ST., NEW YORK

GREENHOUSE BUILDING AND HEATING

Send for Catalogue.

SEND FOR CATALOGUE OF
SCOLLAY HOT WATER
and **STEAM BOILERS**

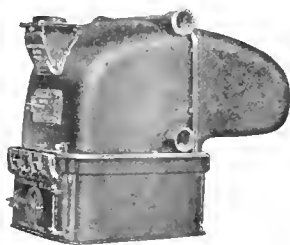
JOHN A. SCOLLAY

73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

TO BUYERS

Patronize our advertisers, they will treat you right

H AND C



The Pith

of this boiler question gets down to the coal question—what does it burn? What heat do you get for the coal you burn? One boiler may have a grate that cuts out the ashes in an "improved" way, and by the same token it will have more ashes to cut out. The more coal you burn, the more the ashes—but do those ashes mean an equivalent in heat? We can prove to you that the Hitchings boiler is the best greenhouse boiler—prove it by what it has proven for others.

HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.

Manufacturers of Heating and Ventilating Apparatus.

1170 Broadway, NEW YORK.

H AND C



THE EVERY WAY PRACTICAL

thing is what you want and what we want you to want—the house with all there is in up-to-dateness and a certainty that it's a *laster*—not only freer from repairs—but *easier* to repair. That's our iron frame greenhouse.

There's just as much good sense in preparing for easy repairs as in freedom from repairs—and quite as much economy. Send for the iron frame greenhouse folder—it's full of good sense and sound tried out facts.

Lord & Burnham Co.

GREENHOUSE DESIGNERS and MANUFACTURERS

1133 BROADWAY, cor. 26th Street, N. Y.
Boston Branch: 819 Tremont Building



MASTICA

(PATENTED)

For Glazing Greenhouses

Manufactured only by

F. O. PIERCE COMPANY

170 Fulton Street, New York

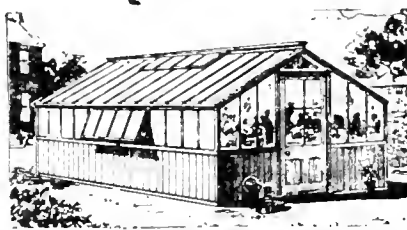
Agencies in all the Principal Cities of the United States and Canada.

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JOSEPH BRECK & SONS

BOSTON, MASS.

DISTRIBUTORS FOR NEW ENGLAND.



"Built the Premier Way"

Greenhouse Reasons

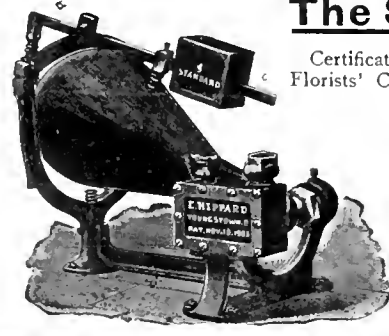
To be profitable they should be practical—to impart a nice appearance to your residence they should be artistic—while as you sometimes want to move them they should be portable.

You will find all these points—and a lot more in Premier Houses. There is sense all the way through. There is experience behind us—that's a reason. Get booklet No. 48.

Chas. H. Manley

Premier Works, St. Johns, Mich.

The Standard Steam Trap



Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

E. HIPPARD, Youngstown, Ohio

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Send your business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active practice. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS

PATENT LAWYERS

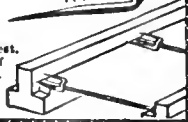
Box 9, National Union Building Washington, D. C.

Holds Glass Firmly

See the Point **PEERLESS**

Glasing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid. **HENRY A. DREER,** 714 Chestnut St., Phila., Pa.

FULL SIZE N^o 2



Standard Flower POTS

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

W. H. ERNEST,

26th and M Streets, WASHINGTON, D. C.

HORTICULTURE

Vol. IV.

JULY 14, 1906

No. 2



DAYTON, THE CONVENTION CITY
Main Street, Looking North.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

JUL 16 1906

WM. HAGEMANN & CO.

Wholesale Importers and Exporters of Bulbs

55 DEY STREET, - - NEW YORK

Sole Importers and Proprietors of "ROYAL GLUSTERS"
the Celebrated Bermuda Harrisii Lily
Finest, Surest and Most Prolific Flowering Lily in the World
"NONE BETTER"

HOTHOUSE GRAPE VINES,

fine strong, two and three year old canes, Black Hamburg, Muscat Alexandria and other varieties

Rose Hill Nurseries,
NEW ROCHELLE, N. Y.

KILLARNEY

The most profitable Rose to date.
Strong, thrifty young plants.

\$10 per 100. \$90 per 1,000

SIEBRECHT & SON
Rose Hill Nursery
NEW ROCHELLE, N. Y.

BAMBOOS

In Pots and Tubs, all sizes, in 20 varieties

J. H. TROY, New Rochelle, N. Y.

Dahlia Roots and Plants

DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc.
ATCO, N. J.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

REMOVAL NOTICE

J. M. Thorburn & Co.

(Late of 36 Cortlandt Street)

Have removed to their large, new 5 story building at

33 BARCLAY STREET
extending through to 38 Park Place

... OUR ...

Wholesale Bulb Catalogue

will be ready next week

Send for it and compare our prices before you order elsewhere. We handle only first size bulbs.

J. M. THORBURN & CO.

33 Barclay St., through to 38 Park Place
NEW YORK

Established 1802

ROSE PLANTS

	Per 100	1000
RICHMOND, 2½-in., fancy stock	5.00	\$50.00
" " 3½-in., extra fancy	9.00	80.00
Beauties, 2½-in., good stock	5.00	45.00
" " 3½-in., strong stock	8.00	80.00
Rosalind Orr English, 2½-in., strong stock	6.00	60.00
Kaiserin, 2½-in., extra fine stock	4.50	40.00
" " 3½-in., extra fine stock	6.50	60.00
Golden Gate, 2½-in., extra fine stock	4.00	35.00
Uncle John, 2½-in., extra fine stock	4.00	35.00
Perle, 2½-in., extra fine stock	5.00	45.00
Sunrise, 2½-in., extra fine stock	5.00	45.00
Flaids, 2½-in., extra fine stock	6.00	55.00
Chatenay, 2½-in., extra fine stock	4.00	35.00
" " 3½-in., extra fine stock	6.00	55.00
Liberty, 4-in. grafts, 300 plants left	9.00	90.00
Kate Moulton, 3½-in.,	25.00	250.00
Cat Back Benched Beauties	4.50	40.00
" " Richmond's	6.00	55.00

Packed in moss for distant shipment.

POEHLMANN BROS. CO.
MORTON GROVE, ILL.

BULBS

HORSESHOE BRAND and PLANTS
Ralph M. Ward & Co.
2 West Broadway, New York

LADY GAY

AND

HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

Catalogue mailed on request.

M. H. WALSH

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HORTICULTURE

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SUPPLEMENT WITH THIS ISSUE

Ilex Wilsoni

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In writing to Advertisers kindly mention Horticulture

Oncidium concolor



During February and March this oncidium flowers with much profusion in England, and the photograph sent is one of some hundreds which was flowering this winter with Messrs. Stanley & Co., orchid importers, Southgate, London.

After the yellow blossoms of the well known *Oncidium varicosum* and *splendidum* are past, this beautiful brilliant colored species succeeds them (very shortly after the latter) and although not so long in the stem, the vivid yellow of its blossoms appearing in the depth of winter, when no other yellow orchid of such usefulness is in flower, makes it most desirable, and valuable for all kinds of decorative work.

Grown suspended as seen in the photograph, its beauty is well displayed at Hackensack, New Jersey, in Mr. C. Moore's collection; there is a well cultivated group of them, and arranged from the roof in pans or baskets, its beauty is much enhanced.

The blossoms are lasting, and although not generally grown by florists, for cutting, its freedom of flowering and easy culture makes it worthy of a place among the commercial varieties of orchids.

A. Demme

The Moth Fight in New England

The summer work in the gypsy and brown-tail moth region differs materially from the winter treatment, as outlined in a recent number of *HORTICULTURE*. Then the men devoted their time to creosoting gypsy moth eggs and cutting and burning brown-tail moth nests. As each town is working out its own salvation, each local

superintendent lays down the summer campaign in his particular section, doing what he thinks will supplement the winter practice to the greatest advantage, banding the trees with burlap or some sticky substance, burning infested brush, spraying, etc. There are several sticky substances on the market for banding trees. The banding is done early in the spring before the caterpillars begin to crawl. The trunks are scraped and a band three inches wide and half an inch thick put around each. Only the trees cleaned previously are so treated, the object being to keep the caterpillars from crawling into the tree from infested shrubbery, stone walls, or wherever they might be.

The object of banding with burlap is to provide a place of concealment for the caterpillars, for after they are partly grown, they crawl down the trunk and hide during the day. Men visit the burlaps once a day and kill all caterpillars found under them.

Where both the burlap and sticky bands are used, the former should be put above the latter, thus protecting against a caterpillar invasion, and trapping those that may be feeding in the tree.

In badly infested regions spraying with arsenate of lead or disparene is extensively practised. The quantity used varies from five to twenty pounds for one hundred gallons of water, the larger dose being required by the older, more resistant caterpillars.

The brown-tail caterpillars are practically through feeding now and many are pupating. The gypsies will continue to feed for a couple of weeks more. Then come the moths to greatly multiply the present members, and the wholesale spreading of the brown-tails, as both the male and female moths fly. The female gypsy moth cannot fly, hence gypsy spreading takes place principally in the caterpillar stage.

The federal government has appropriated \$100,000 for the purpose of fighting the moths but their method will probably consist in a search for some parasite, either fungus or insect, which can be successfully acclimated and distributed. Experimentation in a small way, by Mr. Kirkland in Saugus, has demonstrated the feasibility of such a plan.

R. Z. Adams

Ilex Wilsoni

The beautiful holly figured in the colored supplement which accompanies this number of *HORTICULTURE* is the largest leaved and most striking of all hollies, characterized as the greatest advance among hollies since the introduction of *Ilex Shepherdii*, from which it differs in possessing larger and glossier leaves. It is said to be a natural hybrid, having occurred in the nurseries of Messrs. Fisher, Son, and Sibray, of Handsworth, Yorkshire, England. As to its comparative hardiness, little is known as yet but so fine a subject is well worthy of a trial in those sections of our country where the English hollies are reliable. As a single specimen on the lawn it would be an object of great beauty at any and all seasons of the year.

Importance of Full and Accurate Varietal Descriptions

Read Before the American Steel Trade Association by W. W. Tracy.

Without taking your time to excuse the riding of a hobby or any attempts at rhetorical finish, I will present my ideas on the desirability of more accurate and complete varietal descriptions of garden vegetables. In Bulletin No. 21, Bureau of Plant Industry, Department of Agriculture, we find that American seedsmen, in 1902, offered for sale seed of 327 varieties of tomatoes, 307 varieties of cabbage, 445 varieties of garden beans and proportionate numbers of other species.

Now, it is doubtless true that a proportion, though I think it but a small proportion, of these different sorts exists simply as a matter of commercial expediency; by far a greater part of them exist because some one has found that plants of that type were better suited to some set of conditions and requirements than any sort with which he was acquainted. It is probable that a better acquaintance with sorts already in cultivation would have prevented the naming of many of these stocks as distinct varieties, but after allowing all possible reduction from these causes there still remains a long list of sorts, each with special adaptation to certain conditions and requirements. Are these adaptations of practical importance? I most unhesitatingly answer, yes. In these days of sharp competition, I think not only occasionally, but usually, the financial success or failure in any attempt to grow vegetables for market depends as much upon the use of a good stock of the sort best suited to the conditions as upon any other factor, and this is not mere theory. Let me give a practical illustration of the estimation some hard-headed farmers place upon the use of seed bred to an exact type. In a certain section of New Jersey the money-making crop is early tomatoes, and they are grown to such an extent that from a radius not exceeding five miles they have shipped as much as 15,000 bushels in one day, and the shipments will often average 8,000 bushels for days together. They have tried a great number of sorts, but have settled upon a certain type as that best suited to their needs, and as a rule each farmer selects and saves seeds of that type for his own planting. They occasionally change seed or buy of each other, and the common price for such exchange is fifty cents per ounce, but last winter one of the most successful growers moved to town, and offered his tomato seed, with other things from his farm, at auction. There was nothing at the sale for which there was such lively competition, and the seed was finally sold at \$3.00 an ounce. This price was not paid by a seedsman for a novelty or for stock seed but by a farmer for use in growing tomatoes for the market and for seed of a variety which had been grown in the vicinity for many years. The purchaser had lost

the seed he himself had saved, and said he would rather pay \$5.00 an ounce than run any risk of poor seed. I have been told that some seed of this identical stock was secured and sent to another section of the country and grown in comparison with the sort which growers in that section had found best suited to their conditions and methods, and it was pronounced a worthless sort, the planter losing heavily because of using it for his crop instead of seed of the sorts which had proven adapted to his conditions; this is an indication of the importance of the use of the type adapted to local conditions. I asked a dozen growers in the first named section if they ever bought seed of seedsmen, and they replied, most emphatically, No. Why? Oh! we can't get that we can rely upon to give us plants of the right sort. To further illustrate conditions as they exist, I would report that last spring I visited another section, where it is said that within five miles from the station there were 8,000 acres in early cabbage. Experience has demonstrated the exact type of plant wanted for their conditions. It is difficult, if not impossible, to grow cabbage seed in that section, and the growers depend wholly upon seed from seedsmen. They know quite as well as the tomato growers mentioned the type of plant wanted, and appreciate the importance to them of getting seed certain to develop into plants of that type, but they commonly pay but very little, if any, more than current wholesale price for the seed they use, and the price is a very important if not the sole factor in determining which of a number of reputable seedsmen get the order. Picking out 100 plants which adhere no more closely to the desired type than I know it is perfectly possible to secure from the most carefully grown cabbage seed and which were far less uniform in type than were the tomato plants in most of the fields in the section referred to, I asked the grower what he would agree to pay for seed which produces plants as uniform as those? He replied that if by paying ten times—yes, twenty times—what he paid now, he could get seed which he knew was as uniform as that, he would buy enough for five years and pay cash for it. To the inquiry as to whether he could not get such seed of seedsmen if he was willing to pay for it, he said, emphatically, No, and repeated several instances where seed for which he paid reputable seedsmen a high price, because of its supposed superior quality, proved very little, if any, more uniform than the lower priced seed, and said that one of the best lots of seed he ever had was sold him at so low a price that he was afraid to plant his whole acreage with it until it had been tested. I could give many similar illustrations of the fact that whatever may be the case with the ordinary farmer, experienced growers recognized the value of close adherence to well defined type and are willing to pay for it. How is it with the seed growers and dealers? I have been told by one of our best seed growers that he used the same stock seed to grow

seed of variety A for one reputable seedsman and seed of variety B for another; another seed grower in the same State said that he used the same stock seed to grow seed of the variety B for one seedsman and of variety C for another, yet both said that variety A and variety C were quite distinct; I saw a third seedsman, who declared that B was quite distinct from either A or C. Apparently in seed growing, things which are equal to the same thing are not necessarily equal to each other. In another case, a seed grower received a stock of a new sort to grow for a seedsman, and continued to supply him with that sort for several years. After the second or third year the seedsman reported that his customers complained that the stock was deteriorating. The grower declared that it could not be, as he had taken especial pains in selecting his stock seed, but upon investigations it was discovered that in his selection he had paid no attention to the qualities which made the sort desirable for certain conditions, but had selected to different qualities, and those which would not be likely to be correlated with the desired one. It is true all these illustrations are of comparatively little grown varieties, but do our seed growers agree as to the exact type desirable in the case of even the most important and largely grown sorts? or do our best growers adhere to the same exact type from year to year? The fault is not all with the grower. Often they receive from the seedsman stock seed of a new sort, but can get no description of the exact type wanted, or after selecting to a certain type for several generations they are asked to select to quite a different one. These conditions would result in want of uniformity of type even if each seedsman secured his stock from year to year of but one and the same grower, but he rarely does so, and not only this, but the grower does not always fill orders with the seed grown from his own stock. It is said that there is no need of "sending coales to Newcastle," but it sometimes seems necessary to send sweet corn and onion seed from the West to Central Connecticut and to import cabbage seed into Eastern Long Island.

I have presented my conception of the conditions as they exist. How may they be improved? With all our modern knowledge of the laws of heredity as expressed in Mendelian and other theories and laws, the truth in the homely adage of "like father like son" remains and the corollary that the greater the number of generations of exact similitude, the more fixed and positive it becomes. It is only by rigid adherence for several generations to an exact type that we can produce seed that will be certain to develop into plants of that type. A variation for a single generation in any one characteristic, though it may be a minor one, may and often will so change the balance of influence of different tendencies as to completely change the character of the seed. Often we can only know of an invisible but valuable characteristic by its co-

relation with one, which while easily seen, is of itself of but little importance and does not affect the value of the plant for our uses. For instance, a purple blossom on a plant of extra early pea is of itself of no importance, but is a certain indication of a tendency toward inferior flavor in the green pea. On this account, accurate and detailed descriptions of varieties are of importance; where can we get them? The reply comes at once "from seedsmen's catalogues," but can we? and ought we to expect to do so? Their catalogues are published and distributed at great expense and are issued primarily for the sake of selling the seed they offer. They answer the purpose for which they are designed in proportion as they secure orders for seeds. Will this be measured by the accuracy and completeness of their descriptions? Whatever your answer may be, the answer given by the catalogues themselves is no. Looking through the 1906 catalogues of 125 seedsmen who list Davis Wax Bean, we find that 77 speak of its good quality, 82 speak of the beauty of its pods, 96 speak of its vigor and productiveness of vine, 30 call it stringless and only 7 admit that it is stringy or not of best quality. Now this bean has been in cultivation long enough so that everybody knows of its character and value but I ask if a description which fails to mention the distinctly stringy character of its beautiful pod can be called complete? This is not an exception but a typical case, very rarely is any quality which could be considered is a defect mentioned, while those which are valuable are spoken of in exaggerated terms of praise. If we cannot obtain full descriptions from the catalogues, where should we look for them? It seems to me that it is the duty of any one offering seed of what is claimed as a new sort, to furnish a full and complete description of the varied characteristics, not only of the usable product, but of the plant. He can make whatever claims he chooses as to its desirable qualities, but seedsmen and gardeners should not accept any new sort as such, unless it is accompanied with a description which will enable them to identify it. Often what are simply superior stocks of some old sort are offered under a new name; if this is done, the claim for a name should be accompanied with a statement of in just what respect the strain differs from that of common use. It seems to me that this Association can do much to secure such action by its members and that by doing so it would do much to bring about uniform conditions. But what of old sorts? It seems to me that here there is a field in which the United States Department of Agriculture and our State Experiment Stations can work to great advantage, not so much through the trials aimed simply at determining which sort will give them the largest crop, is of the best quality and the most desirable, for this is often largely determined by varying cultural and commercial conditions, but at formulating complete and accurate descriptions of the exact character of the different varieties, which if accepted and used by seedsmen and growers would result in great uniformity and consequent value in the seed-stocks

in commerce. If our seedsmen could but unite as to the exact type each of the varieties now in cultivation should be and our seed growers use only seed from plants of that exact type for stock seed and continue to do so for five generations, the betterment of conditions for both seedsmen and growers and of the quality of the vegetables in our markets would be greater than has come from the development of new varieties by hybridization or selection for the past twenty-five years. It is not so much new and better sorts that we need as better and truer stocks of those we now have and these can only come through more exact definition of precisely what a plant of any given variety should be.

VEGETABLES FOR EXHIBITION.

(Read June 13th, 1906, before the Morris Co. Gardeners' Society by John Heeremans.)

The culture of vegetables at all times a most interesting study, becomes very much more so when the objective is the exhibition table. As exhibitions at which vegetables figure at all prominently are held principally in the fall I shall confine these few remarks mainly to those varieties that are in season at that time of the year. Now we will say the exhibitor wishes to take a collection of twelve varieties which I consider is ample to test any person's skill. The following I would consider a good selection for a dozen varieties: Celery, leeks, onions, potatoes, carrots, beets, cauliflower, parsnips, turnips, tomatoes, brussels sprouts, lettuce, or, should string beans, peas, sweet corn, or egg plant be available they would give a larger selection.

Now whatever varieties are chosen they should be good types of their respective sorts and not included in the collection because, say it happened to be a poor dish of peas out of season to the exclusion of a good dish of turnips and so on. Personally I do not care much for the squash family as exhibition vegetables. They represent no extra amount of skill in their cultivation. Anyone can grow squash if they have a manure heap. The same applies to some other varieties that do not represent much skill. The different sorts of spinach, including Swiss chard, which I do not suppose one person in a dozen would eat if anything else were available, also the oyster plant (salsify) and Jerusalem artichokes, do not figure very high as exhibition vegetables. You will notice I have placed celery at the head of my list of twelve varieties. There is no vegetable that, to my mind, calls for more skillful cultivation than first-class celery. It should be large, without being pithy, or hollow, have a good sized heart, be well bleached and free from rust and blemishes. A good time to sow seed for the produce to be in good shape late in October is in early May. I prefer to sow in boxes and place in a greenhouse in gentle-heat. When ready prick out into cold frames or anywhere in four or five inches of soil on a hard bottom where water is handy, as they require lots of it. The plants will be ready for the open ground by the middle of June and no opportunity of a showery day or so should be lost in getting them out. If

the weather is at all dry, water must be given in abundance if good results are expected.

Large onions and leeks are a very strong couple of exhibition vegetables and the culture is practically identical except that the leeks require earthing up to blanch them. Onions and leeks cannot be too large for show purposes and to produce large roots very early sowing is indispensable. February is none too soon to sow in heat in a greenhouse. They must be pricked off into boxes when large enough to handle and kept growing on, gradually hardening off and planted out in very rich soil in the garden in May. These plants are very gross feeders and must have very high cultivation to bring them to a high state of perfection.

Potatoes for exhibition should be of medium size, clear in the skin and have shallow eyes. Very large specimens are more than likely to be hollow in the middle. Carrots and parsnips must be large and have very clean skins and uniform tapering roots. Beet roots and turnips should be of medium size inclining to small rather than large, as big specimens of these are useless unless it is for cattle feeding.

Cauliflower (a splendid vegetable but very difficult to get good in this section of the country), should be of medium size with very close and clean white heads. Tomatoes must be of medium size and very round, not corrugated, and should be ripened on the plant. Brussels sprouts, a very telling vegetable when good, should be large and solid, not open and ragged. Lettuce also must be large and very solid. Needless to remark, the whole collection should be presented on the exhibition table as fresh as possible and no pains should be spared to keep them so, for if wilted or stale in any way, it would go strongly against them.

Now as to manner of staging. The collection should be made as artistic as possible, not merely a dish of each kind placed on a bare table in straight lines. This method does not appeal to me at all. Instead a background should be formed of the larger kinds and the smaller grouped in front of them; no receptacles such as dishes, etc., are necessary at all. The whole group should be nicely trimmed off with fresh parsley and it is surprising, with the exercise of a little ingenuity in arrangement, what a beautiful effect can be produced even with a collection of vegetables.

In conclusion I would strongly urge on young gardeners to give more attention to vegetable culture than now perhaps prevails. Gardeners are more equally matched as regards equipment in this line than in the culture of flowers and fruits under glass. No costly greenhouses are necessary to produce in summer and autumn at any rate the most of the species. Good soil and some fertilizer and doing the work that is to be done, at the right time—that is the main point that leads to success. A gardener that cannot produce good vegetables will find himself in a hole with his employer sooner or later as the majority of them like something good to eat as well as something pretty to admire in the way of plants and flowers.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292

WM. J. STEWART, Editor and Manager.

**A new use
for surplus roses**

We read of a new demand for rose petals which has come to light in Covent Garden Market, London, namely for use at weddings in place of the customary confetti with which wedding guests are wont to shower bridal parties. Here is a timely suggestion for our overloaded wholesalers. Get the fashion started by some enterprising retailer and, once introduced, the street fakir—that great boss of the surplus—will be shorn of his power. Growers, in times of glut can send their roses to market in feather-weight dissected shape and thus turn a corner on the greedy express companies. If there should be no sale there is at least the satisfaction of knowing that there has been no expenditure for express on big boxes of heavy material simply that the Greek street dealer may secure the goods for about the amount of the express charges.

**A better distribution
of flowers needed**

It is a fact worthy of note—also one that merits serious consideration—that at the present time when the floral marts in the large centres are overloaded with roses, carnations, and other greenhouse-grown flowers for which no sale can be found, there exists a most awkward scarcity of the material needed for ordinary calls for floral work in many of the smaller communities where no wholesale markets are within convenient reach. A comprehensive study of the situation by the wholesale dealers in the large markets might result in the adoption of some system of distribution which would relieve the congestion at one end and the shortage at the other and thus help toward more regular values and better aggregate returns at such periods for the growers when the sales sheets are added up. There is certainly room for improvement.

**The floral artist
in the exhibition**

In our issue of June 30 we called attention to the regrettable fact that commendable floral arrangements are rarely seen at any public exhibition. Although the people who visit the shows are strongly drawn to this class of exhibits yet it has always been a very difficult matter to induce floral artists of any repute in the larger cities to enter in any open competitive exhibition, they preferring to stay out rather than

take the chance of losing to an obscure competitor. The first notably successful attempt at bringing these gentlemen out and getting them to take an enthusiastic interest in an exhibition was that so effectively carried through at Chicago last fall. The key-note of the success achieved on that occasion was undoubtedly the elimination of all competition for prizes. Once convinced that they would not be called upon to submit their work for the decision of any judges and that the flower-buying public were to be in attendance in large numbers, enterprising retailers were quick to see the business advantage and that they could not afford to stay away. The outcome was a most remarkable display of the modern florists' art, which was easily the most popular feature of the show. Managers of prospective exhibitions can find a suggestive lesson in this example for it seems to have solved satisfactorily the problem of showing the retail florists wherein their business interests may be advanced by active participation in these affairs. The managers of the Chicago enterprise will doubtless be glad to furnish details of the scheme as worked out by them to anyone asking for such.

**Importance of
the Dayton meeting**

As the date for the convention at Dayton draws near, that important annually-recurring event comes more and more prominently to the front as a topic of general and wide-spread interest. Officers and committees of the great national society are taking advantage of the brief lull in business activity to make preparation for the performance of their several official duties, election campaigners, old and young, are bringing out their favorite candidates, bowling enthusiasts are making themselves heard, and the people of the convention city—accustomed to the routine of entertaining large bodies of visitors—are going about their self-imposed task with a thoroughness that is full of alluring promise for their coming guests. It is predicted that this will be a well-attended convention. Let us hope so; but no convention is as well-attended as it should be and consequently the profession at large misses much of the broad benefits that accrue from such meetings when all do their share. There are many hundreds of horticultural craftsmen, located within convenient distance who have never yet attended a national convention who, if induced to come once, would thereafter continue as devoted supporters of the organization and its work. It is to be hoped that the efforts being put forth to secure an unprecedented attendance from the various convenient centres may be successful, especially in the bringing forward of new accessions to the membership list. The bigger the increase the greater the general and individual benefit. Many questions of vital importance are pressing which a united front would help to settle with advantage to all. Let every one who can make it his business to be in attendance so that the policies of the society may be so moulded as to confer the greatest good on the largest number.

HARDY PLANT NOTES.

An improvement over the old fashioned *Ampelopsis virginica* is the variety *Engelmanni*, as it clings more closely and the foliage is not so loose in habit of growth.

Taxus baccata aurea looks very good at this period. It came through last winter better than usual. *Hydrangea radiata* now in flower, bears flat heads of white flowers four and five inches across. It can be distinguished from the others by the light silvery color on the under side of the leaf.

Eleagnus longipes is now ripening its fruit and it makes a very pretty effect.

Spiraea regelianum should be remembered, when a bed of flowering shrubs is desired, as it blooms just at this period when the majority of others are done. Its spikes of red flowers show off to good effect.

Berberis Fremonti, having very light blue foliage, is rather a dwarf grower, and would therefore do well for edging.

An unusual form of *hypericum* is the variety *Moserianum tricolor*. The variegated foliage is very effective. The flower is about the same as the parent, *Moserianum*.

Hedge plants of dwarf habit are often wanted and among the list the dwarf snowball, *Viburnum opulus nana* should receive mention. It is quite slow in growing, but makes a very compact plant.

Anyone desiring to have small evergreens for holiday decoration will do well to dig the plants about the close of August, and prevent them from getting browned by the fall frosts.

It is regrettable that so many plants imported from Europe, come under incorrect and misleading names. Box plants and retinosporas are very much confused, and each year seems to add to the trouble.

The variegated form of the shrubby *Hibiscus syriacus*, though pretty in foliage, has a small dark colored double flower that seldom opens and is not desirable when it does open. A new variegated variety and bearing a very pretty single blue flower will be introduced this season.

Ligustrum Ithota Regelianum is unquestionably the finest privet for a graceful hedge. The writer recalls seeing a hedge that had been trimmed and the new growth allowed to make about six to eight inches. The pretty pendulous habit of these new tips removed the formal look so often present in the common California variety.

A new, but decidedly pretty *Hibiscus syriacus* is the variety *coelestis*. It bears single flowers of a glorious shade of blue with no purple in it, such as nearly all the other dark shaded varieties have.

The dying of so many Kilmarnock willows during the winter, is due to sun scald. If the stem is protected by a wrapping of straw or cloth, better results may be expected.

An evergreen that should interest florists, owing to its adaptability for formal use in boxes and pots, is *Juniperus stricta*. It is very compact and symmetrical, of a pretty glaucous blue color, and somewhat uncommon.

WARREN J. CHANDLER.

During Recess

"Jest and youthful Jolity,
Quips and Cranks and Wanton Wiles,
Nods and Becks and wreathed Smiles,
Sport that wrinkled Care derides,
And Laughter holding both his sides."

Wyndmoor, Pa., was the scene of a spirited baseball game between the Niessen and Burton nines July 7. The ball-yard was near George Burton's greenhouses and that gentleman was the loser thereby to the extent of several panes of glass and a quantity of provender. On the other hand he acquired several bruises and a vast amount of popularity. Score, 14 to 6, in favor of the Niessens.

CALIFORNIA NOTES.

The first of this month the State Promotion Committee reported that "California is promised a bumper crop of barley, a larger than usual crop of hay, a better crop of wheat than for the past two years, and the usual good crops of other farm products, with the exception of several varieties of fruits, and that with these large crops assuring us of plenty of money from now on through the crop year our trade outlook continues brilliant."

California's orange season of 1905-06 is practically at an end. In all the orange-growing territory there are probably not more than 1200 carloads of fruit on the trees or ready for shipment. August 1 probably will see the last carload sent out. Big prices will obtain for the oranges now being held for demand, and it will be in line with the success of the season so far, as it has been a prosperous one for the growers. Although the oranges have been smaller the prices have been better, and the total showing is expected to be ahead of last year. The shipments thus far for the season have amounted to 20,688 carloads of oranges and 2930 carloads of lemons. The total shipments for the citrus season are expected to reach 22,000 cars of oranges and 4000 of lemons.

John Isaac, secretary to State Horticultural Commissioner Ellwood Cooper, announces this week that he has on hand colonies of the parasites for the codlin moth and the parasites for the cottony cushion and the black scales are hatching rapidly. These parasites are for free distribution and may be had by applying by mail to Secretary Isaac. The last colony of the parasite for the brown apricot scale has been sent out.

Charles Stappenback has re-established his flower store at his residence in the Western Addition and is preparing to build a temporary structure at his old stand which was completely crushed by the earthquake and burned two days later. Also Fregosi & Co., formerly in business in Geary street, have opened at McAllister and Fillmore streets, and Podesta & Baldocchi are locating in their new temporary store at Polk and Sutter streets.

Chas. Sim, of Philadelphia sails for the old country July 14th on the S.S. Columbia from New York. He will visit Belfast, Dublin, Liverpool, London, Edinburgh and spend a few weeks at his old home in Kirriemuir, returning September 15th.

SCALES.

June 25, 1906.

To the Editor of HORTICULTURE.

Dear Sir:—I have two bay trees that are infested with scales, and for over one year I have tried in vain to clean them off. Could you tell me of a mixture or something similar to spray the trees and kill the scale for sure?

Yours respectfully,

P. C.

A number of materials are used for spraying scale insects such as lime, salt and sulphur, lime and sulphur, resin washes, kerosene emulsions, and whale oil soap. The first two are the ones extensively used for the San Jose scale.

Any of these are valuable if you want to go to the trouble of preparing them, but as you have only two trees it would hardly be worth while, so I advise you to buy some reliable prepared material such as Goode's Caustic Potash Whale Oil Soap No. 3, Anchor brand soap or Tree Soap, any of which can be procured from any seed house advertising in HORTICULTURE. These are easily dissolved in water at the rate of one pound to four or six gallons of water.

Kerosene emulsion can be used as described in HORTICULTURE, June 6, for black aphid, having the rate one part stock solution to four parts of water instead of one to nine.

Several sprayings at intervals of two weeks are better than one application, as these sprays kill by corrosion and suffocation, and to be effective must touch every insect, something rather hard to accomplish the first time.

R. L. ADAMS.

PERSONAL.

Louis Schmutz of Flatbush, N. Y., sails for Europe on Saturday, July 14.

Hugo Schroeter, of Detroit, was married on June 30 to Miss Aurelia Russell of Newport, R. I.

Phil F. Kessler of 55 West 26th street, New York, will sail on August 11th on a visit to Germany.

Visitors in Boston: D. MacRorie, South Orange, N. J., and A. D. Rose, Montclair, N. J.

J. B. Keller and family of Bay Ridge, Brooklyn, N. Y., arrived last week on their return trip from Egypt.

William Tricker, late superintendent to Percival Roberts at Narberth, Pa., has located at Lansdowne and intends to conduct a landscaping and jobbing business there on his own account.

Frank McMahon, accompanied by his wife and niece, started on Thursday, July 12, on an automobile trip from Seabright, N. J., to the White Mountains. They will be absent two weeks.

OBITUARY.

Mrs. Mary A. E. Reddy, wife of Nicholas Reddy of Fall River, Mass., died on July 3. Beside her husband, three daughters and two sons are left to mourn her loss.

On July 2d, Matthias C. Schillo, junior partner in the Schillo Lumber Company, of Chicago, died suddenly. He is survived by a wife and daughter. Mr. Schillo was but 30 years of age.

NEWS OF THE CLUBS AND SOCIETIES.

PHILADELPHIA CLUB HONORS MR. DICKSON.

Mr. Hugh Dickson of Newtownards, Ireland, the noted rose grower, was the guest of honor at a banquet given by the Florists' Club of Philadelphia at Dooner's Hotel on the 6th inst. Thomas B. Meehan, president of the club, acted as chairman and Robert Craig as toastmaster. Mr. Dickson in returning thanks for the compliment paid him spoke feelingly of the great pleasure it afforded him to again greet his many Philadelphia friends after an interval of twelve years, and commended on the great progress and development made by the horticultural interests in that time. Dr. Robert G. Huey paid an eloquent tribute to the guest of the evening and to the rose, his favorite flower. Wm. E. Gude of Washington responded to the toast of "Our Country" in his usual excellent style. P. Joseph Lynch of the Dingee & Conard Co., gave one of the most stirring addresses of the evening, his subject being "Ireland," an address full of fire and eloquence such as could emanate only from one in love with his subject and gifted with the fervid temperament of the ancient Gaels. Alexander B. Scott of Sharon Hill, to whose keen insight and business enthusiasm we owe much of the popularity of the Newtownards roses in this country, spoke very interestingly of the many weeks he spent among the new roses at Newtownards last summer. His remarks were of more than passing value and we hope to give them in full at an early date. Among others who spoke were William K. Harris, Antoine Wintzer, Jno. Westcott, Samuel S. Pennock, Edward H. Flood, Adolph Farenwald, Dr. Tull, Henry F. Michell, Jno. W. Dunham, Robert Kift and G. C. Watson. A pleasing feature of the occasion was the singing of the "Brave old Duke of York" by Edwin Lonsdale as was also the rendering of several Irish melodies by Edward Dooner including "Oft In the Stilly Night," "Kilkenny" and "Killarney"—the latter especially being very appropriate and much appreciated. The singing of "Auld lang syne" by the company brought to a close five hours of the happiest commingling of good fare and good fellowship—an old accustomed feast intellectual and gastronomic such as none of those present will soon forget. The table decorations were the contribution of Mr. George Craig.

OTTAWA HORTICULTURAL SOCIETY.

The June meeting of this society was held in St. John's hall on the 26th, and the floral display surpassed all previous efforts. Among the prize winners W. G. Black and J. McGrady were close rivals on roses; W. H. Snelling, H. Bayes, G. A. White, R. B. Whyte, R. Currie, secured the prizes on peonies. W. T. Macoun spoke on the best perennial for Ottawa gardens, and R. B. Whyte gave a talk on the Herbert strawberry, a new one which he has originated.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Paul Niehoff, Leighton, Pa., submits for registration rose Aurora: seedling from Bon Silene x Souvenir du President Carnot. Flowers large and full. Color light pink with a deeper shading in the centre. Growth very strong. Foliage dark green. Stems 4 to 5 feet long. Very prolific with no tendency to go dormant during winter.

This is the rose which Mr. Niehoff recently exhibited under the name of Columbia. On being informed that another rose had already been registered with the S. A. F. as Columbia he withdrew his claim and the rose will be disseminated as Aurora.

WM. J. STEWART, Secretary.

COLUMBUS FLORISTS' CLUB.

The regular monthly meeting of this club was held Monday evening, July 2, in Iroquois Hall. President Stephens and secretary McKellar were in charge of the meeting; the attendance was the largest of the season. It was a gala night for those present; the entertainment committee, composed of Messrs. Bauman, Reichart, and McKellar, had not only arranged a smoker but had also provided a most acceptable lunch for the hot night it was. The members enjoyed themselves greatly and it was a very late hour when the meeting adjourned. The most important matter of the evening was the vote to hold the annual picnic next Thursday, July 12 at Buckeye Lake, a distance of some thirty miles from Columbus. The outing committee, of which Messrs. McKellar, Metzmaier, Reichart, Bauman, and Curry are members, will arrange a program consisting of sports of all kinds. It is expected that some eighty to a hundred will take part in what will be an old-fashioned basket picnic. As many of the members will attend the convention, it was deemed advisable to have the picnic early so it could in no way interfere with the Dayton trip. It looks now as if some thirty or forty of the craft here would attend.

ELBERON (N. J.) HORTICULTURAL SOCIETY.

A meeting of this society was held on Monday, July 2, president W. D. Robertson in the chair, with a good attendance of members. Some fine exhibits were shown, notably a collection of cannas by A. Bauer, which was awarded a certificate of merit. Collections of cut flowers were shown by H. Hall, Ben Wycoff, and A. Bauer. W. D. Robertson exhibited a vase of chrysanthemum maximum. The prize of the evening which was awarded by Mr. Kennedy of Red Bank, for a collection of vegetables, was won by F. Dettlinger, J. Kennedy and A. Greib exhibited vegetables.

This society holds its first flower show on July 13 and 14

GEORGE MASSON, Secretary.

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting of the New Jersey Floricultural Society was held on July 6. Letters to and from the United States Express Co., and a paper on the Dahlia, by Walter Gray of Maplewood, N. J., were read. In the competitive floral display, high points were awarded Lager & Hurrell for a vanda and two Cattleya Gaskelliana, and William Barr, Arthur Bodwell, gardener, for Cattleya gigas; while among the flowers for exhibition Julius Roehrs Company were awarded a certificate of merit for Dendrobium Phalenopsis Schroederianum and Lager & Hurrell, a first class certificate for Vanda Miss A. Joaquin, the latter being exhibited for the first time. A specimen hydrangea with 200 blooms from John Crosby Brown, Peter Duff, gardener, two Ananassa var. from Wm. Barr, a specimen fern, Scottii, from the Colgates, William Deal, gardener, attracted attention. The tables were filled with fruits, vegetables and herbaceous plants from the well known neighboring estates. JOSEPH B. DAVIS.

WASHINGTON FLORISTS' CLUB.

The chairman of the Outing Committee of the Washington Florists' Club would like to have all of the return postals in by July 20th in order to make arrangements for the banquet. Please state how many friends you will bring. Tickets for the banquet can be procured at any of the retail stores. There is a good time in store, so don't fail to be present. Charles McCauley, Secretary.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The first in the series of Saturday exhibitions was held at Horticultural Hall, Boston, on July 7. Hardy roses, Kaempfer's iris, campanulas, delphiniums, herbaceous flowers in variety and orchids were shown in excellent form by many contributors. Duncan Finlayson was awarded a certificate of merit for superior cultivation of Dendrobium thyrsiflorum, honorable mention was given Mrs. Frederick Ayer for marguerite Queen Alexandra and a vote of thanks was given the Boston Park Department for a display of the Farquhar rose, exhibited by J. W. Duncan. There was an exceptionally fine showing of small fruits and choice vegetables. The display of children's garden products attracted much attention.

CLUB AND SOCIETY NOTES.

An exhibition of annuals and perennials will be held by the Lenox Horticultural Society (Mass.) on August 15.

The Retail Florists' Association of Milwaukee, Wis., was organized on June 29 with the following officers: President, Mrs. F. B. Davis; vice-president, Wm. Edlefsen; secretary, A. B. Loufbourou; treasurer, Mrs. Ida Baumgarten. In connection with the business meeting a banquet was held at the Republican House.

CONVENTION TOPICS.

From New York to Dayton.

The transportation committee of the New York Florists' Club announces that the New York Central has been selected as the official route from New York to Dayton. The club delegation will go on one or more special cars on the train known as the Southwestern Limited, leaving Grand Central station at 2.04 P. M. Monday, August 20. Due Albany 5.04, Utica 7.09, Syracuse 8.20, Rochester 9.57, Buffalo 11.37; leaving Buffalo 10.52 P. M. central time, Cleveland 3.15 A. M. and arriving at Dayton at 8.55 A. M., Tuesday morning. Those who wish to accompany the New York party should apply for reservation on the special car, to F. H. Traendly, chairman transportation committee, 44 West 28th street, New York. Other members of the committee are J. B. Nugent, Jr., and Walter F. Sheridan. New England parties are invited to accompany this delegation. Connecting trains leave Boston for Albany at 10.15 and 10.45 A. M., the latter being Pullman cars only. Apply to Mr. Traendly as above for accommodations from Albany in special car

In the Convention City.

All local arrangements are progressing satisfactorily. Every committee has been attending to duties and each individual is alive to his responsibility. The report of the superintendent of exhibitions makes a good showing. Some of the larger firms have done nobly but we regret that the large wholesale flower houses that should take advertising signs have not so far responded. Refreshing was the letter of Bassett & Washburn with a check for \$50 for a sign and the statement that it is every florist's duty to help this convention along. Only a few more of such firms and the local club will not have to worry about how to make both ends meet. All concessions are given free of charge. Even the souvenir program was left to the private enterprise of J. Austin Shaw and Harry M. Altick, so nothing is coming from these sources. It is our desire to make this the banner convention, but we must have the co-operation of all exhibitors, and advertisers must come forward with a will becoming such a country as ours. This is a national affair and not only for the benefit of the trade but also for the education of the masses.

So far nothing is heard of landscape gardeners' plans. The Dayton Florists' Club will see that liberal prizes are offered for such work. Furthermore there is need of electric signs of leading firms on the outside grounds. Such can be offered at reasonable cost. Wake up, gentlemen, this is a National Convention. All eyes are centered for the time being on Dayton, Ohio.

Before placing your order,
Inquire for our figures on

BULBS.
JAMES VICK'S SONS,
Rochester, N. Y.

Cabbage Worms

For Pamphlet write to Fishkill-on-Hudson, N. Y. Sold by Seedsmen

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MICHELL'S GIANT EXHIBITION MIXTURE—For size of bloom, length of stem, rich coloring and distinct markings, this strain cannot be excelled. Has been awarded first prize wherever exhibited. Price, trade pkt., 50c.; 75c. per 1/4 oz.; per oz. \$5.00.

Asparagus Plumosus Nanus
New Crop—Greenhouse Grown

100 Seeds	60c.	1000 Seeds	\$ 4.00
500 "	\$2.25	5000 "	19.00
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Christmas Flowering**

SWEET PEA SEED

Christmas Pink and Florence Denzer.
pure white, will be ready August 1st.

Those two well-known varieties are raised by over 2000 florists all over the world.—Here is one, out of many letters received:

Dear Sir: My sweet peas, which I raised from your seed, received the highest award at the Carnation Exhibit in Boston, being over 18 inches long.

JOHN T. GALE, Tewksbury, Mass.

Price 1-4 lb. 75c.; per lb. \$2.00
MAILED FREE

New Christmas Flowering Hybrids, 20 to 30 colors, mostly blue, salmon, purple, lavender, in mixtures; also Mrs. Edie Wild, carnine, separate color. 1 Trade pkt. \$1.00, 5 Trade pkts. \$4.00; not more than 5 pkts. taken in order to each customer just now. Those new hybrids are just as free bloomers as Christmas Pink and Florence Denzer, some much larger, and received first class Certificate of Merit by the Mass. Horticultural Society, Boston, March 24.

All seed originated with me is sold in my original sealed pkts., with cultural direction, to the growers, but none for seedsmen for propagating

Orders filled strictly in rotation.

ANT. C. ZVOLANEK
Bound Brook, N. Jersey

Killed by lightly dusting with

HAMMOND'S SLUG SHOT

**FARQUHAR'S
GRASS SEED
MIXTURES**

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Hardiness, Purity and Permanency

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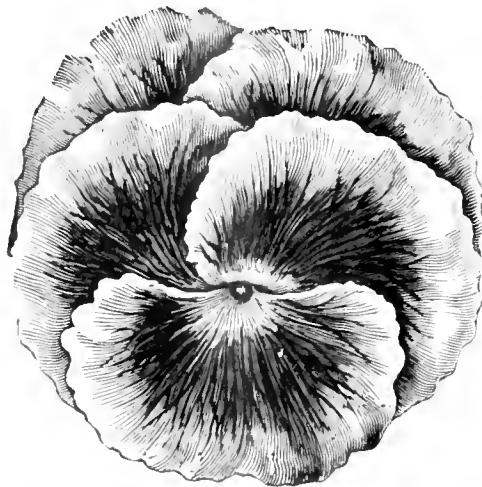
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NEW CROP JOHNSON'S KINGLY COLLECTION OF Prize-Winner PANSIES



ONE OF OUR KINGLY PANSIES.

You owe it to yourself, to your business, to the whole country to show the world what our peerless art is doing for mankind.
DAYTON FLORISTS' CLUB

MICE-PROOF SEED CASES.

Within the last few years rapid advancement in the care of stock has been made by seedsmen. Keeping the seeds in the original packages or bags as many did, frequently led to mixture and consequent trouble. The seedsmen of to-day has found that money invested in up-to-date fixtures brings and holds his trade and pays him good dividends. The Mice-Proof Seed Cases made by Heller & Co. of Montpelier, Ohio, are the most perfect and practical cases ever offered to the trade. Seedsmen in this country and Europe indorse them highly. HORTICULTURE'S readers who, during the dull season, are wondering how they can improve the appearance of their store and increase their business next season, should send for the catalog of this firm.

The Johnson Seed Co., of Philadelphia, have their new electric elevator installed, also their new set of flower seed fixtures. Business since this new firm started is reported to be beyond all their expectations. Advance work on fall catalogues is now well in hand. Mr. Sherry reports that new freesia and oxalis bulbs are in and moving off nicely. New crop pansy seed is in good demand.

FOR SALE

THREE MAGNIFICENT PALMS
(LATANIA BORBONICA)
13 Feet High and 13 feet wide
Reason for selling, no place to store. Apply,
I. T. BURDEN, NEWPORT, R. I.

FANCY SEED
Of my own growing—crop of 1906

UNSURPASSED MIXTURE.	1/2 oz.	\$3.00
PARISIAN MAJESTY, imported	1.00	3.00
MASTERPIECE, fringed edge.	1.00	3.00
DANISH EXHIBITION, do	1.00	3.00
GIGANT MAJESTY, extra fine, do	1.50	5.50

FRANCIS BRILL, HEMPSTEAD, (L.I.) N.Y.

Never has a strain of pansy given more general satisfaction than has our "Kingly Collection of Giant Pansies." It is absolutely unrivaled in range of magnificent colors, size and substance, and no expense has been spared to bring it up to its present high standard of excellence. Half trade packet (1000 seeds), 30c. Trade packet packet (2000 seeds), 50c.; 5000 seeds, \$1.00; per oz., \$5.00.

	Per large Tr.Pkt. (2000 seeds)	Per Oz.
Giant Adonis, beautiful light blue.....	25c.	\$1.50
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Black.....	25c.	1.25
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Trimardean, choice mixed.....	25c.	1.50
Giant Fire King, fiery red and golden yellow.....	25c.	1.50
Giant Mme. Perret (grown by Lucien Perret, the introducer), a magnificent giant strain of rare excellence, very early, vigorous and rich combination of colors.....	40c.	2.50
Giant Lord Beaconsfield, purple, white petals.....	25c.	1.25
Giant Yellow with dark eye, fine.....	25c.	1.50
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Bride, Bridesmaid, Perle, Golden Gate and Ivory, extra strong, well rooted stock from 3 inch. \$5 per 100, \$45 per 1000. Best quality, careful packing and prompt service.

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Boston Ferns, Fine Plants

5-in. pots 35c.
6-in. pots 50c.
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Immediate delivery. Cash with order.

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MYRTLE

for cemetery and park purposes under trees and on banks where nothing else will grow. Field grown two seasons, extra large, 175 to 200 clumps with all soil shaken off will fill a barrel. Per 100, \$6.00; per 1000, \$55.00.

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Queen Victoria (the cold storage flower) \$9.00 per 100. Festiva Maxima, \$9.00 per 100. Fragrans (the bloom producer), \$6.00 per 100. For 1000 rates or other varieties, write.

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All kinds of Vegetable Plants. Best Plants, Lowest Prices. Can ship direct by all express companies insuring low express rates. Write for Prices. Send list of your needs in Vegetable Plants and we will give you special low prices.

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Zirngiebel's Prize Pansy Seeds in trade packages, \$1.00 each. Giant Market, 2000 seeds; Giant Fancy, 600 seeds. Full directions with each package.

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NOW READY FOR DELIVERY

Propagated strictly from single leaf; this method gives much better results than from cuttings. \$16.00 per 100, \$140.00 per 1000; 4 in. pots, \$40.00 per 100.
Adiantum Farleyense, Fine Specimens, \$18.00 to \$24.00 per doz.; 1 3-4 in. pots, \$8.00 per 100; 2 1-2 in. pots, \$16.00 per 100.
Pandanus Veitchii, 50c., \$1.00, \$1.50 and \$2.50 each. Good value guaranteed. Cash with order from unknown correspondents.

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Bostons and Scotti

8000 6 in. Bostons at 40c.
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Ten thousand 2 1/2 in. Plumosus Nanus at \$2.50 per 100; easily worth \$3.50.

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Just received in fine condition a large consignment of Palms, Araucarias and other foliage plants.
We also have to offer some strong bushy Ferns for Dishes in variety; also Pandanus, Dracenas, Marantas, Crotons and Bedding Plants.
Wholesale Price List on application.

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2 1-4 in., \$25 per 100

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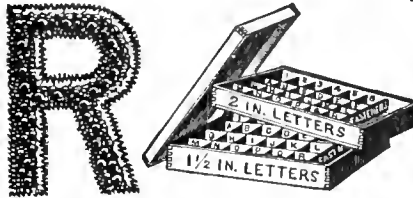
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Glaucia, 6-7 in., \$1.00, \$1.25, \$1.50 each.
Kentia Forsteriana and Belmoreana, 6-in., 30 to 40 in. high, 4 years old, \$1.00, \$1.25 to \$1.50; made up, \$2.00 each.

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Sweet Peas.

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO July 10	ST. LOUIS July 9	PHILA. July 9	BOSTON July 12
ROSES				
Am. Beauty and Edgely Fan. & Sp.	12.00 to 15.00	15.00 to 20.00	20.00 to 25.00	8.00 to 20.00
" Extra.....	8.00 to 10.00	10.00 to 12.50	12.00 to 15.00	6.00 to 8.00
" No. 1.....	4.00 to 6.00	6.00 to 8.00	8.00 to 10.00	4.00 to 6.00
" Lower grades.....	2.00 to 3.00	3.00 to 5.00	3.00 to 5.00	.50 to 2.00
Bride & "Maid—Fan. & Sp.....	5.00 to 6.00	4.00 to 5.00	6.00 to	3.00 to 4.00
" Extra.....	3.00 to 4.00	2.00 to 3.00	4.00 to 5.00	1.00 to 2.00
" No. 1 and Lower gr.....	2.00 to 2.50	..... to	2.00 to 3.00	.35 to 1.00
Liberty, Fancy.....	4.00 to 6.00	..... to	8.00 to 10.00	4.00 to 8.00
" Ordinary.....	2.00 to 3.00	..... to	3.00 to 5.00	.50 to 3.00
Richmond, Fancy.....	4.00 to 6.00	4.00 to 5.00	..... to	4.00 to 8.00
" Ordinary.....	2.00 to 3.00	2.00 to 3.00	..... to .....	.50 to 3.00
Golden Gate, Chatenay, Fancy.....	4.00 to 6.00	..... to .....	..... to	4.00 to 8.00
" Ordinary.....	2.00 to 3.00	..... to .....	..... to .....	.50 to 1.00
Kaiserin, Carnot, Fancy.....	..... to	4.00 to 6.00	6.00 to 8.00	4.00 to 8.00
" Ordinary.....	..... to	2.00 to 4.00	3.00 to 5.00	.50 to 3.00
CARNATIONS				
Fancy.....	1.00 to 1.50	..... to 1.50	1.50 to 2.00	.75 to 1.00
Ordinary.....	.50 to .75	..... to 1.00	.75 to 1.00	.35 to .75
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to .....	..... to	30.00 to 50.00
Lilies.....	6.00 to 8.00	..... to	12.00 to	5.00 to 8.00
Callas.....	..... to .....	..... to .....	..... to .....	..... to
Lily of the Valley.....	2.00 to 4.00	..... to	2.00 to 4.00	2.00 to 4.00
Sweet Peas.....	..... to	1.00 to 1.15	.50 to .....	.25 to .35
Mignonette.....	..... to .....	..... to .....	..... to .....	..... to 1.00
Adiantum Cuneatum.....	..... to .....	..... to	1.00 to .....	.75 to 1.00
" Crownatum.....	.50 to .75	..... to .....	..... to .....	..... to 1.50
Smilax.....	10.00 to 15.00	..... to 15.00	15.00 to	12.00 to 16.00
Asparagus Plumosus, strings.....	20.00 to 25.00	25.00 to 50.00	35.00 to 50.00 to 50.00
" " & Sprengeri bunches	20.00 to 25.00	25.00 to 50.00	35.00 to 50.00	20.00 to 35.00

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Roses and
Carnations
A Speciality.....

WHOLESALE
GROWER of CUT FLOWERS

Cut Flower Market Reports

BOSTON Flowers are fewer in the wholesale markets and the situation shows a slight improvement in consequence. The demand is very light, however, and there is an abundance of everything needed. Small roses are hard to get rid of at any price, but the better grades of Beauty, Kaiserin and Carnot find a more or less steady call. Sweet peas of the indoor crop are about finished up and the outdoor bloom is not yet noticeable. Carnations are cheap and of inferior quality. Outdoor candidum lilies are selling at from \$1 to \$2 per hundred.

Summer dullness was witnessed the past week. **BUFFALO** Cut flower stock has suffered all along the line in values and there is little prospect of recovery for a week at least. Carnations, roses and sweet peas were a drug and could not be disposed of at any price, there being no demand. Beauties have fallen in quality together with Brides and Bridesmaids. Carnot, Liberty and Kaiserin are of good quality but have not been plentiful; some good out-door iris have been seen and sell well. Candidum lilies were on for a few days and moved freely. Longiflorum of good quality was received. Indoor gladioli were on the list with no special demand; lily of the valley, swainsona and other stock were plentiful. It was a case of the wholesaler carrying all the stock and the retailer buying only what he needed.

We have settled to a summer basis as regards trade, there are the usual few scattering orders, and a little something doing all the time—that about describes how things are. As a whole good stock is scarce; roses especially are poor and small. There are no good American Beauties to be had; all there are have short stems; the same is true of Kaiserin and Chateau. Sweet peas have had a good run, but now the stems are getting short and the trade seems to tire of them with the result that they go hard and very cheap. Carnations still continue in enormous supply and sell not over rapid at a minimum price. Collections are very prompt, more so than for a long time; in fact, many of the craft are surprised at the quickness with which their customers send in the checks. Outdoor stuff is looking fine.

LOUISVILLE Business conditions remained very good and stock in general was in fair supply. Carnations and roses were poor in quality, with the supply and demand about equal. Lilies and sweet peas continued fairly good and were called for to some extent. There was an abundance of other stock, but it moved slowly.

Although there is even less business being done this week than last week, conditions are more comfortable because daily receipts have fallen off heavily and the stock in sight is very light. It is also very inferior as to quality. This applies to practically all roses, carnations, sweet peas, etc. Lily of the valley is excellent as to quality. Cattleyas are abundant, and selling low with the ex-

ception of *Cattleya gigas*, which commands the highest quoted price and is well worth it.

The market was rather featureless last week and business only fair. The **PHILADELPHIA** Fourth is about the only day the florist can really call a holiday. All the other festive occasions find him working like go it man go it bear. The hot weather also had an effect but as it cooled off on the last three days things brisked up considerably. Many carnation growers are now replanting which curtails the cut. Roses and carnations are if anything poorer than when last reported. Cattleyas are about done. A good many outdoor subjects are in evidence. Anrums are welcome. There are lots of phlox sprays, bunched achillea and feverfew. The first of the dahlias are in and water lilies, rudbeckias, bluets, and gaillardia are still plentiful. The most refreshing summer windows are those with tanks of water lilies, flanked by gold fish aquariums, with a back ground of araucarias and rubber plants—with a few inexpensive touches of color interspersed. A cheerful note is given to some of the stores by a few cages of Hartz Mountain canaries.

SOME REMARKS ABOUT ROSES.

(Alexander R. Scott, at Dickson Banquet, Philadelphia, June 6th, 1906.)

Mr. Chairman and Gentlemen: I have taken the liberty of changing the subject assigned to me this evening from "Ireland—The Gem of the Ocean" to "Newtownards—The Gem of Ireland," for from this little garden spot have been raised and sent out all of Messrs. Alexander Dickson & Sons' Irish roses.

Many of the members of our Philadelphia Florists' Club that are present this evening will recollect Mr. Hugh Dickson's last visit ten years ago, and you will remember with how much force and spirit he introduced Alexander Dickson & Sons' Irish roses to American florists, and how well they were received. Most of the roses at that time were hybrid perpetuals, and the demand was largely for Ulrich Brunner, Rodocanachi, Magna Charta, and other hybrid perpetuals that could be forced for winter blooming. I think it would be well to note at this time the great advance in the raising of new roses that Messrs. Alexander Dickson & Sons have made in the last ten years. The hybridizers of the firm, Mr. Alexander Dickson and Mr. George Dickson Jr., were among the first to realize that the hybrid tea rose was the rose of the future, and that the great rose-loving public wanted hardy ever-blooming roses, rather than hybrid perpetuals that flower but once, with an occasional flower in the autumn. During the past ten years, of 66 new roses introduced by them, 43 have been of this class, and 19 have received gold medals from the National Rose Society. Of this number we in America are very thankful for two of them—Killarney, introduced in 1898, and Liberty in 1900.

Last summer I visited Newtownards and spent two weeks among 7000 seedling hybrid tea roses. I do not think there is a man here tonight who would

not agree with me that this little patch of four or five acres during the month of July is the most interesting spot in the world to rose growers; in fact, it is a Mecca for rose growers, both amateur and professional.

Two things I was impressed with very forcibly: one was the vast amount of labor and care in the production of these seedlings; not one of these 7000 varieties were chance seedlings, and I found out that for the past 25 years they have been keeping a record of every cross they make, with notes of the result of that cross. Since they have raised so many good things themselves they have for the past few years confined their crossing and hybridization to roses of their own raising, and the result is shown in the varieties I inspected last summer. The other thing that impressed me is the care with which they select their eyes for budding. I had often wondered why it was that the Dickson roses had such a remarkable vitality, and while they do not appear to be stronger in growth than selected stock from other sources, they invariably give larger and finer flowers a year or two after planting. I found last summer that the eyes put on in their vast establishment were selected by members of the firm; a boy generally waited on them while they were cutting the flowering wood of the plant; with their knife they cut out all the flat or poorer eyes, and only the sound plump eyes went to the budders. They believe in the survival of the fittest, and they have found by experience that a constant selection of the best and plumpest eyes from flowering wood only, will keep up their standard to its present high mark.

In their seedling roses I was of course very much interested in the varieties in bloom that I was absolutely sure would be winners for winter forcing in America; I would cut a bloom and take it to my room for its keeping qualities; I would then examine it in the field the following day, and would find that it had developed something that would not suit, and would have to be discarded. One variety that I was particularly impressed with was a strong growing variety which flowered in the open ground with 3 ft. stems, and the flowers were even brighter and more velvety than Liberty; I thought that if this acted in America as it did in Ireland, we would have a crimson American Beauty. I received four plants in October, and they all grew; they grew so well that by the first of March they had attained a height of 17 feet without a flower, and they have not flowered yet. I brought over with me 30 varieties, and have them now growing at my nurseries; several of these are very promising, but my faith is in two sterling varieties; one is a yellow with petals larger than Killarney, and the other is a light pink with a rosy centre. I hope I may have these two varieties in good shape for exhibition next year.

In hardy everblooming roses for outside culture they have the grandest collection I have ever seen; they have almost every shade of color, many of them having the Killarney type of growth. I only hope the time will come very shortly when they will get stock enough to introduce them to general cultivation.

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send your flowers to
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Telephone 2921 Madison Square.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending July 7 1906	First Half of Week beginning July 9 1906		Last Half of Week ending July 7 1906	First Half of Week beginning July 9 1906
Roses			Carnations, Fancy	1.50 to 2.00	1.00 to 2.00
Am. Beauty and Edgeley fan and sp.	12.00 to 20.00	12.00 to 20.00	Carnations, Ordinary.....	.35 to .75	.35 to .75
" extra.....	5.00 to 10.00	5.00 to 10.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
" No. 1.....	3.00 to 5.00	3.00 to 5.00	Lilica	4.00 to 5.00	4.00 to 5.00
" Lower grades.....	.50 to 2.00	.50 to 2.00	Callas.....	..... to .....	..... to
Bride & 'Maid, fan and sp.	3.00 to 4.00	3.00 to 5.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
" extra.....	2.00 to 3.00	1.00 to 2.00	Paeonies.....	..... to .....	..... to
" No. 1 and lower grades.....	.50 to 1.00	.50 to 1.00	Sweet Peas, bunches	1.00 to 4.00	1.00 to 4.00
Liberty, fancy.....	6.00 to 8.00	6.00 to 8.00	Pignonette.....	.50 to 1.00	.50 to 1.00
" ordinary.....	.50 to 4.00	.50 to 4.00	Adiantum Cuneatum.....	..... to .50	..... to .50
Richmond, fancy.....	6.00 to 8.00	6.00 to 8.00	" Croweanum.....	..... to 1.50	..... to 1.50
" ordinary.....	.50 to 4.00	.50 to 4.00	Smilax	5.00 to 8.00	5.00 to 8.00
Golden Gate, Chateau, fancy... ..	3.00 to 6.00	3.00 to 6.00	Asparagus Plumosa.....	..... to 25.00	..... to 25.00
" " ordinary.....	2.00 to 3.00	2.00 to 3.00	" " & Sprenger, bunches	..... to .....	..... to
Kaiserin, Carnot, fancy.....	6.00 to 8.00	6.00 to 8.00	Snaptadragon to to
" " ordinary.....	.50 to 4.00	.50 to 4.00			

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	CINCINNATI July 4	DETROIT July 3	BUFFALO July 9	PITTSBURG June 26
ROSES				
Am. Beauty and Edgely, fan and sp.	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
" extra.....	15.00 to 20.00	12.00 to 15.00	12.00 to 20.00	12.00 to 15.00
" No. 1.....	10.00 to 12.50	10.00 to 15.00	5.00 to 12.00	6.00 to 8.00
" Lower grades.....	5.00 to 8.00	5.00 to 8.00	3.00 to 5.00	2.00 to 3.00
Bride and Maid, fan, and sp.....	8.00 to 8.00	6.00 to 8.00	6.00 to 7.00	..... to 8.00
" extra.....	5.00 to 6.00	..... to 6.00	5.00 to 6.00	..... to 6.00
" No. 1 and Lower gr.....	2.00 to 4.00	3.00 to 4.00	3.00 to 5.00	2.00 to 4.00
Liberty, fancy.....	..... to 8.00	6.00 to 8.00	6.00 to 8.00	..... to
" Ordinary.....	3.00 to 5.00	3.00 to 4.00	2.00 to 6.00	..... to
Richmond, Fancy.....	..... to	6.00 to 8.00	6.00 to 8.00	8.00 to 12.00
" Ordinary.....	..... to .....	..... to 4.00	2.00 to 6.00	4.00 to 6.00
Golden Gate, Chatenay, Fancy.....	..... to 6.00	..... to 6.00	..... to	3.00 to 10.00
" Ordinary.....	2.00 to 4.00	3.00 to 4.00	..... to	4.00 to 6.00
Kaiserin, Carnot, Fancy.....	..... to .....	..... to 6.00	6.00 to 8.00	8.00 to 10.00
" Ordinary.....	..... to .....	..... to 4.00	3.00 to 5.00	4.00 to 6.00
CARNATIONS				
Fancy.....	..... to 3.00	..... to 1.50	2.00 to 2.50	2.00 to 3.00
Ordinary.....	1.00 to 2.00	.50 to 2.00	1.00 to 2.00	.75 to 1.00
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to .....	..... to .....	..... to
Lilies.....	..... to .....	..... to 15.00	10.00 to 12.00	15.00 to 18.00
Callas.....	..... to .....	..... to .....	..... to .....	..... to
Lily of the Valley.....	..... to	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Sweet Peas.....	.25 to .50	.30 to .50	.20 to .50	.25 to .75
Mignonette.....	..... to .....	..... to	1.00 to 1.50	..... to
Adiantum.....	..... to 1.00	..... to .....	.50 to 1.00	..... to
" Cuneatum.....	..... to .....	..... to	1.00 to 1.50	1.25 to 1.50
" Croweanum.....	..... to .....	..... to 12.50	..... to 20.00	12.00 to 15.00
Smilax.....	..... to	30.00 to 50.00	..... to 50.00	25.00 to 50.00
Asparagus Plumosus, strings.....	40.00 to 50.00	20.00 to 40.00	25.00 to 50.00	30.00 to 50.00
" & Sprenger, bunches.....	..... to 55.00	..... to 40.00	..... to 50.00	..... to 50.00
Gladiolus.....	3.00 to 5.00	..... to .....	..... to .....	..... to 6.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - - BOSTON

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Ready Reference Guide on pages 802
to 805.

The KERVAN CO., 20 WEST 27th ST., N. Y.

WHOLESALE DEALERS
Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothar, Ferns and Mosses. All Decorating Evergreens.

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Asparagus Plumosus, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kastling, 385 Ellcott St., Buffalo, N. Y.

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Jerusalem cherries, seedlings, 25c. per 100; 2-12-in. pots, \$3.00 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

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Chrysanthemums, out of 2-12-in. pots, good strong stock. Write for varieties and prices. Pittsburg Rose & Carnation Co., Gibsonia, Pa.

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SEEDLING FERNS IN FLATS, now ready. Flats contain over 100 clumps which can be divided, ready now for 2-12 in. pots, in following varieties: Aspidium Tsussumense, Cytomium Falcatum, Pteris Crotica alba Lurata, Nana Compacta, Magnifica, Cristata, Adiantoides, Winstetii, Mayil, Serrulata, Laetrea Variegata, etc. Prices \$2.00 per flat, 20 or more flats at \$1.75. Cash with order from unknown parties. McIntosh & Co., 17 Murray St., New York City.

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?

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Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' FERTILIZER.

A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address J. W. Barwell, Blatchford's Calf Meal, Animal and Poultry Foods, Fertilizers, Karbo Dip, Seeds, etc., Waukegan, Ill. Established at Leicester, England, in 1800.

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Siggers & Siggers, Washington, D. C. Patents, Trade Marks, and Copyrights.

25 years' active practice.

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PEONIES.

Fine collection of Best Peonies. Complete Peony and Phlox Manuals, 25 cents each. C. S. Harrison's Select Nursery, York, Nebr.

PIPE FITTINGS.

Pipe, Valves and Fittings, Cuyler & Mohler, Baltimore, Md. Manufacturers' prices, F. O. B. your railroad station. Immediate shipment. Try us.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Primula Obs. Grandiflora, 4 in. pots. \$6 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

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American Beauties, 2-in., \$55.00; 3-in., \$50.00 1000. Cash. J. Henry Bartram, Lansdowne, Pa.

Roses, Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1-2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

1000 plants grafted Maids, 3 inch pots, fine stock, 2000 plants Richmond, own roots, 3 inch pots, very fine plants. Price \$10.00 per hundred, while they last. Cash with order. Robert Simpson, Clifton, N. J.

21-2-in. pots, ready now. Baby Ramblers, Teas, H. P. Roses, 50 varieties, at \$30.00 1000; Crimson Ramblers, \$25.00 1000; Baltimore Belle, Dorothy Perkins, Pink, White and Yellow Ramblers, Queen of Prairie, Seven Sisters, etc., at \$20.00 1000. Gilbert Costich, Rochester, N. Y.

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SEED CASES—MICE PROOF.

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SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

STEAM TRAP.

E. Hippard, Youngstown, O.

SWEET POTATO PLANTS.

For sale, 100 M. Sweet potato sprouts, extra fine; 500 M. cabbage plants, several varieties, all \$1.00 per M.; \$5.00 per 10 M. Orders filled same day received. W. F. Allen, Salisbury, Maryland.

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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

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PARK WOODLANDS AND PLANTATIONS.

Read before the American Association of Park Superintendents by J. A. Pettigrew.

(Continued from page 829)

Care should be taken that all tree saplings that may not be needed be cut out, retaining only those necessary to replace sickly or injured trees. Judicious thinning of all trees should be made where they interfere with the growth of better ones, noting at the same time, and retaining, picturesque groupings or pleasing combinations of trees; preserving meanwhile a natural appearance in the general mass, and encouraging as much individuality as possible without impairing the natural woodland effects. This thinning will permit of the passage of light to the undergrowth, which will respond quickly to its influence, and materially enhance the beauty and naturalness of the woodland. A woodland so dense as to prohibit the growth of vegetation on the ground is dreary and monotonous.

The improvement to the woodland by thinning is soon noticeable. The branches, relieved of the necessity of having to struggle upward to an opening in search of light, spread out to such an extent that it very quickly becomes apparent that the work of the axe will have to be resumed; in fact, whether in woodland or plantation, the work of the axe is never completed; it is vandalism to lay it aside.

The best time to make selections for permanent trees, or for cutting, is in the summer. At this season the condition of the trees can be more easily ascertained, as their relative positions and needs are more apparent than at any other season.

Natural woodlands, when included in lands taken for park purposes, must of necessity either dominate or be subservient to a general scheme of adaptation; in the latter case, modifications of their outlines may be necessary. Let no mistaken sentiment prevent the execution of this work. A park is not made for a day; the work of the present is subject to the judgment of the future; the mistakes of today bear disappointment for posterity. Should it become necessary, then, to cut any part of the woodland in the execution of a properly devised plan for the unification of the different parts of the ground into an harmonious whole, hesitate not to apply the steel.

Very often natural woodlands are subject to such severe and constant use by the public that it is impossible to retain underbrush and ground cover. In such cases the destruction of the underbrush exposes the ground to the action of the sun; the roots running near the surface, which were protected from heat and dryness under the natural forest covering, are killed off, and the trees soon deteriorate or die. This result cannot be avoided unless some other covering can be substituted. Four or five inches of loam seeded in grass will serve the purpose and be of great benefit to the trees.

The proper treatment of park woodlands includes the careful cutting from the trees of all dead or diseased limbs. A large proportion of trees come to an untimely end because of the decay introduced into the boles through the

stumps of dead limbs. Each cut should be made close and even with the bole, and well painted over, renewing the coat when necessary until the wound is healed.

While natural woodlands within park areas are arbitrarily placed, and, generally, control any scheme for harmonizing them with other features, plantations are entirely governed in their location and character by the landscape gardener. The preparation of the ground for planting is of the first importance to the trees. On it depends, largely, whether the plantation shall be a mass of healthy, vigorous foliage, or a collection of stunted trees dragging out a starved existence. For the production of a healthy growth of deciduous trees an essential necessity is a sufficiency of good soil.

No work of park construction should take precedence over that of tree-planting, other than the work necessary to make the ground intended for plantations available. Bridges, buildings, roads and walks are of secondary importance in comparison.

Assuming that the soil is good, preparation for planting should begin in the preceding summer, by ploughing and deeply subsoiling, ploughing the ground two or three times and reducing it to a good condition of mellowness. Spring planting is preferable in our northern latitudes. Fall-planted trees, unless put in early enough to have made roots to sustain them, are apt to dry out by evaporation during the long freezing months. A good method is to make selections and purchases in the fall, which can be heeled in over winter and protected from drying winds. Thus planting can be commenced much earlier, unhampered by the delays of spring shipments from nurseries.

In passing, I might say, that no Park Department should be without its own nursery, where trees and shrubs can be obtained within its own grounds, and be dug under such conditions as obtain in a well-regulated organization. Well-dug trees, with plenty of roots, kept moist until planted, make fall or spring equally successful.

In planting, plant thickly; ten to twelve feet apart is not too close. The ground then is more quickly shaded; the trees, also, shelter each other. Thin out by transplanting, or even by cutting, whenever the branches interfere. Under no consideration permit injury to be done by overcrowding. This method has many advantages; it provides shade for the ground and for the trunks of the trees, which, thickly placed, protect each other from scorching winds; it permits of easy and cheap cultivation of the ground, and is a convenient nursery from which finer trees can be secured each season than can be obtained in commercial nurseries. This plan also gives a greater variety from which to select the permanent trees.

The contrary opinion is held by some, who advocate the planting of the trees in their intended permanent positions. The principal reason for which seems to be, that, from a fear of public outcry, the thinnings are not made, or that from negligence or ignorance the trees are allowed to overcrowd and spoil each other. The first objection may be met by transplanting instead of thinning out. To

DREER'S GIANT CYCLAMEN



Our strain of these are grown for us by Europe's leading specialist, and are unmatched for size, free flowering, purity of color and habit of growth, if you want the best you must grow this strain.

Dreer's Giant Pure White
 " " **White with Carmine Eye**
 " " **Blood-red**
 " " **Rose**
75 cts. per 100 seeds. \$6.00 per 1000

Dreer's Giant Mixed
60 cts. per 100 seeds; \$5.00 per 1000
 250 seeds or more at 1000 rate

See our Mid-Summer Lists for CINERARIA, DAISIES, FORGET-ME-NOT, PANSIES, PRIMULAS and other reasonable seeds.

HENRY A. DREER

714 Chestnut Street, Philadelphia

the second it may be said, that ignorance or negligence cannot be guarded against by any method of planting.

It is best to plant the intended permanent trees at a distance of from thirty to fifty feet, according to their expected development. A second arrangement may be made nearly alternating, of some other kind of tree, and even a third combination may be made, again alternating. The advantage of this plan is that any one of the three arrangements may be adopted, as may be deemed best, at thinning-time, for the permanent trees.

The effect of large masses of trees of one species is much more dignified and impressive than a conglomeration of trees of different kinds and habits of growth. The mass, or groups of varying size, may be allowed to merge into each other in irregular ragged outlines.

It is not considered desirable to plant shrubs throughout new plantations; they interfere with the free use of the cultivator, which is a valuable adjunct to the diligent planter desiring vigorous, rapid growth. Cultivation should be maintained for a period of three years or so, when shrubbery or ground cover may be introduced. Shrubby should, however, be planted on the borders of the plantation when made of such wood-bordering plants

POT MAKERS FOR 140 YEARS
A. H. HEWS & Co. Inc. CAMBRIDGE, MASS.
 FLORISTS OF EVERY KIND

as shadbush, red bud, viburnums, cornels, etc.

For planting in public parks our native trees and shrubs cannot be surpassed for appropriateness and beauty, and for this purpose their use alone is advocated. Nothing can be more inharmonious than the introduction, into park woodlands and plantations, of exotic trees and shrubs, or of variegated sports and monstrosities. Rather let our parks be typical of our native woods and glens, helped along Nature's lines by the artistic hand.

PHILADELPHIA NOTES.

Howard M. Earl of Burpee's left on the 7th inst. on a crop inspection trip through Louisiana and Texas. From there he will make a jump to Michigan, returning to Philadelphia about the 27th inst.

The chief trading among the downtown houses at present is in pot-grown strawberry plants, celery plants, late cabbage and Brussels sprouts, summer vegetable and flower seeds, crimson clover, millet and turnip seeds. Oxalis and freesias are in and will be followed shortly by Harrisia, callas and French bulbs. Dreer, Michell and the Johnson Seed Co. (late Johnson & Stokes) issue seasonable catalogues of these items.

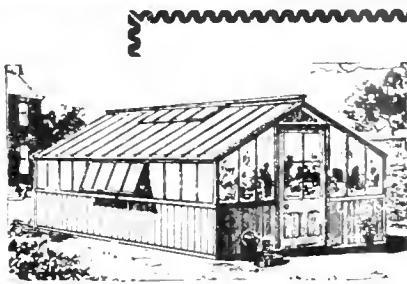
GREENHOUSES BUILDING AND PROJECTED.

- Syracuse, N. Y.—L. C. Smith, one house.
- Eaton, O.—T. M. Waters, range of houses.
- Newburgh, N. Y.—The Yuess Floral Co., one house.
- Rockville, Ind.—H. B. Brubuck, one house, 20x60.
- Minneapolis, Minn.—Minneapolis Floral Co., range of houses.

INCORPORATED.

- J. G. Pickelman Co., Buffalo, N. Y.
- J. G. Pickelman, C. Pickelman, J. F. Pallenson, incorporators. Capital, \$2,500.
- Flushing Nurseries, Flushing, N. Y., capital \$1,000. Incorporators, T. P. and P. H. Lawler of Flushing, Leo R. Lawler, Brooklyn.
- George Achelis, Peter A. Keene and Martha G. Lear have applied for a charter of incorporation as The Morris Nursery Company to be located in Chester County, Pennsylvania.
- The Walker Floral Co., Youngstown, O., John Walker, E. Hippard, I. T. Brant, C. H. Kennedy, B. F. Wirt, incorporators. Capital, \$30,000.
- Chase Nurseries, Dover, Del., capital, \$250,000.

J. M. Thornburn & Company, seedsmen, of New York City, announce their removal from 36 Cortlandt street to their new five-story building at 33 Barclay street



"Built the Premier Way"

Greenhouse Reasons

"To be profitable they should be practical—to impart a nice appearance to your residence they should be artistic—while as you sometimes want to move them they should be portable.
 * You will find all these points—and a lot more in Premier Houses. There is sense all the way through. There is experience behind us—that's a reason. Get booklet No. 48.

Chas. H. Manley
 Premier Works, St. Johns, Mich.

CEMENT BENCHES

Built Under the Pult Patents

Orders taken now. Send exact dimensions of the benches you want to rebuild or put in a new house. Let us figure what we can furnish the bench at. A cement bench lasts a lifetime. Constructed so it can be moved at any time and anywhere. All work guaranteed. This bench will be on exhibition at Dayton.

WM. F. KASTING, 383-387 Ellicott Street, BUFFALO, N. Y.

Holds Glass Firmly
 See the Point **AT**
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.

WANTS, FOR SALE, ETC.
 Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR SALE—Florist's place, few miles out of Boston, toward Brockton. Greenhouses 5000 sq. ft. glass, stock about 2 acres land, modern house and barn, \$4800.00. Address M. care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—A few specimen plants of Polypodium Aureum. William W. Edgar Co., Waverley, Mass.

WANTED—Florist with some experience in potting, watering and growing of Stove Plants. Send copy of references, and experience, in first letter. Address 3132 Melhenny Ave., Westwood, Chelmsford, O.

WANTED—Young, single man for fruit range, Palms and Violet Houses. Wages \$50.00. Reply to E. J. C., Office of HORTICULTURE.

WANTED—Young single man for Greenhouse, who understands grapes. Wages \$35.00 and board. Reply to R. M. C., Office of HORTICULTURE.

WANTED—Young man, 22 to 26, to work in greenhouses; \$55.00 per month. Reply to E. D. R., Office of HORTICULTURE.

WANTED—Young single man, thoroughly experienced, to take charge of greenhouses, gardens, landscape dept., etc. (10 men employed). Wages \$40.00 and board. Reply to C. H., HORTICULTURE Office.

Model Greenhouse Plant FOR RENT

Owing to other business interests we will offer for rent our greenhouse plant at Grafton, consisting of one house 142x32, one 75x18 and connecting house 15x10. These houses built by Lord & Burnham Co. within two years are thoroughly equipped and up-to-date in every respect. We also have in the field 8000 carnation plants in good condition which can be purchased at a reasonable price.

A dwelling house on the property can also be rented.

NORCROSS & STRATTON, Grafton, Mass.

Or apply to

J. E. NORCROSS, 55 Franklin St., Boston

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate	
1500 2 1/2 in. pots in crate \$4.88	120 7 in. pots 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. pots 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	12 12 " " " 4.80	
144 6 " " " .16	6 16 " " " 4.50	

Send pass, 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.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower . . . POTTS

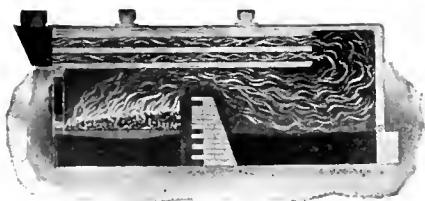
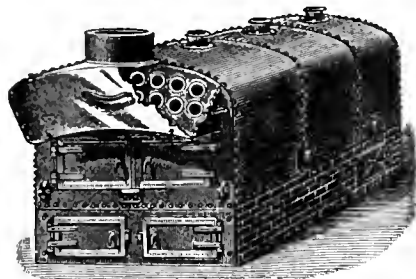
If your greenhouses are within 500 miles of the Capital, write us, we can save you money
W. H. ERNEST,
 28th and M Streets, WASHINGTON, D. C.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

35 Erie Street, CHICAGO.



Boilers made of the best material; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

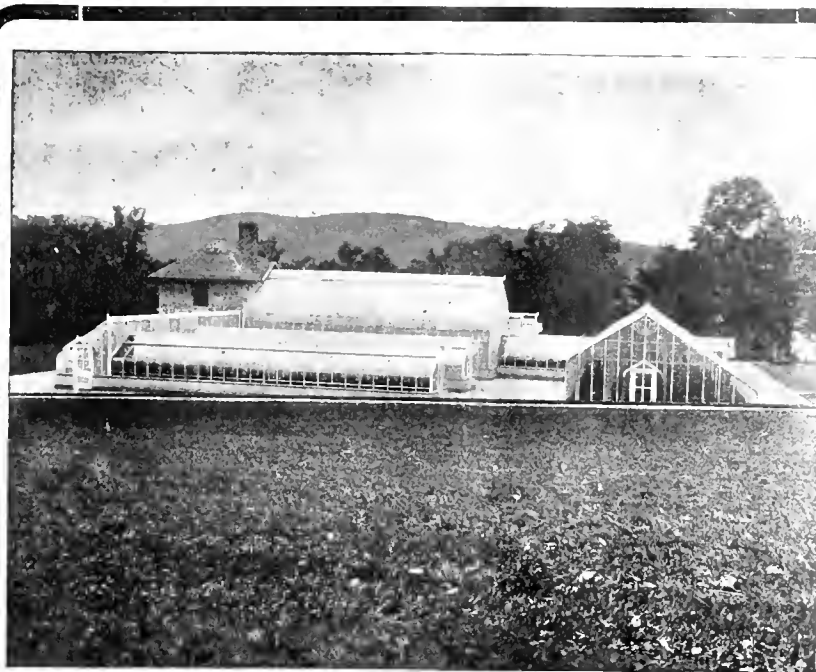
GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.

117 E. Blackhawk St., CHICAGO

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.



THEY DO COST MORE

at the start—but less after you started. In the first place, the thorough protection given the sash bar by the steel encasing of the U-Bar is proof against its decay. The use of aluminum paint means no re-painting for years to come.

U-BAR GREENHOUSES

Are the Best Greenhouses Built

because the repair cost is the lowest, while the plant growth is greater than in any other house.

WE ARE THE SOLE MAKERS OF
U-BAR GREENHOUSES

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U-BAR GREENHOUSES

Metropolitan Bldg., 4th Ave. and 23rd St.
NEW YORK

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE 74 FRANKLIN ST. BOSTON

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL.

WEATHERED COMPANY

46 MARION ST., NEW YORK

GREENHOUSE BUILDING AND HEATING

Send for Catalogue.

SEND FOR CATALOGUE OF
**SCOLLAY HOT WATER
and STEAM BOILERS**

JOHN A. SCOLLAY

73 and 75 Myrtle Avenue

BOROUGH OF BROOKLYN, N. Y. CITY

TO BUYERS

Patronize our advertisers, they will treat you right

H AND C



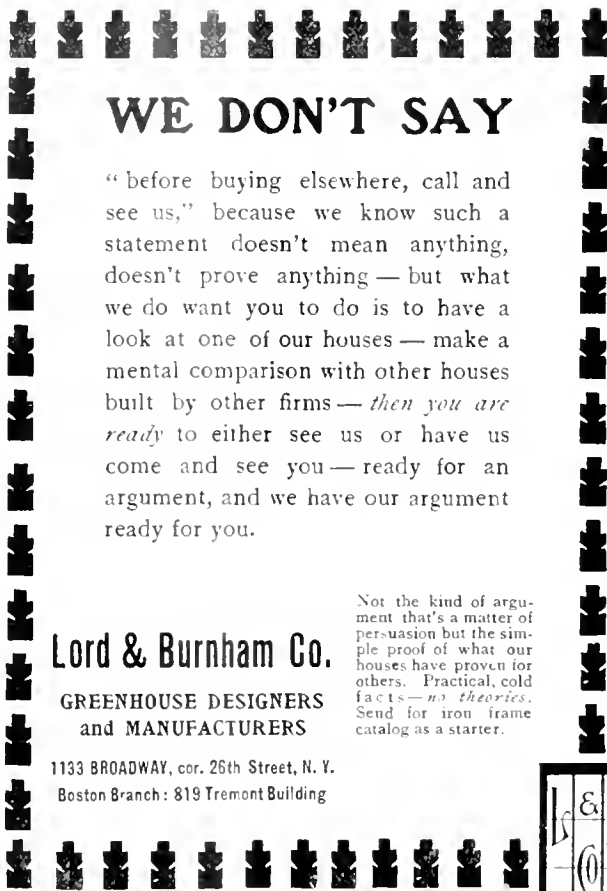
The Worth Of Our Experience

ought to be worth something to you. It cost us considerable to get it, but it doesn't cost you any more to have the benefit of it. We do sell the best of greenhouse materials only — but then you pay for only the best materials.

HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.

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HORTICULTURE

Vol. IV.

JULY 21, 1906

No. 3



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VOL IV

JULY 21, 1906

NO. 3

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7 to 9 " "	200 " " "	18.00 " "
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and a great many growers will want to use Harrisii instead of Longiflorum so as to be sure to have the plants in flower in time, as the season is going to be short for Japan Longiflorum. The crop of Harrisii this year is the shortest it has been in years, and in view of the extra demand, we advise those who have not already covered their requirements to lose no time doing so.

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6 to 7 inch bulbs,	350 to the case,	\$14.00 per case
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5 ("The Snowball Hydrangea")



This splendid American shrub is undoubtedly the most valuable plant in its class of recent introduction, and it will not be surprising if it takes rank above all others now known to the trade.

It is perfectly hardy, a free grower, with beautiful foliage forming a bush of elegant form and appearance; it is extremely free in bloom, a mass of pure white flowers, much the form of hortensia, and coming into bloom just as the last of the spring shrubs are cut of flower, and continuing so that it overlaps the blooming time of *H. p. grandiflora*.

Plants of several years growth assume a fine size—4 ft. in height and about as large in diameter.

This grand plant was discovered some years ago growing wild in an Ohio woods, and several specimens are now growing in the gardens of that region.

Rose House Wisdom

"I have my planting all done." So remarked a gentleman of my acquaintance the other day. "Early planting, I find, if the plants get proper attention, is the best; well developed plants can be attained before winter sets in. Plants of the same size can probably be had later planted, if the buds are merely pinched off, but it is bad practice—at least we find it so. Cutting into a good eye of ripened wood gives a good break and a more shapely plant can be had." I don't think there are two rose growers who grow roses exactly the same way, but with very few exceptions it is the methodical, painstaking man who always has his eyes on his houses and gives those his first attention, who wins. I remember of hearing a story told as true of a certain foreman having his roses watered by lantern light, the men holding the hose in one hand and the light in the other, but very few instances of this can be quoted and it would be good for the man and good for the roses if there were less, but we all have to learn, and experience is a great teacher, especially when the cost pinches pretty hard.

"But gently scan your brother man,
Still gentler sister woman—
Though they may gang a kemmin wrang
To step aside is human."

HORTICULTURE editorially remarked some time ago that the retail florist five years hence would be carrying a greater variety of roses. I hope that prophecy will be fulfilled for all concerned, but we have had so many black eyes when new roses came—some stayed one year and were never heard of again—others lingered a little longer and had the same fate. I will only mention a few. When Her Majesty came here first the trouble was that it went all to wood, but by bending, it flowered and the flower was certainly a grand hybrid. The Puritan was a stately rose for green house use. I remember seeing a house of it when it first came out; it was magnificent, but it had a bad fault of showing a green centre.

To come down to the present day who knows but some of those roses grown under different conditions would have been successful. Take Liberty, for instance. What howls, kicks, and cuffs the promoters of that rose got! I think myself—and it is and was the opinion of many others, that it was a case of overpropagating. The Liberty of today certainly holds her own. A few weeks ago a contemporary referred in its local notes to Richmond as being weaknecked. I do not know whether it is so or not, as we didn't grow it last winter, but I saw a house of it in the winter and early spring and no defect of that nature was apparent. The growing may have had something to do with it. It would be a good idea when a new rose is raised to have the originator send to some responsible men in different parts of the country one year before it is disseminated, a few plants to be grown by these parties, who will give them the best of their personal attention, giving in each instance a written statement of just how the rose acted. The climatic conditions would have to be taken into consideration but allow for that in the reports. The rose growers have been bitten so often that they fight shy, and when a good thing does come out it is often looked upon with distrust. Hitherto it has been like a lottery—"pay your money and take your chance."

E. G. Hill,

Robt. J. M. Brown.

Dendrobium nobile

Commercial florists find this old, well-known, and very popular Indian orchid quite profitable, if a little common sense is used in its culture. An ideal spot may always be found to suit its welfare on any place, but it should ever be under the watchful eye of a grower who has had some little experience regarding its wants (and who will see they are attended to at the right time) such as watering and resting, etc. It has been found to succeed potted in either peat, crocks, sphagnum moss or leaf soil, still it is in no wise a particular orchid in this respect, for it is often seen growing in an old basket or pot in the same spot for years producing annually a nice crop of flowers with no attention whatever; it happens to sit in a position that suits it and its owner has the good sense to leave well alone.

Generally in the spring of the year newly imported plants may be obtained at small cost, which may be placed in small pots, pans, or baskets, using three parts peat to one of sphagnum moss as a potting material and always potting firmly but not too hard. See that the bulbs are tied fast to stakes driven in the pots or to the handles of the baskets, then place them in a sunny position near the roof glass which must be lightly shaded with paint of some kind. The surroundings should always be kept nice and moist by frequent damping down, the plants syringed occasionally on bright days but not heavy enough to cause the compost to become saturated. Give air enough to create a nice genial and buoyant atmosphere. With this treatment they will soon commence to grow fast and the roots will be seen to run through the potting soil to the outside of the receptacle; when this occurs and the plants appear to be dry at the root, they should receive a soak of water; afterwards treating as before, till they appear to be in need of water again. How often such soakings of water may be required depends on the weather and other conditions. By the end of summer the young bulbs will have attained their full length and become hard and firm on top; then more air may be given, reducing the humidity about them and gradually giving the full sun by removing the shading from the glass.

As the plants are now receiving more sun and air they will require much more water at the root for a time till the bulbs have thoroughly matured; then commences the resting season, and for some months only enough water at the root is required to prevent the bulbs from shrivelling; the cooler and drier the house can be kept the better, but if the house is damp or it is not possible to keep the atmosphere dry, turn on more heat but still keep the plants dry at the root only giving the bulbs a syringe on all bright days. The growers' aim at this season will be to keep the roots in good healthy condition, for if the roots are gone by neglect or some other cause the above treatment will not do by any means, for no orchid can be given a rest if it is not well provided with roots, nor will it exist for long either.

By the month of February or earlier, the nodes on the bulbs made the previous year, or two years old bulbs, will commence to swell; then the plants should receive a little more water at the roots and more moisture in the atmosphere until the flowers are well developed;

the bulb may then be cut close to the base. Their keeping qualities are well known and the florist may use them for decorations in many ways; the single flowers dropped on a dining table with a little fern or asparagus have a charming effect. After the flowers are cut the plants will want careful treatment for a time. The moisture in the house and an occasional syringe on bright days will keep them going. A little moss pricked in amongst the roots at this season seems to be very beneficial, as it is not necessary to repot too often and if the same management is followed from year to year success should follow accordingly.

James Goodier

Rose Hermosa

This old China rose is deservedly a very popular color wherever its merits are known. Its beautiful color of shell pink, with continual flowering and delicate fragrance, are a few of the characteristics which place it on the high pinnacle of distinction. Hermosa (by some called Armosa) was produced by one of the noted French hybridizers from the "Old Blush," a popular favorite in the old English rose gardens. It commences to flower in the beginning of June and is a continuous bloomer until checked by the frosts of winter. As an outdoor rose it is as hardy as the hybrid perpetuals, only requiring the same course of protection. A very surfeit of satisfaction can be ensured to those who long for roses in profusion by planting the types of China or monthly roses in their numerous varieties and various shades of color. Some years ago the members of the China rose class were very limited in number, but through the aid of modern travellers and the experienced hybridizer we have now a large collection to choose from.

The Chinese have at least 24 distinct species of the genus *rosa* and innumerable varieties are grown from kinds with tiny white flowers, like buttons, to gigantic flowers 5 to 6 inches across. It is stated that most of the distinct kinds which have at times come under our notice from Japan and Burmah had their origin in the older Chinese empire, and probably many of the Indian varieties also. The Chinese with their characteristic skill and patient industry, bred into some varieties the quality of persistence in flowering producing what we know as the ever-blooming or monthly blooming sorts. Hermosa and some other types of the China class are worthy the attention of the experienced hybridizer to increase the flowering season of this most loved of all flowers. In collections of hardy roses there are many other types of remarkable beauty and with long histories attached to their kinds. The old damask rose known as the York and Lancaster holds a place in history which will stand for all time. This variety bears large semi-double flowers of a pale flesh color, and some almost white, with bright carmine stripes on the petals, and is of very free growth. Another class of roses which has been under cultivation for nearly 400 years but which no one seems to think is worthy of recognition in hybridizing, is the Austrian Briars. These were brought into cultivation between A. D. 1500 and A. D. 1600 by a famous old grower named John Gerarde, who was said to have the largest and best collection of roses in the world at that time.

JOHN H. COX.

The Peony

Abstract of Annual Address of President C. W. Ward Before the American Peony Society at Boston.

In his address before the American Peony Society at Boston, President C. W. Ward said that in order to secure a large display of flowers at the annual exhibitions, from different sections of the country, it would be found necessary that growers in those sections where the peony blooms early in the season, ship their flowers in the bud form for cold storage. For this, he said a regular cold storage plant, with even temperature and dry atmosphere would be much preferable to florists' ice boxes.

When placed in cold storage the bloom should be tied six to twelve in a bundle and the buds wrapped in wax or oiled paper extending six inches beyond the buds but open at the ends, and the stems plunged in water one-half to two-thirds of their length. This uncertainty in storing and keeping peony blooms renders the gathering together of a representative exhibition from different points of the country at one time an exceptionally difficult task and it is a foregone conclusion that our peony displays must depend very largely upon those growers in the immediate vicinity of the locality where the annual exhibition is held.

On the question of nomenclature he had this to say:

The necessity of continuing everlastingly at the task of straightening out the nomenclature of the peony has been most emphatically impressed upon me by my experience in purchasing peonies from both foreign and American growers during the last three years. This spring the attempt to determine whether the names attached to certain varieties growing in our peony test plot were the true names, developed a state of affairs which has caused me not a little chagrin and I find that I have the same peony in many instances under several names. Some two years ago I purchased from one of the most reliable firms in Holland quite a quantity of a peony under the name of Mons. Charles Leveque, paying therefor an exceptionally large price under the impression and representation that I was getting something especially good. The plants are blooming for the first time this season and prove to be nothing less than the variety sold by French growers under the name Mlls. Leonie Calot, introduced by Calot in 1861 * * * Two distinct sorts came to us from reputable firms under the name of Delachii, one being a deep purplish amaranth, the other much darker in color and with a decided crimson cast. I have not as yet been able to determine which is the true sort as either one would answer fairly well to the introducer's description of Delachii which is "Deep purple". From one of the most responsible American peony firms we got the variety Mad. Ducel under the name of Model of Perfection, others have the name of Mons.

Jules Elie attached to their stock of Mad. Ducel. Under Modiste Guerin come two varieties somewhat similar in habit and similar in color, but the true variety is much better in color and a more valuable peony than the false one. Mad. Coste comes to us under the name of Souv. d L'Exposition Universelle. Under the same name we get two dark pink varieties which are far inferior to Souv. d L'Exp. Universelle and which we have not as yet been able to identify. Marie Stuart comes to us from one of the most prominent western peony firms under the name of Baroness Schroeder. Under the name of Mad. de Verneville we get a mixture of Mad. de Vatry, Jeanne d'Arc and the true Verneville. Jeanne d'Arc comes to us under the name of Marguerite Gerard, Agnes Marie Kelway came under the name of La Tulipe and La Tulipe comes also under the name of Multicolor.

Two common dark pink peonies come to us under the name of Mad. Camille Bancel. Under La Tendresse we get a common flesh pink semi-double peony which shows the seed pods prominently in the center. The true La Tendresse is creamy white, absolutely double and shows no center or seed pods and is much dwarfier grower than the false variety.

Some three or four years since we purchased from a Holland firm quite a stock of a good solid pink peony under the name of Rose d'Amour. All of the stock we received from the firm the first year proved to be true to habit and color. The second order to the same firm for the same variety brought a mixed lot of pink peonies, all varying shades of dark and light pink and purple and but eleven plants out of one hundred received proved to be the same kind sold us originally by this same firm as Rose d'Amour. An investigation of the variety and comparing it with the true Rose d'Amour which we purchased from a French firm and which answers to the originator's description, disclosed the fact that none of the peonies shipped us by the Holland firm in question were the true variety. * * *

Our own American firms do not seem to be in much better condition than those in Holland and it would seem as if we are at present almost hopelessly mixed in our peony nomenclature, which seems to be too confused even for our American firms to deal intelligently among themselves. Take for instance, the peony Delachii. Should we need 1000 of this variety for massing in a large piece of landscape work, if we ordered it from two or three different American firms, we would receive probably two or three different shades of purple that would spoil the effect of the mass of color if used together, and barring a very few sorts if we should get an order for a thousand plants of one variety, I do not know where we could get the order properly filled. Before peonies can be used largely and effectively in landscape work the nomenclature must be straightened out so that peonies can be purchased in quantity from different firms true to name, color, height and time of blooming.

We have found three or four firms in Europe who are making an honest effort to send out reliable stock true to the originator's name and who are willing to guarantee their stock. We have adopted the practice of requiring such guarantees and not paying for stock until it has bloomed with us and proved true and the most reliable firms are willing to guarantee their stock in this way.

But even with such guarantees we get too great a percentage wrongly labeled probably due to inefficient systems of keeping stock or carelessness of workmen in handling and packing shipments. As it takes three years to fully identify peonies, this receiving unreliable stock is a most serious detriment and obstacle to the commercial dealer as well as to the amateur who is often keenly disappointed in getting something entirely different from what was expected from the catalogue description or from what was seen and noted on the exhibition table.

TWO NEW PLANTS.

Honorable mention was given to Joseph Tailby for a new hybrid richardia named Mrs. Joseph Tailby, shown at Horticultural Hall, Boston, on July 14. The variety has the same spotted leaves as Elliottiana, the spots being rather larger and more pronounced; the flower is considerably larger than that of Elliottiana but of slightly paler yellow, and the plant appears to be a much stronger grower. Mr. Tailby also showed at the same time Lonicera tragophylla, this being the first exhibition of the species in this country, and received honorable mention for it. The question of a higher award will turn upon the test of the hardiness of the plant in this country. The flower is pale yellow with a greenish cast and, as seen on this occasion, does not bear out the sensational introduction this novelty has been given in England. After the plants get stronger a larger truss and bigger flowers may better demonstrate its excellence.

SMOKE TO SAVE TREES FROM FROST.

Vice-Consul Risdorf reports that the experimental gardening association, Frankfort-Sachsenhausen, has made some trials with fumigation against night frost, which in the present season is frequently very injurious. In April nearly all the trees in the orchard were in full bloom. In expectation of night frost an experiment was made by fumigation with naphthalene. It was a success and the trees were soon enveloped in dense smoke, but it was a very expensive proceeding, seven flames having consumed 120 lbs. of naphthalene in one hour. A new preparation of the chemical manufactory at Floersheim that was tried on April 30 gave a better effect. The production of a comparatively large volume of dense smoke during one hour required only about 40 ounces. These experiments are being continued.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone Oxford 292

WM. J. STEWART, Editor and Manager.

Dayton
entertainment

It has been advanced on behalf of Dayton, O., that it should make an ideal convention city, being small and free from the side attractions which in the larger cities are apt to divert the attention of attendants from the serious work of the convention. The argument is well founded, but there are exceptions to all rules and, judging from the profusion of receptions, band concerts, and the like, which our Dayton friends are promising, it begins to look as though the S. A. F. visitors to that thriving town are in for a very merry time. It would seem that, if any business is to be done, it will have to be "sandwiched in."

The comeliest
of flowers

Rosa setigera, the beautiful Michigan prairie rose, is just beginning to make the gardens glorious in this latitude. Blooming so late, this rose is a gem that deserves more general planting. We know of no rose, or indeed any other flower, with a purer, richer, tint of pink than this rose displays when it first opens. The single-flowered roses have a charm of their own, whether seen in the garden or in the wild thicket, which the most gorgeous double-flowered varieties cannot obscure. Flowers may come and flowers may go, but the rose has no rival: all through the line from the modest little single blossom gemming the roadside to the stately American Beauty in the drawing room it touches the heart and enchants the eye of rich and poor alike and one extreme finds just as many admirers as the other. All success to the patient men who are toiling with loving devotion to evolve for us roses that we can have with us all summer through. It matters not so much whether they are single or double, red, pink, or white, so that they withstand the rigors of winter and blossom for us continuously throughout the season.

Horticulture,
gardeners, and
"literary phonographs"

Our highly-esteemed co-worker, The National Nurseryman, has something to say in its latest issue concerning our recent comments on its attitude towards the landscape art ambitions of the Boston gardeners. We would respectfully submit that HORTICULTURE'S protest was directed not so much against The National Nurseryman's high ideals concerning the landscape gardener's art as against the implication that the artistic side of this fascinating pursuit is something not only beyond the attainments of the ordinary "gardener," but, furthermore, distinctly out of his province. So frankly cordial and commendatory towards HORTICULTURE is our contemporary, however, that we are constrained to forbear from further review of what appears to us an adroit evasion of the real issue. We enjoyed its apt characterization of some of our contemporaries as "literary phonographs" which "repeat and exploit but never originate." Boston gleefully shakes hands with Rochester on that proposition. But we rather think the National Nurseryman will find it as impossible to restrain the gardener from operating outside of "the small door-yard lawn" as to corral HORTICULTURE within the confines of "floriculture," whatever that means.

About
"Wholesome
Chestnuts"

"The Brooklyn Eagle in a recent issue reproduced a number of the 'wholesome chestnuts' of our esteemed contemporary, HORTICULTURE, under the title of 'Floral Tips for the Amateur Gardener.' We compliment the Editor of the Eagle on his keen discernment, and correct estimate of current horticultural information."

The above is a clipping from our New York contemporary. The editor of that ever-vigilant sheet still maintains a profound interest in what we are doing, for "Envy will merit as its shade pursue." He seems to extract comfort out of little things which others heedlessly pass by; so let it be, for we do like to see everybody happy. Since our critic has seen fit to consign us to the amateur ranks, however, we may be excused if we, in turn, compliment our esteemed contemporary upon its "correct estimate" of what its own readers require, as evidenced in such paragraphs as the following, which we find on another page of the same issue in which the above quotation appeared:

"Summer commences today, so the calendars inform us and they at any rate are infallible."

"Just where to place a tree of the proper kind demands the skill of the planter."

We hope our contemporary will kindly overlook our apparent officiousness, if, after reading the above luminous paragraphs, we recall for his consideration another "wholesome chestnut" which has often been prescribed for critics, namely:

"People who live in glass houses should not throw stones."

AFTER ADJOURNMENT.

When one stops to consider the inestimable good the enterprising "trade press" is doing for the florists of our country, life does seem worth the living and we are sorry for the man who has to die and forget it. For "live news" commend always the columns of a western contemporary. One sample will suffice; here it is:

"Mr. — was called upon to make a bomb for the funeral of a prominent butcher last week. It was so natural that many imagined it was alive."

We hear that President Mellen of the N. Y., N. H. & H. R. R. is having a fine conservatory erected at New Haven. This patronage of the horticultural interests is duly appreciated. Now, let him next provide that the everyday horticulturist riding between Boston and New York can have the same advantage of quick traveling time over his road as is given the parlor car patron. Class discrimination will never help any institution to popularity.

PERSONAL.

Mr. Israel Kosnosky and Miss Elsa Beck were married at Dorchester, Mass., on July 2.

"Greetings from Sweden" come to HORTICULTURE bearing the autograph of our esteemed friend, Wm. A. Peterson.

J. B. Heiss, president of the Dayton Florists' Club, is in New York this week in the interests of the S. A. F. exhibition at the convention in August.

J. E. Hoffmire, representing McHutchison & Co., New York, sailed for Europe on a business trip via S. S. Kaiserin Augusta Victoria Thursday, July 19.

J. H. Troy of the Rosary Flower Company, New York, sailed on the 17th inst. on the Caronia to attend the International Conference on Plant Breeding, which is to be held in London under the auspices of the Royal Horticultural Society.

NEWPORT PERSONALS.

Among those visiting Newport last week was Mr. J. P. A. Guerineau, of the Schlegel & Fottler Co. of Boston.

The many friends of John H. Cheyne in Newport are pleased to learn that after a lapse of six years he has resumed his old position with the Schlegel & Fottler Co. of Boston.

"It is an ill wind that blows nobody good." Alex. MacLellan is busy spraying for insect pests on trees. Last week the park commissioners engaged his whole force of men to spray the trees on Broadway and in some of the parks.

OBITUARY.

The death is announced of Mme Auguste van Geert in her 81st year, at Ghent. Madame van Geert was the widow of the well-known nurseryman who founded the business over which the late Edouard Pynaert van Geert presided. The family still conduct the business under the same style.

FIELD OF PEONY FESTIVA MAXIMA CROWN BY GILBERT, H. WILD.



APPRECIATED.

Enclosed is an order for one dollar for HORTICULTURE. Would have sent sooner but have been away. I am very much in love with your paper and appreciate the colored plates. It is growing better each week and no florists could do without its valuable helps in gardening in any line.—S. J.

Dear Sir:—I have pleasure in enclosing the current year's subscription to HORTICULTURE, and wish you continued success in the publication. Some of the recent articles which have there appeared, such as the discussion over the improvement vs. deterioration of varieties and species, are among the best things in current horticultural literature of the day.

Yours very truly,
K. W. F.

IN VACATION TIME.

When life has grown threadbare and seamy,
And the soul is at war with itself,
When the nerves are unstrung and discordant,

And courage is laid on the shelf,
Then wise Mother Nature allures us
Away to her fastness to rest,
And we lay with a sigh of contentment
Our head on her kindly brown breast.

Her breath fans our brow, and its odor
With balsam is pungent and sweet,
And down through the cool, scented silence
The pine needles drift o'er our feet,
And far in the dim distant spaces,
In the soft tender blue of the skies,
We catch through the low hanging branches
The calm, brooding light of her eyes.

And our world-weary spirit grows tranquil,
And the cares that perplex us depart,
As we rest in the bosom of Nature,
And feel the strong beat of her heart.
And her alchemic force permeates us
And thrills through our being and brain,
Till life glows with color and beauty
And courage grows buoyant again.

Oh, the dim, dusky aisles of the forest—
Its denizens wary and fleet,
The music of soft lapping waters,
The solitude of tranquil and sweet,
The soul-searching sacred communion
And the trust with invisible things,
The calm benediction of Nature,
And the infinite healing it brings

—LIZZY CLARKE HARDY.

WINTER COURSES IN HORTICULTURE AT CORNELL.

The tendency in winter-course instruction at most of the colleges of agriculture, is towards specialization and concentration. A few years ago these farm students were all grouped in one course in general agriculture made up of a taste of dairying, animal feeding and breeding, orcharding, farm management, and the like. As time went on and in response to an expressed desire on the part of the pupils, they were separated into groups according to the subject in which they were particularly interested till now the winter-course student at Cornell may elect a course in general agriculture, one in dairying, one in poultry raising or one in horticulture.

The course in horticulture was installed last winter and there were fifteen students registered in it. The certificates to the successful students of last winter in this course have just been distributed and many inquiries are already in hand regarding the scope of the work for next winter. The aim is to make the work as practical as possible with a view of equipping the student for actual orchard, garden or greenhouse management work. Principles are taught, but the practice work is the most important. The course is open to men and women. The facilities at the College of Agriculture are being rapidly improved and when the new college buildings are completed next year the work will go forward with greatly increased enthusiasm and satisfaction. Persons desiring information regarding this course should apply to the Department of Agriculture, College of Agriculture, Cornell University, Ithaca, N. Y.

Herewith I enclose amount of my subscription for HORTICULTURE. With best wishes for your bright and up-to-date paper.—H. J.

NEWS OF THE CLUBS AND SOCIETIES.

SOCIETY OF AMERICAN FLORISTS
AND ORNAMENTAL HORTI-
CULTURISTS.

Department of Plant Registration.

The E. G. Hill Co., Richmond, Indiana, submit for registration *Hydrangea arborescens alba grandiflora* (The Snowball Hydrangea). An American shrub of exquisite beauty and perfect hardiness; leaf broadly ovate and pointed; blooming time, last week in June, and lasting on into August; the form of the bloom resembles that of *hortensia*, of fine size, borne in great profusion and continuously, and of the greatest purity of color. The plant attains a height of 4 feet, and specimens 4 feet in diameter have been noted.

W. J. STEWART,
Secretary.

DAYTON.

The Dayton Florists' Club held a well-attended meeting on the evening of July 9 and S. A. F. Convention matters were taken in hand.

It was voted to send the chairman, Mr. Heiss, to New York and Philadelphia to interview the larger concerns and urge them to exhibit and advertise for this convention.

The President's reception will take place at Far Hills on Tuesday evening, August 21. There will be music and a brilliant illumination of Far Hills.

On the second day of the convention, afternoon, there will be bowling at Fairview and Lakeside. Promenade concert for those who do not attend the bowling.

On the third day,—"Exhibitors' Day,"—concerts will be given inside and outside the building at noon and evening.

The program as arranged for the fourth day, Friday, is as follows: At 10 A. M. a trip to the National Cash Register Co., the model factory of the world. In the afternoon at 2.00 o'clock a street car ride to Soldiers' Home; band concert at the Home by Uncle Sam's band; address at Memorial Hall. In the evening, promenade concert and grand ball at Exhibition Grounds.

Pres. Kasting, Secy. Stewart and Bowler Asmus were in Dayton Saturday and Sunday, July 7th and 8th, attending to preliminary arrangements.

ELBERON HORTICULTURAL SO-
CIETY.

The Elberon Horticultural Society held their first flower show on July 13 and 14 in the rooms of the Elberon Fire Engine Company. The entire building was devoted to the exhibit. Of the fifty-three classes in the premium list all but six were filled. There were several additional special classes. The judges were Alex. McKenzie, Glen Cove, L. I.; H. A. Kettell, Oceanic, N. J.; John Franke, Tuxedo Park, N. Y.

This society was organized in November, 1905, and its membership of seventy is located in Long Branch, Deal and Allenhurst. The present officers, to whom credit for this successful show is due, are,—Pres., W. D. Robertson; Vice-Pres., Herbert Hall; Secy., George Masson; Treas., James Kennedy; Executive Committee, A. Bauer, H. Wood, A. Grieb, E. O'Rourke, F. Dettlinger, J. Ralston,

NASSAU COUNTY HORTICUL-
TURAL SOCIETY.

The July regular monthly meeting was held at Glen Cove, N. Y., on the evening of the 11th inst., with a large attendance. President Harrison in the chair. The prize for the best exhibit of sweet peas, three varieties, twenty-five of each, was awarded John F. Johnston. In the competition for points S. J. Trepress scored 92 2-3 with peaches, melons and *Nephrolepis Whitmanii*; A. Mackenzie 90 2-3 with adiantum, caladium and peaches; Felix Mense 81 2-3 with hollyhocks, roses and stocks. H. F. Meyer made an exhibit of out-door-grown vegetables and fruits, including lima beans, tomatoes, sweet corn, cucumbers, peppers and blackberries, and received special mention from the judges for such.

A silver match safe will be given at the next meeting for best exhibit of six varieties of vegetables.

W. Willesen tendered his resignation as a member of the executive committee and E. Boulon, Sea Cliff, was appointed to fill the vacancy.

JOHN F. JOHNSTON.

MARYLAND STATE HORTICUL-
TURAL SOCIETY.

The program for the summer and winter meetings of the Maryland State Horticultural Society has been received. The summer meeting will take place at Berlin and Ocean City, August 8 and 9. The program for this meeting is most inviting and combines business and pleasure in an admirable manner. Berlin is the home of Orlando Harrison, of the firm of J. H. Harrison & Son. Mr. Harrison entertains the society on this occasion and up-to-date methods in nursery management, as shown in one of the largest nurseries in the State will be shown to the visitors. For full information regarding rates and other details address the secretary, T. B. Symonds, College Park, Md.

The ninth annual exhibition will be held at the Fifth Regiment Armory, Baltimore, on December 5 and 6; \$500 in premiums will be awarded for fruits, vegetables, plants, flowers, nuts and bulbs.

NEW BEDFORD HORTICULTURAL
SOCIETY.

At the regular monthly meeting of this society, held on the 11th inst., it was voted (on recommendation of the executive committee) to award a silver medal to Miss Sarah B. Fay of Wood's Hole, Mass., for the magnificent exhibit of roses at the rose show on June 27. A bronze medal was also awarded to James Garthley of Fairhaven, Mass., who exhibited 350 bottles of roses from Henry H. Rogers' gardens. The topic of the meeting was Japanese iris, and some specimens were shown measuring seven inches. A pleasant evening was spent discussing this beautiful flower, which could not fail to be of benefit to those who cultivate it. The committee on entertainment was authorized to make all arrangements for the annual clam-bake.

PITTSBURG AND ALLEGHENY
FLORISTS' AND GARDENERS'
CLUB.

The meeting of the club on the evening of July 3 was a surprise in point of numbers. It was simply a business meeting to discuss with the respective committees the arrangements for the annual club picnic and transportation to Dayton for the August convention, yet the attendance was almost as large as when the club has an exhibition before it. This preliminary show of interest was well borne out in the attendance at the club's outing. July 10th was the day and the outing took the form of a boat excursion up the Monongahela river to Clairton Grove. It was a basket picnic with light refreshments on the boat, and dancing, music and cards to while away the hours. On arrival at the grove the events in the athletic sports, twenty-seven in number, were decided as soon as possible, and the prizes distributed to the happy winners. For those who did not care to witness the sports there was bathing, and a multitude of nooks and glades invited to strolls. Many a young couple longed to chain the sun in his course, and the end came too soon for all. It was a tired but happy and contented party of florists that left the boat in Pittsburg after one of the most successful outings in the history of the club.

H. P. JOSLIN.

NEWPORT HORTICULTURAL
SOCIETY.

A regular meeting of the Newport Horticultural Society was held Tuesday evening last. President MacLellan in the chair. Bruce Buterton, chairman of the Committee on Float for the Carnival parade, reported excellent progress of the arrangements for the construction of the float. Joseph Gibson gave a very interesting talk on sweet peas, describing in detail the superior qualities of the varieties lately introduced. Mr. Gibson promised to make an exhibit of sweet peas at the next meeting of the society.

It was voted that the members be called to the next meeting by postal cards and, in order to make the meeting as interesting as possible, it was suggested that in part the meeting should be of a social character and that in view of the many good things in plants and flowers now at their best arrangements should be made to have as many of these as possible shown at the meeting; these suggestions will be carried out.

Things are progressing smoothly for the coming big show in the Casino, and it looks as though dahlias would be just right for showing at that time.

The premium list for the annual exhibition, to be held at the Casino, Aug. 13, 14 and 15, is out and copies may be had on application to David McIntosh, secretary. The list of prizes is very liberal.

CANADIAN HORTICULTURAL
SOCIETY.

The official programme for the convention at Guelph, Ontario, on August 29 and 30, has been received. Copies can be obtained by addressing A. H. Ewing, Woodstock, Ont.

SEED TRADE.

J. M. Thorburn & Co. have installed a private branch exchange telephone system, connecting all departments at their new headquarters, 33 Barclay street, New York.

J. Otto Thilow of Dreer's, Philadelphia, is absent on a flying trip through Northern New York and Michigan, presumably on an inspection of the pea and bean crops.

Columbus, O.—The seedsmen have had a little spurt, as they always do in July, with turnip seeds and vegetable plants. It will not be long now before *Harrisii* lilies, freesias, etc., will start the bulb trade, which has every appearance of being a banner business. Weather continues fine for outdoor stuff; plenty of showers.

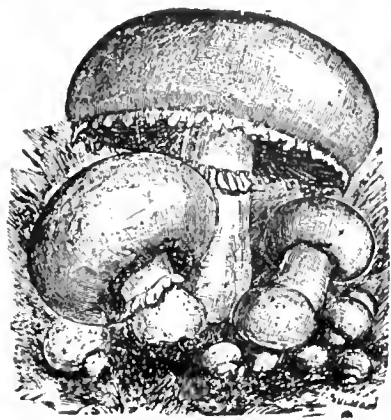
INCORPORATED.

Joseph, James W. and Esther Heacock of Wyncote, Pa., have applied for a charter of incorporation for the Joseph Heacock Company.

The H. E. Fiske Seed Co., Boston. Capital, \$30,000. Pres., P. H. Stratton, Cambridge; Treas., H. E. Fiske, Wollaston; Clerk, S. W. Culver, Boston.

The officers of the recently incorporated *Terre Haute Rose and Carnation Co.*, Indiana, are: President, Edward Reise; secretary, Henry Kranzle; treasurer, C. M. Fortune; assistant secretary, Carl Bohn. Four houses have been erected and the company hope to be ready for business by the first of September.

Charles Pratt of New York, formerly of Pratt & Giger, New London, Conn., met with an accident that may result in the loss of sight of one eye.



MUSHROOM SPAWN
 MICHELL'S Superior English Milltrack
 New Importation Just Received
 Our strain of Mushroom Spawn after being grown by planters for years, has been found to be far superior to that offered by many dealers. Price, per doz. bricks, \$1.50. \$6.00 per 100 lbs., per 1000 lbs. \$55.00; 250 and over at 1000 lb. rate.
MICHELL'S Pure Culture Spawn
 This brand is the result of careful and scientific experimenting, has been tested thoroughly and pronounced a perfect success; produces mushrooms of large size and of excellent quality. Price 12 bricks, \$1.80; \$3.75 per 25 bricks; 50 bricks, \$7.00; \$13.50 per 100 bricks; 1000 bricks, \$115.00; 250 bricks at 1000 brick rate.
 Send for our summer edition Wholesale Catalogue of SEEDS, BULBS, and every requisite for the greenhouse and garden.
 HENRY F. MICHELL CO., 1018 Market St., Philadelphia, Pa.

New Crop of my Christmas Flowering SWEET PEA SEED
 Christmas Pink and Florence Denzer, pure white, will be ready August 1st.
 Those two well known varieties are raised by over 2000 florists all over the world.—Here is one, out of many letters received:
 Dear Sir: My sweet peas, which I raised from your seed, received the highest award at the Carnation Exhibit in Boston, being over 18 inches long.
 JOHN T. GALE, Tewksbury, Mass.
 Price 1-4 lb. 75c.; per lb. \$2.00
 MAILED FREE
 New Christmas Flowering Hybrids, 20 to 30 colors, mostly blue, salmon, purple, lavender, in mixtures; also Mrs. Edie Wild, carnium, separate color. 1 Trade pkt. \$1.00, 5 Trade pkts. \$4.00; not more than 5 pkts. taken in order to each customer just now. Those new hybrids are just as free bloomers as Christmas Pink and Florence Denzer, some much larger, and received first class Certificate of Merit by the Mass. Horticultural Society, Boston, March 24.
 All seed originated with me is sold in my original sealed pkts., with cultural direction, to the growers, but none for seedsmen for propagating
 Orders filled strictly in rotation.
ANT. C. ZVOLANEK
 Bound Brook, N. Jersey

FARQUHAR'S GRASS SEED MIXTURES
 ARE CELEBRATED FOR
 Hardiness, Purity and Permanency
 Specially blended to suit all conditions of soil for Meadow, Pasture, Lawns, Golf Links, Putting Greens, Tennis Courts, Terraces, Embankments and Shady Spots.
 Samples and Prices Upon Application
 STORE HOURS: 7.30 A. M. TO 6 P. M.
R. & J. FARQUHAR & CO.
 Seedsmen, Nurserymen and Florists
 6 & 7 SOUTH MARKET ST., BOSTON

ROYAL LAWN MOWER SHARPENER
 The best device of its kind to date. Makes a perfect edge. A child can use it. Order a sample and see for yourself. 75 cts. postpaid. Liberal discount to Agents.
G. C. WATSON, Dobson Bldg., Cor. 9th & Market Streets, PHILADELPHIA

Joseph Breck & Sons Corp.
Seeds, Bulbs, Plants
 AND AGRICULTURAL HARDWARE
 47-54 NO. MARKET ST., BOSTON, MASS.

THOS. J. GREY & CO.
 Seedsmen
 Agricultural Machinery Repaired
 MOWERS SHARPENED
 32 South Market St., Boston

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

PERENNIAL FLOWER SEEDS
 The most complete collection of choice varieties offered in our General Catalogue, mailed free on application.
W. W. RAWSON & CO.
 Our new store: 5 Union St. BOSTON, MASS.

Burpee's Seeds
 PHILADELPHIA
 Blue List of Wholesale Prices mailed only to those who plant for profit.
 THE CHOICEST STRAINS OF STOCKS
 Including
 CINERARIA, CALCEOLARIA, CYCLAMEN, PANSY, PETUNIA, etc.
 can be had from
JAMES VICK'S SONS,
 Rochester, N. Y.

MAKERS of PURE CULTURE TISSUE
 COLUMBIA, ALASKA, BOHEMIA
MUSHROOM SPAWN
 Fresh Spawn Always on hand.
 WRITE FOR PRICES.
COCHRAN MUSHROOM & SPAWN CO.
 911 CHEMICAL BLDG., ST. LOUIS, MO

Cabbage Worms Killed by lightly dusting with **HAMMOND'S SLUG SHOT**
 For Pamphlet write to Fishkill-on-Hudson, N. Y. Sold by Seedsmen

HELLER'S MICE-PROOF SEED CASES.

 Send for Circulars.
Heller & Co., Montpelier, O.

Johnson's High-Class

FLOWER SEEDS FOR SUMMER SOWING

Our strains of **CYCLAMEN, CINERARIA, CALCEOLARIA** and **PRIMULAS** are from European specialists, and absolutely unsurpassed in quality.

	per 500 seeds	per 1000 seeds	per 3000 seeds
Cineraria, English Prize Mixed	\$0.50	\$1.00	\$2.50
Calceolaria, English Prize Mixed.....	.25	.40	1.00
	50 seeds	100 seeds	1000 seeds
Giant Cyclamen, Crimson Queen, Rich deep maroon red	\$0.40	\$0.75	\$6.00
Dixon Hartland, Pure white, claret base.....	.40	.75	6.00
Duke of Connaught, A superb cherry color.....	.40	.75	6.00
White Swan, The finest white Cyclamen in cultivation.....	.40	.75	6.00
Rosy Morn, Bright Rose with claret base.....	.40	.75	6.00
English Prize Mixed, Comprising the best English show varieties.....	.40	.75	6.00
Primula English Prize, Fringed mixed (Chinese Primrose), 100 Seeds 25c.; 500 seeds 10c.; 1000 seeds \$1.75.			

	Trade pkt.	per oz.
Candytuft, Giant Hyacinth Flowered White	\$0.10	\$0.25
Candytuft, Empress, pure white.....	.10	.20
	Trade pkt.	per oz.
Double Daisy (Bells Perennis), Choice mixed	\$0.25	\$2.00
Snowball, white.....	.30	2.50
Longtellow, Rose.....	.30	2.50
Giant White Flowers are much larger than those of the well-known Snowball, double, and borne on long very stiff stems.....	.40	3.00
Giant mixed.....	.25	2.25
	Trade pkt.	per oz.
Carnation Marguerite, giant mixed	\$0.30	\$2.00
Carnation Marguerite, choice mixed.....	.20	.75
Carnation, German double mixed, extra.....	.30	2.00
Carnation, Perpetual or tree mixed.....	.40	2.50

See our Pansy offer in last week's Horticulture. Send us your list of Fall Bulbs—our prices will interest you.

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Our strain of these are grown for us by Europe's leading specialist, and are unmatched for size, free flowering, purity of color and habit of growth, if you want the best you must grow this strain.

- Dreer's Giant Pure White
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 - " " Blood-red
 - " " Rose
- 75 cts. per 100 seeds \$6.00 per 1000

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250 seeds or more at 1000 rate

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Zirngibel's Prize Pansy Seeds in trade packages, \$1.00 each. Giant Market, 2000 seeds; Giant Fancy, 600 seeds. Full directions with each package.

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Schmidt's Famous Strain, large flowering and Fancy Colors, none better. 50c trial pkt., 1/2 oz. \$2.00, \$3.50 per oz. Plants ready September.

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Messrs. William and James T. Scott, late of Tarrytown, N. Y., have opened a general florist and nursery business at Elmsford, N. Y., under the title of Scott Brothers. Wm. Scott has been superintendent on the Eastman estate at Tarrytown for twelve years and his reputation as a grower is second to none. J. T. Scott has been in the employ of the F. R. Pierson Company as traveling salesman and in the landscape department. This enterprise is in line with our contention that the men to do the ornamental nursery business are those whose experience has been in the ornamental departments of horticulture. Best wishes.

PANSY SEED
Of my own growing—crop of 1906

	1/4 oz.	oz.
UNSURPASSED MIXTURE.....	\$1.00	\$3.00
PARISIAN MANTHO, imported.....	1.00	3.00
MASTERPIECE, fringed edge, do.....	1.00	3.00
DANISH EXHIBITION, do.....	1.00	3.00
GIANT MANTHO, extra fine, do.....	1.50	5.50

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Some give you quantity, some quality, I give you both

Bostons and Scotti

8000 6 in. Bostons at 40c.
8000 6 in. Scotti at 40c.

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\$1.00, \$1.50, \$2.00 and \$2.50
Ten thousand 2 1/2 in. Plumosus Nanus at \$2.50 per 100; easily worth \$3.50.

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NEPHROLEPIS WHITMANI

2 1-4 in., \$25 per 100

BOSTON FERNS

2 1-4 in., \$3 per 100

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Lilies, Japanese Plants

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JUST TO HAND a fine importation of
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Also on hand
C. Trianae, C. labiata, C. gigas, Hardyana type. Odonto. crispum, Pachy type. will arrive in about 3 weeks' time. C. Mossiae, C. Oaskelliana, C. Speciosissima.
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NEW YORK CITY

Arrived In Splendid Condition

Cattleya Mossiae, C. Percivaliana, C. Speciosissima and C. Gigas, also Oncidium papilio, Burlingtonia fragrans and Cynoches chlorochilum.

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Lager & Hurrell, Growers and Importers.. Summit, N. J.

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Bay Trees, Box Trees
Standards and Pyramids
Euonymus, Evergreens
NEW PRICE LIST ON APPLICATION

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Asparagus Plumosus Nanus, 2 1/4 in., fine plants, \$3.00 per 100.

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Excelsa, 5 1/2-in. pots, 3-4 tiers, 10 to 14 in. high, 50 to 60 cts., 6-in. pots, 4-6 tiers, 16 to 22 in. high, \$.75, \$1.00 to \$1.25 each.
Compacta Robusta, very fine, 6-7 in. pots, \$1.25, \$1.50, \$1.75, \$2.00 each.
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Kentia Forsteriana and Belmoreana, 6-in., 30 to 40 in. high, 4 years old, \$1.00, \$1.25 to \$1.50; made up, \$2.00 each.

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The WHOLESALE FLORIST OF PHILA.

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Beauty Bride
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Sweet Peas.

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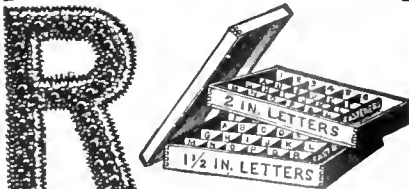
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TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO July 17	ST. LOUIS July 16	PHILA. July 16	BOSTON July 19
ROSES				
Am. Beauty and Edgely Fan. & Sp.	10.00 to 15.00	15.00 to 20.00	20.00 to 25.00	8.00 to 20.00
" Extra.....	6.00 to 8.00	10.00 to 12.50	12.00 to 15.00	6.00 to 8.00
" No. 1.....	3.00 to 4.00	6.00 to 8.00	8.00 to 10.00	4.00 to 6.00
" Lower grades.....	1.00 to 2.00	3.00 to 5.00	3.00 to 5.00	.50 to 2.00
Bride & 'Maid—Fan. & Sp.....	6.00 to 8.00	4.00 to 5.00	6.00 to	3.00 to 4.00
" Extra.....	4.00 to 5.00	2.00 to 3.00	4.00 to 5.00	1.00 to 2.00
" No. 1 and Lower gr.....	2.00 to 3.00	..... to	2.00 to 3.00	.35 to 1.00
Liberty, Fancy.....	5.00 to 6.00	..... to	8.00 to 10.00	4.00 to 8.00
" Ordinary.....	3.00 to 4.00	..... to	3.00 to 5.00	.50 to 3.00
Richmond, Fancy.....	5.00 to 6.00	4.00 to 5.00	4.00 to 6.00	4.00 to 8.00
" Ordinary.....	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	.50 to 3.00
Goldeo Gate, Chateaubay, Fancy.....	4.00 to 6.00	..... to	4.00 to 5.00	3.00 to 4.00
" Ordinary.....	2.00 to 3.00	..... to	2.00 to 3.00	.50 to 1.00
Kaiserin, Carnot, Fancy.....	..... to	5.00 to 6.00	6.00 to 8.00	4.00 to 8.00
" Ordinary.....	..... to	2.00 to 4.00	3.00 to 5.00	.50 to 3.00
CARNATIONS				
Fancy.....	1.00 to 1.50	1.50 to 2.00	1.50 to 2.00	.75 to 1.00
Ordinary.....	.50 to .75	..... to 1.50	.75 to 1.00	.35 to .75
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to .....	..... to	30.00 to 50.00
Lilies.....	5.00 to 6.00	..... to	12.00 to	5.00 to 8.00
Callas.....	..... to .....	..... to .....	..... to .....	..... to
Lily of the Valley.....	2.00 to 3.00	..... to	2.00 to 4.00	2.00 to 4.00
Sweet Peas.....	..... to .....	.10 to .15	.50 to .....	.25 to .35
Mignonette.....	..... to .....	..... to .....	..... to .....	..... to 1.00
Adiantum Cuneatum.....	..... to .....	..... to	1.00 to .....	.75 to 1.00
" Croweanum.....	.50 to .75	..... to .....	..... to .....	..... to 1.50
Smilax.....	10.00 to 15.00	12.50 to 15.00	15.00 to	12.00 to 16.00
Asparagus Plumosus, striggs.....	20.00 to 25.00	25.00 to 50.00	35.00 to 50.00	..... to 50.00
" " & Sprenger bunches	20.00 to 25.00	25.00 to 50.00	35.00 to 50.00	20.00 to 35.00

J.A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and
Carnations
A Specialty.....

WHOLESALE
GROWER of **CUT FLOWERS**

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Cut Flower Market Reports

BOSTON Another dull week, much less doing than last week although that was regarded as the low mark for the season. Luckily the supply has been shrinking about as much as the demand and there is not much confusion, the surplus being light. Vacations are in order, most establishments running under a diminished force. Pleasant anticipations for next week's club picnic are in the air.

BUFFALO Business in the cut-flower line has been quiet the past week. Beauties and select roses, white carnations and peas were in good demand; the same may be said of Japanese lily and longiflorum; the market was cleaned up on this line. Carnations are small; Enchantress and Flora Hill take lead in size. Prices held firm the end of week and much better values were had. Green goods in fair supply; demand normal.

CHICAGO The usual summer depression is now on and business is practically at a standstill. Stock has fallen off a good deal in color and quality, carnations having suffered most on account of the uneven weather we have had of late. Roses are fair, considering, but could be better. Beauties are doing their best to hold their own. Outdoor stock is poor.

CINCINNATI Thus far business has been very good for the month of July. We have a dull day now and then, but the usual summer dullness is not yet with us by any means. Some days it is next to impossible to get enough stock to go around. Some nice longiflorum lilies are now coming in which are quite welcome and find a ready sale. Gladioli are more plentiful, and selling fairly well. Tuberoses and asters are beginning to arrive in limited quantities, but it will not be long before there is an abundance of outdoor stock. Lily of the valley is now out of the market. Roses and carnations are poor, but are not so badly missed as they were a few weeks ago. Outside of fern fronds there is but little demand for green goods.

COLUMBUS Another very quiet week of summer trade. There is little or no good material to be had and all stock moves very slow, funeral work alone bringing good prices. Everybody is talking the Dayton convention. Lots are going from here.

LOUISVILLE Business conditions last week were rather slow, with stock in general in great supply. Carnations are short in stem and roses are only fair in quality but the quantity and demand of both were satisfactory. Daisies, sweet peas, lilies, and other seasonable stock are in fair supply, but did not move rapidly.

NEW YORK Very little trading is in evidence these mid-summer days. The receipts in the wholesale marts are very light, but they are sufficient in all lines for any call that is liable to arise. Carnot and Kaiserin roses are

having their innings, but although of excellent quality, sales are in small lots and infrequent at best.

PHILADELPHIA The general verdict is if stock were a little better more business could be done. Supplies are meager and quality generally is on a par. Kaiserins are good and are eagerly taken. There are a few good Beauties coming in from a distance, and bringing very satisfactory prices. Lily of the valley is in good demand and from all accounts there is scarcely enough to go around. Carnations are very poor. The old stand-bys are sending in their last cut this week. Asters ought to be here in good shape by now; but on account of the unfavorable season they are short-stemmed and small so far. Sweet peas are also on the toboggan. A few straggly orchids chime in on a very minor key. Summer lilies, such as auratum and speciosum, are a pleasing variation and are bringing good prices. No dabbias to speak of yet. However, taking it all in all, the market compares favorably with other seasons. Funerals and weddings are always with us; also an occasional festive tourist.

SAN FRANCISCO Quite a spell of weather now well along in its second week is causing all sexes of people to wear shirtwaists, and has disfigured the roses with a mildewed effect that makes most any old price good enough for them. But the pick from this stock has been all sufficient to meet the present limited demand made on florists. Carnations seem to be blighted but slightly and there are plenty of perfect ones in the great abundance the growers unload at the comparatively few stores yet re-established. There is good improvement in quality of sweet peas.

PROCEEDS OF THE DAYTON SOUVENIR BOOK.

It is true that I have taken charge of this book individually, because the club, through its president, did not wish to accept the responsibility. Mr. Shaw, through an assistant, is aiding me on the advertising, as I believe he has done on several souvenir books, for which he will receive an ordinary commission, but the net proceeds of the publication will be expended for such features of the Dayton meeting as will be approved of by the executive committee of the S. A. F. and the Dayton Florists' Club.

I trust that the Souvenir Book will be supported, for, while I am not printing it for profit, I would not enjoy doing the work and losing money besides.

H. M. ALTICK,
Vice-Pres., S. A. F. & O. II.

The City Improvement Society of Newburyport, Mass. held a flower show on July 6th to secure funds to purchase shrubs and plants for the grounds of the high school. It was the first exhibition of the kind for half a century and was eminently successful.

During Recess

"Jest and youthful Jollity,
Quips and Cranks and Wanton Wiles,
Nods and Becks and wreathed Smiles,
Sport that wrinkled Care derides,
And Laughter holding both his sides."

COLUMBUS FLORISTS' CLUB. OUTING.

Last Thursday the annual outing of our club took place at Buckeye Lake, and proved most successful. Our entertainment committee, Messrs. McKellar, Curry, Bauman, Metzmaier, and Reichart, arranged every detail in the most thorough manner, and from the time we took the special electric cars in the early morning until our return in the late evening there was not a hitch. It was a regular old-fashioned basket picnic. There was good, wholesome entertainment for all. The prizes were awarded as follows: Sack race, I. D. Seibert first, A. M. Hills second; boys' race, Herman Quecke first; girls' race, Celia Destreicher first; ladies' race, Mrs. Galbreth first, Miss Hoyeler second. The star feature of the day was the three-legged race, in which Depray and Stephens were first with Hills and Bauman close seconds. Music, baseball, fishing and boating filled in a full day of sport every minute. About twice as many went as expected, almost a full hundred being present. It was a great outing.

PHILADELPHIA DIVERSIONS.

The Gun Club has been having a stirring time the past week entertaining visiting shooters from all over the State at its grounds at Wissinoming. They have been the headquarters for the Eastern Association's annual meeting from Tuesday until Saturday. Captain Anderson and his able assistants worked like Trojans to make things agreeable.

Joe Gardner and Neil Gardner celebrated their joint birthdays July 14th with a cricket match and lawn fete. The programme commenced at 2.30 P. M., and ended at five minutes past the midnight hour. Scores of friends were present.

It looks as though the Philadelphia bowling team for Dayton will be rather weak this year. Neither Moss, nor Polites, nor Yates succeeded in qualifying in the preliminaries. But there will be a team, and the committee wish it understood that they will be bona fide members of the club only and no ringers or dark horses.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The club picnic will be at Waushakun Grove, South Framingham, July 25th. Special Boston and Worcester cars leave Park square, Boston, at 8.30 sharp, and a special car leaves Chestnut Hill at 9 o'clock. The grove is one mile from South Framingham. The Milford cars pass the grove. Special cars leave South Framingham at 6.30 P. M. for Boston. Refreshments can be purchased on the grounds; boating and fishing; 25 events on the program; games and sports for all ages. Games commence at 10 o'clock. Prizes to the value of \$200 will be distributed.

Committee: F. E. Palmer, chairman; P. Miller, D. Lumsden, J. W. Duncan, E. Hatch, William Sim.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending July 14 1906	First Half of Week beginning July 16 1906		Last Half of Week ending July 14 1906	First Half of Week beginning July 16 1906
Roses			Carnations, Fancy	2.00 to 3.00	2.00 to 3.00
Am. Beauty and Edgeley fan and sp. extra	15.00 to 25.00	15.00 to 25.00	Carnations, Ordinary	1.00 to 1.50	1.00 to 1.50
" No. 1	6.00 to 10.00	6.00 to 10.00	Cattleyas	..... to 25.00	..... to 25.00
Lower grades	1.00 to 3.00	1.00 to 3.00	Lilies	10.00 to 12.00	10.00 to 12.00
Bride & 'Mad, fan and sp. extra	3.00 to 4.00	3.00 to 4.00	Callas	..... to .....	..... to
" No. 1 and lower grades	2.00 to 3.00	2.00 to 3.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Liberty, fancy	.50 to 1.00	.50 to 1.00	Paeonies	..... to .....	..... to
ordinary	6.00 to 8.00	6.00 to 8.00	Sweet Peas, bunches	1.00 to 4.00	1.00 to 4.00
Richmond, fancy	.50 to 4.00	.50 to 4.00	Algonette	.50 to 1.00	.50 to 1.00
ordinary	6.00 to 8.00	6.00 to 8.00	Adiantum Cuneatum	..... to .50	..... to .50
Golden Gate, Chæney, fancy	.50 to 4.00	.50 to 4.00	" Croweanum	..... to .....	..... to
ordinary	4.00 to 6.00	4.00 to 6.00	Smilax	6.00 to 8.00	6.00 to 8.00
Kaiserin, Carnot, fancy	.50 to 2.00	.50 to 2.00	Asparagus Plumosus	..... to 25.00	..... to 25.00
ordinary	4.00 to 6.00	4.00 to 6.00	" & Sprengen, bunches to to
	.50 to 2.00	.50 to 2.00	Snapdragon to to

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 And all kinds of Seasonable Flowers
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Am. Beauty and Edgely, fan and sp. extra.....	20.00 to 25.00	15.00 to 20.00	20.00 to 25.00	20.00 to 25.00
" " No. 1.....	15.00 to 20.00	8.00 to 12.00	12.00 to 20.00	12.50 to 15.00
" " Lower grades.....	10.00 to 12.50	6.00 to 8.00	5.00 to 12.00	6.00 to 10.00
Bride and Maid, fan. and sp. extra.....	5.00 to 8.00	3.00 to 6.00	3.00 to 5.00	2.00 to 4.00
" " No. 1 and Lower grades.....	4.00 to 6.00	6.00 to 8.00	6.00 to 7.00	..... to 8.00
Liberty, fancy.....	4.00 to 6.00	4.00 to 5.00	5.00 to 6.00	..... to 6.00
" " Ordinary.....	2.00 to 3.00	2.00 to 3.00	3.00 to 5.00	2.00 to 4.00
Richmond, Fancy.....	..... to 8.00	4.00 to 6.00	6.00 to 8.00	..... to 8.00
" " Ordinary.....	4.00 to 6.00	2.00 to 4.00	2.00 to 6.00	..... to 10.00
Golden Gate, Chateaux, Fancy.....	..... to 8.00	3.00 to 4.00	2.00 to 6.00	2.00 to 4.00
" " Ordinary.....	..... to 8.00	6.00 to 8.00	..... to 8.00	..... to 10.00
Kaiserin, Carnot, Fancy.....	3.00 to 5.00	3.00 to 6.00	..... to 8.00	..... to 12.00
" " Ordinary.....	..... to 5.00	4.00 to 6.00	6.00 to 8.00	10.00 to 12.00
.....	..... to 3.00	3.00 to 4.00	3.00 to 5.00	4.00 to 6.00
CARNATIONS				
Fancy.....	..... to 3.00	1.50 to 2.00	2.00 to 2.50	..... to 3.00
Ordinary.....	1.00 to 2.00	.75 to 1.00	1.00 to 2.00	1.00 to 2.00
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to .....	..... to .....	..... to
Lilies.....	10.00 to 12.50	10.00 to 12.50	10.00 to 12.00	15.00 to 18.00
Callas.....	..... to .....	..... to .....	..... to .....	..... to
Lily of the Valley.....	..... to	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Sweet Peas.....	.25 to .50	.25 to .35	.20 to .50	.10 to .50
Mignonne.....	..... to .....	..... to	1.00 to 1.50	..... to
Adiantum Cuneatum.....	..... to 1.00	..... to .....	.50 to 1.00	..... to
" " Croweatum.....	..... to .....	..... to	1.00 to 1.50	1.25 to 1.50
Smilax.....	..... to 12.50	..... to 12.50	..... to 20.00	12.50 to 15.00
Asparagus Plumosus, strings.....	40.00 to 50.00	25.00 to 50.00	40.00 to 50.00	30.00 to 50.00
" " & Sprengel, bunches..... to 55.00	25.00 to 35.00	25.00 to 50.00	30.00 to 50.00
Gladiolus.....	3.00 to 4.00 to to to

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Geo. A. Sutherland Co.
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 WHOLESALE DEALERS
 Fresh cut Palmetto & Cypas Palm Leaves, Galax, Leucothae, Ferns and Mosses. All Decorating Evergreens.

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ASPARAGUS.
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Jerusalem cherries, seedlings, 25c. per 100; 2 1/2 in. pots, \$3.00 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

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Bulbs, Narcissus P. W. G., a fine season, fine bulbs. Prices on application. Correspondence solicited. Misses Wilson, Mildred & Pleasant Sts., Montgomery, Ala.

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Chrysanthemums, out of 2 1/2 in. pots, good strong stock. Write for varieties and prices. Pittsburg Rose & Carnation Co., Gibsonia, Pa.

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Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

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Francis Brill, Hempstead, L. I., N. Y.
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Augustus Zirngiebel, Needham, Mass.
For page see List of Advertisers.

Johnson Seed Co., 217 Market St., Philadelphia.
Giant Pansy Seeds.

A. T. Boddington, 342 West 14th St., N. Y.
For page see List of Advertisers.

J. C. Schmidt Co., Bristol, Pa.
For page see List of Advertisers.

PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
For page see List of Advertisers.

PEONIES.

Gilbert H. Wild, Sarcoxie, Mo.
For page see List of Advertisers.

Fine collection of Best Peonies. Complete Peony and P'blox Manuals, 25 cents each. C. S. Harrison's Select Nursery, York, Nebr.

PIPE FITTINGS.

Pipe, Valves and Fittings. Cuyler & Mohler, Baltimore, Md. Manufacturers' prices, F. O. B. your railroad station. Immediate shipment. Try us.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Primula Obo. Grandiflora. 4 in. pots. \$6 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

PUTTY.

Benj. Hammond, Fishkill on Hudson, N. Y. Twemlow's Old English Glazing Putty.
For page see List of Advertisers.

RHODODENDRONS.

John Waterer & Sons, Ltd, American Nursery, Bagshot, Eng.
For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pye, Upper Nyack, N. Y.
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Rose Hill Nurseries, New Rochelle, N. Y. Roses, Killarney.
For page see List of Advertisers.

John C. Hatcher, Amsterdam, N. Y.
For page see List of Advertisers.

Poehmann Bros. Co., Morton Grove, Ill. Rose Plants.
For page see List of Advertisers.

American Beauties, 2-in., \$55.00; 3-in., \$80.00 1000. Cash. J. Henry Bartram, Lansdowne, Pa.

Roses. Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1-2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

1000 plants grafted Maids, 3 inch pots, fine stock, 2000 plants Richmond, own roots, 3 inch pots, very fine plants. Price \$10.00 per hundred, while they last. Cash with order. Robert Simpson, Clifton, N. J.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass.

For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co.,
33 Barclay St., New York.
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H. F. Mitchell Co., 1018 Market St., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass. Grass Seed Mixtures.
For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y.
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James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.

G. C. Watson.

Dobson Bldg., 9th and Market Sts., Phila. Ant. C. Zvolanek, Round Brook, N. J. Christmas Flowering Sweet Pea Seed.
For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany, Es-ab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O.
For page see List of Advertisers.

SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

STEAM TRAP.

E. Hippard, Youngstown, O.
For page see List of Advertisers.

SWEET POTATO PLANTS.

For sale, 100 M. Sweet potato sprouts, extra fine; 500 M. cabbage plants, several varieties, all \$1.00 per M.; \$5.00 per 10 M. Orders filled same day received. W. F. Allen, Salisbury, Maryland.

VEGETABLE PLANTS.

Plainfield Nursery, Plainfield, Ind.
For page see List of Advertisers.

VENTILATING APPARATUS.

Lord & Burham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
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Weathered Co., 46 and 48 Marlon St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave., Chicago.

VIOLETS.

H. R. Carlton, Wiltoughby, O. Violet, Gov. Herrick.
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William Sim, Cliftondale, Mass. Princess of Wales.
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C. Lawritzen, Rhinebeck, N. Y. Marie Louise Violets.
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WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

N. F. McCarthy & Co., 84 Hawley St., Boston.
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George A. Sutherland Co., 34 Hawley St., Boston.
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Welch Bros., 15 Province St., Boston.
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Buffalo.

Wm. F. Kasting, 383-87 Ellicott St., Buffalo, N. Y.
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Chicago.

J. A. Budlong, 37 Randolph St., Chicago.
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Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St. Wm. Murphy, 128 E. 3d St.

Detroit.

Michigan Cut Flower Exchange, 38 & 40 Miami Av. Wm. Dülger, mgr.
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WHOLESALE FLORISTS—Continued.
New York.

Wm. Stuart Allen Co., 53 W. 28th St., New York.
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J. S. Fenrich, 110 W. 28th St., New York.
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Ford Bros., 48 West 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Gutman, 43 West 28th St.
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E. C. Horan, 55 West 28th St., New York.
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Philip F. Kessler, 55 W. 26th St., New York.
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Julius Lang, 53 West 30th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McMannus, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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Frank Millang, 55-57 W. 26th St., New York.
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A. Moltz, 55-57 W. 26th St., New York.
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John J. Perkins & Son, 115 W. 30th St., New York.
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John I. Raynor, 49 W. 28th St., New York.
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W. E. Sheridan, 39 W. 28th St., New York.
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Traendly & Schenck, 44 W. 23th St., New York.
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Hicks & Crawbuck, Inc., 76 and 78 Court St., Brooklyn, N. Y.
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Philadelphia.

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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Leo Nessen Co., 1217 Arch St., Philadelphia, Pa.
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S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
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Edward Reid, 1526 Ranstead St., Philadelphia, Pa.
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Pittsburg.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
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New Offers in This Issue.**FLORISTS' FLOWER SEEDS.**

Jas. Vick's Sons, Rochester, N. Y.
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KOSTER'S BLUE SPRUCE.

J. H. Troy, New Rochelle, N. Y.
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LILIUM HARRISII.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
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MUSHROOM SPAWN.

H. F. Mitchell Co., Philadelphia.
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NEPHROLEPIS SCOTTII; ASPARAGUS PLUMOSUS NANUS.

John Scott, Flatbush, Brooklyn, N. Y.
For page see List of Advertisers.

PERENNIAL FLOWER SEEDS.

W. W. Rawson & Co., 5 Union St., Boston.
For page see List of Advertisers.

TSUGA CANADENSIS WANTED.

J. O. B., care of Horticulture.
For page see List of Advertisers.

NEWS NOTES.

Olson & Linden have purchased the greenhouses of C. W. Blatchley, Southington, Conn.

Carl Erickson of Fitchburg has purchased the Riverside Greenhouses at Gardner, Mass.

Martin Hays succeeds W. H. Leaman as florist at the Carlisle Indian school, Carlisle, Pa.

George W. Wood of Portland, Me., met with a slight loss by fire in the building in which his store is located.

The business men and summer residents of Arverne, L. I., N. Y., are preparing for a floral parade on Aug. 25.

Millville, N. J., and vicinity was the scene of a terrific hail storm last week which, in a short time, did great damage to the greenhouses and the truck farms.

Alexander Emslie has disposed of his greenhouses in Montpelier, Vt., to Alexander Broadfoot who has been a partner of Mr. Emslie's in his Barre business.

Mrs. E. M. Bartow, now doing business at 315 Market St., Chester, Pa., has purchased the estate 317 Market St., to which she will remove after fitting it up with modern appliances.

John W. Ingalls has purchased the business of E. Dempsey & Co., Rockford, Ill. The store at 106 W. State street has been discontinued and a new one opened at 212 South Main street.

A plan to centralize such instruction as is not purely technical will be undertaken at Yale University, Conn., next year, which will bring the departments of botany and forestry under the same instructors.

On account of dry and unfavorable weather the crop of Bermuda Harrisii lilies is reported short, and growers are notifying the jobbers that orders can be only partially filled, especially in the larger sizes of bulbs.

The Society for the Preservation of Native Plants has sent out an appeal to the clubwomen all over the country for aid in preventing the careless and wanton destruction of wild flowers and shrubs, some varieties of which are almost extinct.

Governor Terrell of Georgia, in his annual message, lays great stress upon the necessity of agricultural colleges, and urges the appropriation of a sum sufficient to erect buildings in connection with the university that shall give Georgia an agricultural college second to none.

The elm leaf beetle is again ravaging many districts in eastern Massachusetts and doing its share with the moth pests to devastate the trees which constitute so much of New England's beauty. The notorious tussock moth is also showing a threatening activity in and around Boston this season.

The report of the State Agricultural College at Amherst, Mass., shows that the two years' course in horticulture designed especially for women is discontinued, although women students will still be welcome to all the regular courses; and a change in the conditions in which graduates may pursue studies for the degree of master of science.

Dr. L. O. Howard, of the bureau of entomology, Department of Agricul-

ture, Washington, will assume personal direction of the work of the U. S. government against the gypsy and brown-tail moths in New England. He will be assisted by Dexter M. Rogers of Boston. The plan is to clean up the infested districts in surrounding States before carrying the fight into the central stronghold in Massachusetts.

A partial reorganization of the South Bend Floral Company, South Bend, Ind., will result in enlarged buildings and the introduction of new lines of business. The Foley Mfg. Co., of Chicago, have the contract for the wood work and the King Construction Co. of N. Tonawanda, N. Y., the contract for the steel work. The three new houses will be devoted to roses, chrysanthemums and lettuce. The new stockholders are Mrs. Irving Gingrich, C. W., William and Arthur Studebaker.

CALIFORNIA NOTES.

President Roosevelt has directed the State Department to name David Lubin of this State a delegate to the International Institute of Agriculture and Horticulture to meet at Rome in the palace just being completed for its accommodation by King Emmanuel.

"One hundred million for irrigation will be the slogan of the fourteenth annual convention of the National Irrigation Congress which meets Sept. 3 to 5 at Boise, Idaho," said M. B. Gwinn, chairman of the executive committee of the congress, who is in San Francisco this week.

Most picturesque of any of the spectacles yet provided at the summer school of the University of California was that this week of the great botanist, Professor Hugo de Vries of Amsterdam, surrounded by a group of nearly 200 advanced students in botany watching and listening while the European savant discussed in the botanical garden of the university his unique theories of evolution as illustrated in plant life and development.

A. D. Prial of Oakland thinks he is making good headway in creating a trade sentiment in favor of holding a grand flower show on the east side of the bay in September. It is encouraging to note a revival of interest in re-establishing San Francisco stores. The revivals here mentioned are one block within the burned district, from Van Ness avenue, at the corner of Polk and Sutter streets, a busy car transfer station, and are the resurrected stores of Chas. Stappenbeck, Podesta & Baldoecchi and Frank Shibley.

PHILADELPHIA NOTES.

Paul Klingsporn, late of Dimont's, has leased the Poryzees store and will conduct same under the title of "The Rosary Flower Shop." It has been rumored that William P. Craig and Horace Dumont are the backers, but these gentlemen on being interviewed emphatically deny any connection with the venture.

William Gibson, late of Pennock Bros., and now with Comley, Charleston, S. C., has been visiting his old friends in this city. He reports the outlook in Charleston promising.

Charles Kent, 10th and Chestnut streets, is contracting for a new range of greenhouses.

CATALOGUES RECEIVED.

Wlfrid Wheeler, Concord, Mass. Pot-grown Strawberry Plants for 1906.

J. E. Rosenthal, West Point, Neb. Herbaceous Peonies for fall 1906 and spring 1907. A list of 100 standard sorts.

Howard Evans Weed, landscape architect, Chicago, has published a neat and interesting little pamphlet entitled *The Ornamentation of the City Lot*. There is plenty of room for the dissemination of just the information this publication provides and it should have a wide circulation.

Ant. C. Zvolanek, Bound Brook, N. J. A pamphlet entitled "The Culture and History of Winter Flowering Sweet Peas" has been issued by Mr. Zvolanek. It covers the subject in excellent manner and anyone who proposes to grow sweet peas for winter blooming should have a copy within reach.

A. Dessert, Chenonceaux, France. General catalogue of peonies, No. 15. M. Dessert is known the world over and his peony collections, the results of sixty years' research and cultivation, are renowned wherever the peony is known. His catalogue gives description in French and English of several hundred varieties and is invaluable as a book of reference.

A neat little folder issued by Hughes, florist, Chicago, under the title of "The Care of Cut Flowers, Palms and Ferns," gives those simple rules regarding the use and the keeping of flowers and decorative plants which every florist's customers are constantly asking for. The liberal distribution of such a pamphlet cannot fail to bring customers to a store. It is wise advertising.

A superb production is the catalogue of U-Bar greenhouses just issued by the Pierson U-Bar Company of New York. It is a model of the engraver's and printer's art, from cover to cover. There are 71 pages of half tones, diagrams and descriptions of greenhouses of the U-Bar type, full illustrations of structural details and much to deeply engross any one interested in the subject of greenhouse building. A picture in color adorns the cover. A request addressed to the Pierson U-Bar Company, Metropolitan Building, New York, will bring a copy to you.

PUBLICATIONS RECEIVED.

The Transactions of the Lake Geneva Gardeners' and Foremen's Association for the year ending March, 1906, is an interesting pamphlet of 32 pages. It contains a paper on Carnation Culture by Axel Johnson, one by A. J. Smith on Vegetables Under Glass, Outside Grapes by James Balsdon, Wild Flowers by Wm. Longland, Melons Under Glass by Henry Tolman, Early Chrysanthemums for Outdoors by Frank Kuehne, Seasonable Hints by George Trowbridge, and Peonies by A. J. Smith, also an account of the Chrysanthemum Show of Nov. 3 and 4, 1905.

George C. Boyd, 214 Walnut street, Wilmington, Del., has enlarged his show-room and office to meet the needs of his rapidly increasing business.

Fine Silver Cups and Trophies

For Exhibition Awards,
Sporting Events, etc.

FINEST ASSORTMENT IN
THE COUNTRY FROM
THE BEST MANUFAC-
TURERS AND AT LOW-
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THORNTON BROS.
LAWRENCE, MASS.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate		Price per crate	
2500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/2 " " "	5.25	60 8 " " "	3.00
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1000 3 " " "	5.00	48 9 in. pots 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
244 6 " " "	.16	12 14 " " "	4.80
		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 percent, off for cash with order. Address Hillinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR SALE OR RENT.

2 greenhouses, 30x24 ft. each, also cottage and land connected. Terms easy. Frank M. Richardson, Littleton, N. H.

FOR SALE—Florist's place, few miles out of Boston, toward Brockton. Greenhouses 5000 sq. ft. glass, stock, about 2 acres land, modern house and barn, \$4800.00. Address M. care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—A few specimen plants of Polypodium Aureum. William W. Edgar Co., Waverley, Mass.

WANTED—Young, single man for fruit range, Palms and Violet Houses. Wages \$50.00. Reply to E. J. C., Office of HORTICULTURE.

WANTED—Young single man for Greenhouse, who understands grapes. Wages \$35.00 and board. Reply to R. M. C., Office of HORTICULTURE.

WANTED—Young man, 22 to 26, to work in greenhouses; \$55.00 per month. Reply to E. D. B., Office of HORTICULTURE.

GREENHOUSES BUILDING AND PROJECTED.

Hartford, Conn.—G. Minge, one house.

Hartford, Conn.—Wm. Myers, one house.

S. Sedalia, Mo.—Charles Pfeiffer, additions.

Richmond, Ky.—Albert Reichfarr, two houses.

Newport, R. I.—Stuart Ritchie, carnation house.

Biddeford, Me.—C. S. Strout, one house, 160 feet.

Fairmont, W. Va.—H. Glenn Fleming, one house.

Elmira, N. Y.—La France Carnation Co., five houses.

Cumberland, Pa.—J. A. Kepner, range of houses.

Charles City, Ia.—Sherman Nursery Co., three houses.

Biddeford, Me.—Charles S. Strout, one house, 160 ft. long.

South Bend Floral Co., South Bend, Ind.—Three houses, 30x206.

LIST OF PATENTS.

Issued June 26, 1906.

824,123. Gardening-Tool. Darwin L. Kent, Leslie, Mich.

824,282. Vine-Divider Attachment. Herschel Climer, Chillicothe, Ohio.

824,160. Fruit-Picking Bag. James Utterback, Honeoye Falls, N. Y., assignor of one-half to Forrest H. Utterback, Honeoye Falls, N. Y.

Issued July 3, 1906.

824,717. Grass-Catcher. Chester K. Hann, Columbus, Ohio.

824,761. Lawn-Mower. Melville W. Townsend, Martinsville, O.

824,862. Hoe. Hugh R. Hilton, Port Allegany, Pa.

Issued July 10, 1906.

825,575. Lawn-Sprinkler. Julius A. Barkelew and Cecil L. Grigsby, Redland, Cal.

825,646. Land-Smoother. Martin B. Gooing, Dallas, Texas.

Model Greenhouse Plant FOR RENT

Owing to other business interests we will offer for rent our greenhouse plant at Grafton, consisting of one house 142x32, one 75x18 and connecting house 15x10. These houses built by Lord & Burnham Co. within two years are thoroughly equipped and up-to-date in every respect. We also have in the field 8000 carnation plants in good condition which can be purchased at a reasonable price.

A dwelling house on the property can also be rented.

NORCROSS & STRATTON, Grafton, Mass.

Or apply to

J. E. NORCROSS, 33 Franklin St., Boston



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**GREENHOUSE
MATERIAL**

IS THE BEST
WE HAVE LOTS OF IT
SEND FOR SKETCHES
ESTIMATES AND FREE
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FOLEY MFG. CO.
471 W. 22ND ST.
CHICAGO

if you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.

FOLEY MANUFACTURING CO.,
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CEMENT BENCHES

Built Under the Pult Patents

Orders taken now. Send exact dimensions of the benches you want to rebuild or put in a new house. Let us figure what we can furnish the bench at. A cement bench lasts a lifetime. Constructed so it can be moved at any time and anywhere. All work guaranteed. This bench will be on exhibition at Dayton.

WM. F. KASTING, 383-387 Ellicott Street, BUFFALO, N. Y.

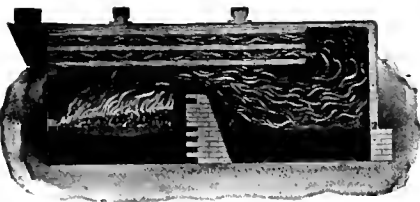
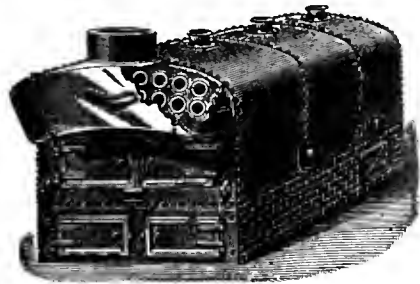


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Greenhouse Boiler,

35 Erie Street, CHICAGO.



Boilers made of the best material: shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

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BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

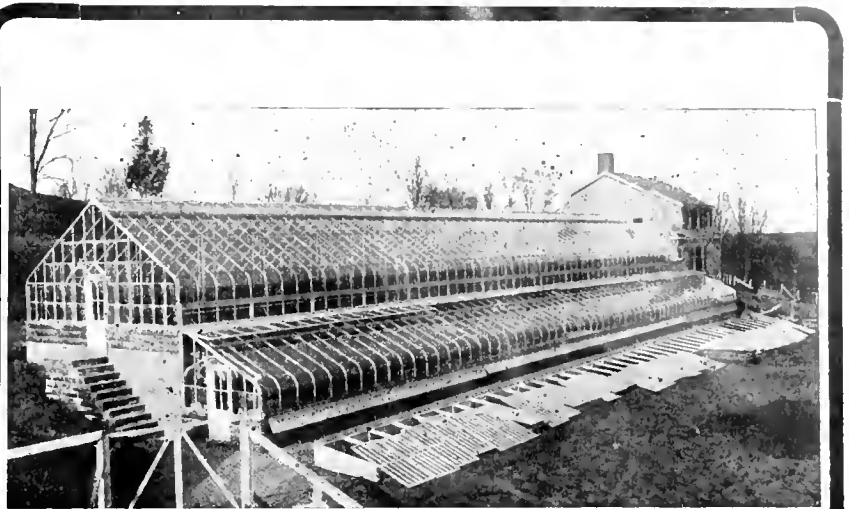
GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.

117 E. Blackhawk St., CHICAGO

NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.



10,000 ROSES

from 400 plants, cut from January 1st to April 14th in this house — "firsts" only counted. It was the gardener's first experience with U-Bar houses — he declares with us that

U-BAR GREENHOUSES

Are the Best Greenhouses Built

because there's not a house their equal in growing possibilities — none as easy to grow in.

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PIERSON U-BAR COMPANY

Designers and Builders

U-BAR GREENHOUSES

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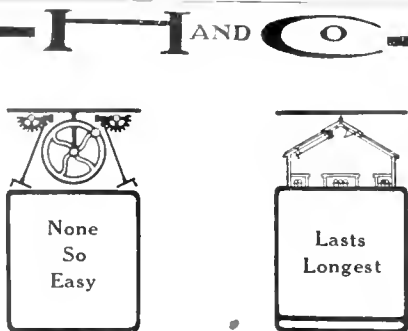
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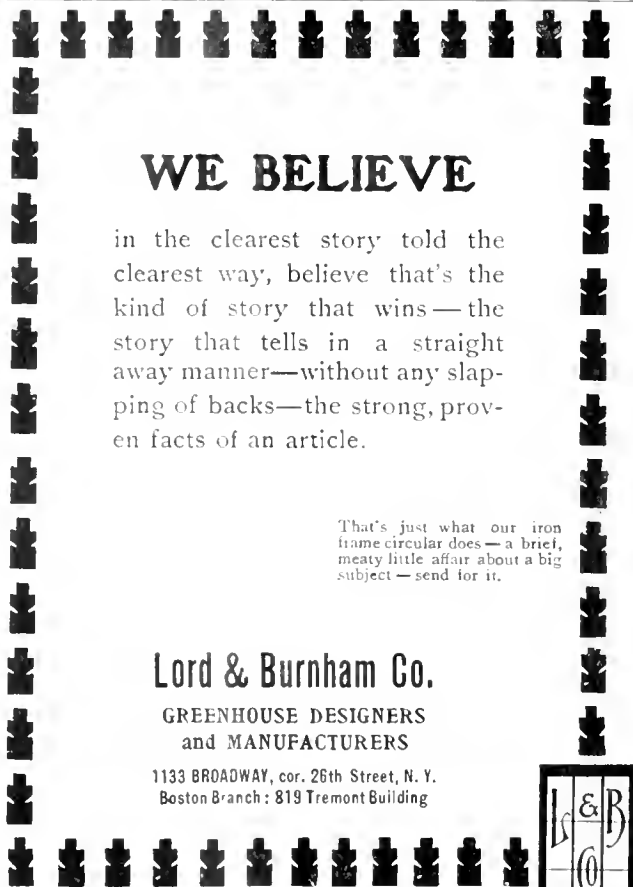
ventilating apparatus — the self-oiling one. In the first place the reservoir enclosing the gear, actually encloses it and is not left open at the top to collect the weather that drives in. The oil does not run down the operating rod, making an unsightly nuisance — It does run with perfect ease — is a perfect machine, built to last.

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For Glazing Greenhouses

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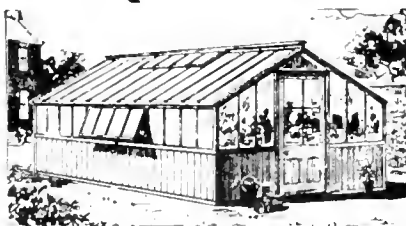
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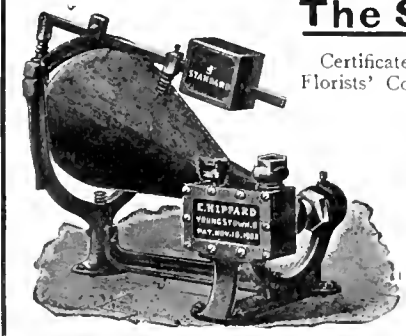
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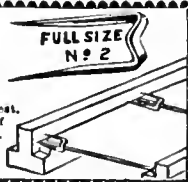
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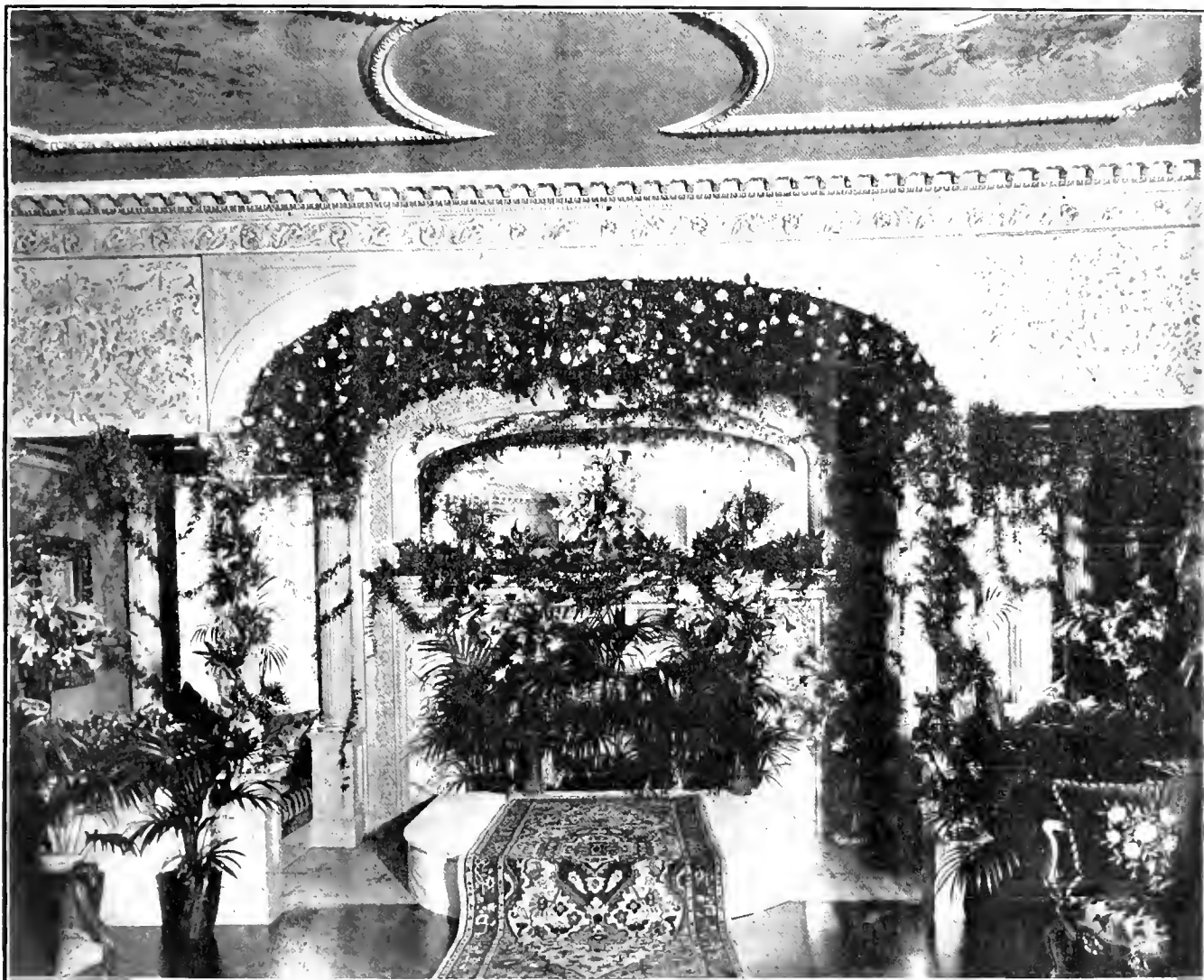
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HORTICULTURE

Vol. IV. JULY 28, 1906 No. 4



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HORTICULTURE

VOL IV

JULY 28, 1906

NO. 4

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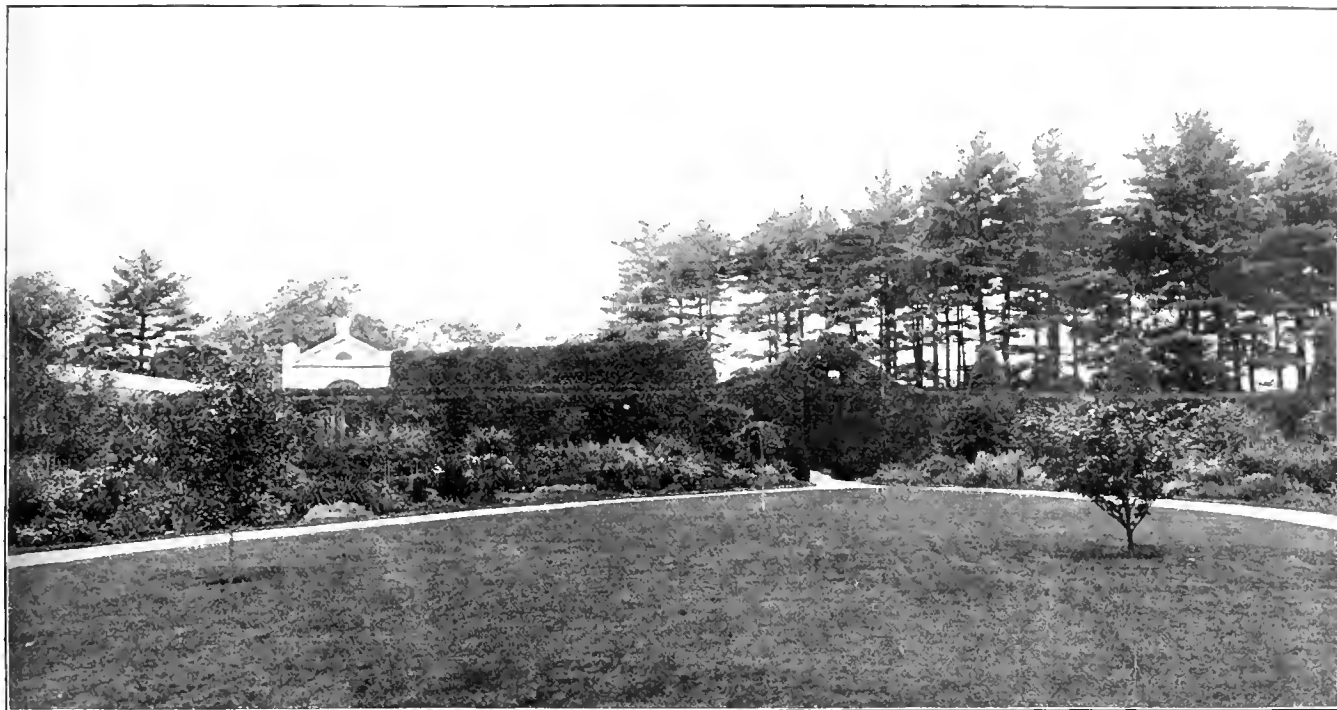
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Flower Garden Arrangement



When we look back to the time when pattern bedding was fashionable in public and private gardening we cannot help feeling glad that it is all but gone. It still lingers in the public parks and gardens of some of the larger cities, where least it should exist. We cannot believe it is kept up in these places for the love of it, for it is a disagreeable and monotonous task and tremendously expensive. Among park managers—or shall we say public gardens—there appears to be a notion that nothing else will please the public fancy so well. It is, however, very misleading to the public, among whom are a large number of amateurs with small gardens. We are most of us carried away with novel and startling effects in gardening—whether it be in design or color, it makes little difference; and people who see these things in private and public gardens whose tastes are undeveloped, are liable to think this style of gardening the height of perfection.

Bold and pleasing color effects will never cease to delight us, even though, as surely happens, if we should see the same thing every day it would pall on us. And still, in another place we should go through the same mental process, if the design or color were different, especially if we should come upon the thing unexpectedly. A mass of Oriental poppies, German iris, or Japanese iris, is something that stays in what we may call one's eye-memory. Places thousands of miles away, and years ago, will come back to us by just such sights as these.

We often think we do not make the most of flower garden effects. By indiscriminate planting, which is little better as practiced in most flower gardens today—or rather shall we say herbaceous gardens—we get a

succession of bloom from spring until autumn, and there is always "something interesting" in bloom. We are not satisfied ourselves with what we have done, and we feel ashamed sometimes when compliments are paid us. We have asked visitors, especially ladies, for suggestions on color harmony, and only too often get for a reply that "it could not be better than it is," which shows, unfortunately, that their tastes are no further developed than our own.

It is not always that the situation affords the opportunity to carry out any color scheme in flower gardening, but where it does it should be attempted. Phloxes planted in groups of a dozen or more, of one color, are more effective than mixed groups. The same with delphiniums, rudbeckias, gypsophilas, lychnis, monardas, and many others. We think even in mixed planting, such as we generally see in herbaceous borders, large masses of color are most effective. There is also a chance for harmonious color blending. This would mean that we arrange corresponding colors of various-habited plants, especially with regard to heights, for effective grouping and such as bloom about the same time.

Thus we are led to the idea, sometimes suggested, of seasonal gardening. I do not say that I indorse it, but it may be examined and the possibilities opened out. The seasons may be divided into early spring—April; spring—May; early summer—June; summer—July—August; early autumn—September; autumn—October and November, if we include berried and foliaged plants. There is material enough to make a success of the plan, as far as each section goes, but the undertaking as a whole would not be. It could not be done very

well by arranging the seasons in one garden.—a series of gardens would be necessary and the greatest drawback would be that each garden would be practically closed to view after its season.

We have another suggestion—that of not arranging plants in panoramic fashion, as in general border gardening—and shown in the accompanying photograph of part of the flower garden at Wellesley—but to take a square as the easiest, or a circular formation, or any other that fits the location.—some large, others small—and have annuals, biennials, and perennials, as well as bulbous plants represented. It would give the collector and the specialist a great opportunity to keep species and varieties together for observation and comparison. The different sections of iris, commencing with the earliest of the Germanica type; the Japanese later, and the autumn-flowering kinds, Susiana and Iberica, phloxes, early and late, pyrothrums, potentillas, peonies, lilies, poppies, violets, asters (species), campanulas, larkspurs, columbines, sunflowers, foxgloves, sweet williams and penstemons. There is no reason why annuals and other tender plants could not be used. Dablias, cannas, antirrhinums, scabiosas, zinnias, stocks, Chinese asters, Shirley poppies, annual larkspurs, sweet peas in separate colors, verbenas, cosmos, marigolds, Phlox Drummondii, hollyhocks. Take a person of a botanical turn and it will be seen how far this idea could be carried, or at least in what direction. Such beds could be edged with *cerastium tomentosum*, *Centaurea nigra* var. *aurea*, *Armeria maritima*, dwarf grasses, *Enonymus radicans*, box where hardy, dwarf phlox. I haven't tried to exhaust the list. These are just a few as they come to my mind.

J. D. Hatfield

Horticulture in Boston

I have recently spent three delightful weeks at Boston, and regret that a severe attack of bronchitis impelled me to cut short my visit. The further chance to meet my daughter in New York decided my movements. Picking up my mail I find the National Nurseryman taking issue with HORTICULTURE on certain ethics of landscape gardening which are "in need of further elucidation."

There are no friends of mine more delightful than pedagogues. I never caught one adopting a supercilious attitude toward me personally, unless he happened to be purse proud.

But there are those who make a constant practice of a supercilious attitude towards gardeners in their pub-

lic writings, and who just as stubbornly pervert the gardenesque. The editor of the National Nurseryman cannot see how that attitude feathers the nest, neither can HORTICULTURE. That is perfectly clear.

It is not so clear how the Nurseryman can keep the theory, design, and engineering branch of landscape work apart from the material and planting part, for the first is a mere preparation for the last, and if merely theoretical, apt to be a miserable preparation and impossible to carry out. The complaint is made that "landscape architects," so called, experience the greatest difficulties in securing competent men to execute their plans. I quite believe it. Competent gardeners rarely if ever play second fiddle to such men, for if they are competent to execute a plan—that is place it on the ground—they are very likely indeed able to plot it on paper. But experienced gardeners know fully well that many of the most charming places in the world have been formed without the intervention of any paper plan. I have in mind a charming and simple piece of work of Downing's within a mile or two of where I write, and when he was asked about the road plan he held up his violin, and said "he would make it like the body of his old fiddle." It exists in this form today, and I cannot conceive that he found a plan necessary for the planting consists mainly of white pine, Norway spruce, arbor-vitae, elm, and maple. Given the requisite "engineering" which any competent gardener can compass, the completion of the buildings which may or may not be essential to guide him, and depend upon it there are a great many gardeners fully competent to execute the planting, and embellish the "engineering" so thoroughly and completely that it will sink into the obscurity befitting it.

All this "implies" (as the Nurseryman remarks) a knowledge of the adaptations of plants, and the peculiarities of soil and climate, directly in the field of the gardener, rarely or never in that of the architect.

In conclusion, search the history of gardening through and through, and tell me if you can find an architect or pedagogue of them all who ever *originated* a garden fashion, or moulded a garden idea.

They are commonly mere garden "phones" used to express gardeners' ideas in more or less academical and delightful language. No man among them ever did such work as Gibson did for sub-tropical gardening, as Ingram did for the spring garden, as Paxton did for horticulture in general, or to come nearer home, as Harris did at Wellesley.

James MacTierson

CONVENTION NUMBER AUGUST 18. WATCH IT.

British Horticulture

THE GUNNERSBURY GARDEN.

One of the finest gardens in the neighborhood of London is that belonging to Mr. Leopold de Rothschild at Gunnersbury, under the control of Mr. James Hudson, V. M. H. This is an attractive "show" place which will be visited by the American and continental delegates who are attending the international conference on plant breeding at the end of July. Recently I had the pleasure of anticipating the rich treat which is in store for the visitors when they participate in Mr. Rothschild's hospitality. Under Mr. Hudson's genial guidance I was able to inspect the wealth of floral treasures which are to be found after half an hour's drive from Central London. The place is additionally interesting from the fact that new features are continually being added to the delightful grounds, whilst there is an absence of that rigid uniformity which so frequently mars the effect of the work of the most experienced landscape gardeners. Mr. Hudson has a strong objection to the formal designs which find favor in some gardens. A new development which has added to the reputation of Gunnersbury is the admirably designed Japanese garden, complete in the appropriateness of the setting, and containing a unique collection of Eastern plants. The bamboo garden is of a notable character, amongst the subjects included being *B. fastuosa*, *B. palmata*, *B. Castillon*, *Phyllostachys aurea*, *P. nigra*, etc. These and others form a very imposing collection, and are seen to the best advantage in their picturesque surroundings.

A HEALTH GARDEN.

Another addition to the Gunnersbury attractions is a health garden. A number of mounds have been arranged which give a natural setting to masses of autumn-flowering heather of the leading varieties, divided by flagged stone pathways and surrounded with alpine rhododendrons and other appropriate plants. Water lilies are cultivated to perfection. These are raised in tanks over which there is a glass span-roof. The varieties include *Daubeniana*, which was formerly extensively cultivated at the Duke of Devonshire's famous gardens at Chatsworth. In another part of the grounds a large batch of chrysanthemums were to be seen. These are chiefly of the early-flowering section, and later in the season eight or ten plants are transferred to large tubs, and these are used for the decoration of the lawn at the front of the mansion. In the houses, the fruit trees in pots are models of skilled cultivation. A system of successional utilisation of the fruit houses for various kinds of fruit is adopted under which it is possible to get those crops during the year, there being put into heat alternately during the seasons figs, vines, plums, strawberries, peaches, etc. The pot vines are fruited once and then discarded. Figs are obtainable for nine months of the year, the varieties grown including *D'Agen*, *Grosse Violette de Bordeaux*,

Violet Sepor, *Pingo de Mel*, etc. A noteworthy feature of fruit culture here is that the autumn-bearing strawberries are treated as annuals. These are but a few notes of a place teeming with charming objects of interest.

THE CULT OF THE SWEET PEA.

The National Sweet Pea Society have every reason to be satisfied with the increasing popularity of the cultivation of the attractive flower they are seeking to improve. The roll of members is steadily increasing, and at the London show on July 5 the number of exhibits were nearly 1000. The chief trophies were awarded to Mr. Thos Jones, a Welsh enthusiast, who last year won thirty-four firsts, seven seconds, and a third prize. The day following the show the members of the society were able to inspect the extensive sweet pea trials of Messrs. Watkins and Simpson of Twickenham, Mr. Alfred Watkins being the president of the society. The visitors spent a very pleasant and instructive day. On July 7th I was able to accompany the members to Reading, although regretfully prevented from attending the Twickenham outing. A three-quarters of an hour's run through the rural parts of Berkshire brought us to Reading, and soon we were being cordially received by members of the firm at the world-famed seed trial grounds of Messrs. Sutton & Sons. Time was limited so attention had to be confined to the sweet pea portion. Here were to be seen 310 varieties in 550 rows, representing over two miles of blooms of all tints. It was interesting to contrast the small blooms of a nondescript tint which were in favor twenty years ago with the present well developed and imposing blooms. The experts present—and these came from all parts of the kingdom—were unanimous in their praise of the high standard of culture characterizing the trials generally.

A TRIAL OF SYNONYMOUS SORTS.

After partaking of the generous entertainment of Messrs. Sutton we journeyed to another part of Reading to examine the trials which had been conducted by Mr. Chas. Foster at the University College gardens. The existence of a number of duplicates under various names has caused considerable confusion. The society have now had grown 140 varieties of the type recognized, and they were able to make some useful comparisons. It was found that there are several identical sorts being distributed under different names. Of course the society cannot prevent a seedsman continuing to send out any variety under the title selected, but they will be able in their next schedule of prizes to intimate the kinds which they consider to be synonymous in the respective classes. It was noticed that one new variety which secured a medal at the recent show had sported badly, and it was decided to suggest to the raiser the advisability of not placing it on the market until it was properly fixed. This raised the important question that it will be advisable in future to have the varieties tested on a trial ground before being granted an award, which is usually regarded as a guarantee of a new variety's merit and reliability. The society highly appreciated the efforts of Mr. C. H. Curtis, the secretary, in promoting the success of the outings.

W. H. Adsett,

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WM. J. STEWART, *Editor and Manager.*

Ornamental horticulture in the West

Our brief account of the summer meeting of the Nebraska State Horticultural Society, held at Omaha, as given in this issue, shows that ornamental horticulture and its beneficent influences are well appreciated in the great western country, which we have been disposed hitherto to regard as devoted almost exclusively to agriculture and pomology. The Nebraska society is to be congratulated on its activity in this field. It is a good sign of any community in our busy land when the people find time and disposition to gratify the aesthetic sentiment by the cultivation of the beautiful in nature and the adornment of their homes with flowers.

The gardener and landscape art

Our columns this week contain another contribution to the discussion on the gardeners' status in relation to landscape art. It is difficult to conceive of a successful landscape artist who does not come to his work with inborn talent. All the technical education, all the garden training in the world, will not make up for the lack of this one indispensable attribute. But it is reasonable to presume that the gift is much more likely to be found in the man who is successful as a gardener—successful because imbued with an instinctive love for gardening art and plant life—without which the work of the landscape architect is soulless and unsatisfying. Assuredly, the higher class of gardeners offer the best material from which to develop the true landscape artist.

Relief from brown- tail moths

It is pleasant to be able to record a great diminution of brown-tail moths in the worst infected district—the Middlesex Fells territory to the north of Boston. It was discovered early in the spring that great numbers of the hibernating caterpillars were dead in the nests, and the high death rate was presumed to be due to the warm weather in January and

the subsequent low temperature. The English sparrows are credited with having destroyed many of the caterpillars during the spring. They did not eat the insects entire, but were seen to bite them almost in halves, either for amusement or to obtain some prized tidbit in the body—probably the latter, as they have not been known to molest the gypsy caterpillars. The suffering from brown-tail poisoning has consequently been very little this season, and we are duly grateful for the unexpected relief.

Working for a trustworthy nomenclature

Those who read what our British correspondent has to say in this issue upon the important subject of reliable nomenclature will find therein material for thoughtful consideration.

The work of constantly following up, inspecting, comparing, and recording the distinguishing characteristics of commercial varieties and giving full publicity in unbiased manner to the results of their investigations is one of the principal missions of our special societies. To accomplish much of real value, constant familiarity with their subject is a first requisite for those engaged in such work. The maintenance of trial grounds, the visiting and inspecting of stocks planted elsewhere and the compiling of lists means arduous work and much expense continued uninterruptedly for years on the part of those who from constant association have become proficient in recognizing types and keen to detect points of variation in sweet peas, peonies, roses or whatever may be their chosen specialty. We believe that as fast as positive results have been reached in this department of the special societies' work they should be tabulated and filed with some central custodian, through whose agency a general and systematic dissemination of the knowledge thus accumulated should be made, and whose authority, although suggestive rather than coercive, would soon come to be recognized by general consent. How willing those engaged in the introduction of a novelty are to accept such guidance even when it entails more or less embarrassment and disappointment to them, is well shown in a number of instances in connection with the S. A. F. plant registration department. One of these occurred recently, where a gentleman after having publicly exhibited a handsome new seedling rose as Columbia cheerfully substituted another name when shown that another firm had made a prior application for the use of the name Columbia, although he had not previously even been a member of the national society.

The Single Purpose

in the reading columns of this journal is to give intelligent readers the kind of matter which will be of interest and benefit to them. This has been our policy from the start and explains why a new paper has so quickly won a reputation for good advertising results. Every concern has its own way of doing business.

Our Way

is to aim constantly to catch the eye and the consideration of the best men in the trade—those who are buyers of first-class material and who can pay for what they buy. If you have goods to offer to that class of buyers then advertise the fact in HORTICULTURE and

You'll Get There

After Adjournment

The "Pink Baby Rambler" is the latest addition to the rose list. No doubt we shall soon have "baby ramblers" in all shades and tints, for the name is not likely now to be dropped, inappropriate as it was from the start.

Every lady with a family (and every gentleman similarly blessed) knows which is the "handsomest baby," and those having none don't care, so what's the use of bothering judges to make the selection at the risk of their physical safety? Foxy managers will cut this item out of their picnic program.

PERSONAL.

Miss Marie, daughter of George Wittbold, and Mr. F. C. James, were married at Chicago, Ill., on July 11.

Among recent visitors in Boston were: Frank McMahon, wife and niece on an automobile tour from Seabright, N. J., to the White mountains; A. D. Rose, Montclair, N. J.; A. M. Rennie, of Providence, R. I. and C. B. Weathered, of New York city.

A postal card just received, showing a group of Americans in Berlin starting for their annual celebration of the Fourth of July, bears the signature of Hermann Thiemann. So that estimable gentleman is undoubtedly enjoying himself.

PHILADELPHIA PERSONALS.

William Tricker, who is now located at Lansdowne as reported in a recent issue, says he does not intend to engage in business there on his own account; but is still open for a position as gardener or superintendent on a gentleman's place.

H. Bayersdorfer arrived home from his European trip on the 23rd inst. and is now busily at work catching up with arrears and laying plans for the future. He has a grand lot of novelties under way for the convention.

Philip Frend of Michell's goes on his vacation on the 28th. He will sojourn at Bridgeton, N. J.

MONTREAL NOTES.

Business is very slack now and owing to the excessive drouth everything is dried up. Sweet peas are coming in very plentifully, but are short-stemmed.

The Montreal Florists' and Gardeners' held their annual picnic on Wednesday last at Highgate Springs, Vt. The day was an ideal one, so was the place. There were about two hundred present and the numerous games were well contested. It was conceded by all present to be about the best picnic in the club's history.

We regret to report the severe illness of Mr. Edward Graves, (father of Bert Graves) one of Montreal's oldest florists who has retired from business some years.

George Hopton has been suffering from a badly poisoned thumb caused by a rose prick.

Harris & Hopton, Jos. Burnett, and A. Gilmore are building this summer.

CALIFORNIA NOTES.

The Merchants' Association of San Francisco is making preparations for its annual dinner. Among those invited this year are Messrs. Plath of "The Ferneries" and McLellan of the Burlingame Nursery, as representatives of the "Growers and Horticulturists." An interesting feature is that this dinner will be given in the banquet hall of the St. Francis Hotel, which will be left for the occasion as the earthquake-fire left it, twisted, torn and cracked and burned in so far as a steel and concrete-built room is burnable. On all sides of the St. Francis extend ruins—gutted office buildings, ragged business blocks, Nob Hill wrecks, trampled Union square and the remnants of club structures.

The labor of many years on the part of Professor E. W. Hilgard, of the State University, has culminated in the production of his great volume on "Soils," the final proof sheets of which were received and corrected by him this week and sent back to the firm of New York publishers that is to print the book. The rank which this immense volume on soils may be expected to take in the realm of scientific literature is easily guessed when it is recalled that his fame as a soil analyst and expert is such that a year ago when the Minister of Russia desired an authoritative word about the condition of the famous black earth region, a region where the soil had steadily deteriorated, when an analysis was to be made of this earth so that Russia might know and mend the trouble if possible, samples were sent to Professor Hilgard to analyze and report upon its character.

NEWPORT NOTES.

Charles Hurn has returned after completing the laying out of a large place in New Jersey.

Newport gardeners are depressed by the present unusually prolonged spell of wet and foggy weather, which is also having a bad effect on business for florists.

Your announcement in last week's issue that Messrs. James and William Scott had gone into the nursery business was interesting news to many here to whom their success will be gratifying.

Rose Hermosa the subject of Mr. Case's article in last week's issue of HORTICULTURE was at one time extensively grown in Newport. It is seen occasionally still. To be effective this rose must be planted in large numbers.

S. G. Harris, Tarrytown, N. Y., offers \$15.00 for hybrid tea roses to be competed for at the August exhibition of the Newport Horticultural Society. Mr. Harris is a strong believer in the future of this class of roses especially for planting in quantity in localities where roses are most needed in the late summer and early fall.

PERFECTLY SATISFIED.

If the HORTICULTURE will get me the same results in advertising this year as it did the past year, I will be perfectly satisfied.

Respectfully yours,

ANT. C. ZVOLANEK.

Convention Topics

THE SOUVENIR BOOK.

To offset a wrong impression, created by a communication from a member of this club, recently published in the trade papers, we wish to state that the reference made to the publication of the Dayton souvenir being left to "private enterprise," was made without the knowledge of the actual conditions and does an injustice to H. M. Altick, in charge of this work.

We therefore, by motion of this club, fully endorse H. M. Altick's statement of facts published in a recent issue of this paper, as correct in every respect, and herewith assure the patrons of the Souvenir, and the members of the S. A. F. & O. H. that their support of this publication will aid the Dayton Florists' Club in making a successful convention.

DAYTON FLORISTS' CLUB.

J. B. Huss, president; Charles Lutzenberger, vice-president; Horace M. Frank, secretary; H. H. Ritter, treasurer.

CINCINNATI TO DAYTON.

The committee on transportation to the Dayton convention have decided to go via the C. H. & D. R. R. From the present outlook we will have a large delegation from this city. Dayton is but 60 miles from Cincinnati and some of the craft will run up just for the opening day. The main party will leave here Tuesday, Aug. 21, at 8.15 A. M., although we can take the Big 4 or the traction cars at any time if more convenient; \$2.20 for the round trip is the best rate that can be secured. Those who wish to return the same day can do so, leaving Dayton at 8.35 P. M.

F. W. BALL.

A WEDDING DECORATION.

See Frontispiece.

Our frontispiece shows a very pleasing floral decoration for a wedding. One especial point of interest lies in the fact that the affair took place in far-away Spokane, Washington, where the great variety and abundance of material appropriate for such work which exists in other sections is not obtainable; hence, a commission of this kind is accomplished under difficulties. Miss Amy K. Luffman, who planned and executed the work, writes that the lily of the valley and smilax were home-grown, the longiflorum lilies were shipped from California and the adiantums from Chicago. Miss Luffman was formerly of Birmingham, Ala., where her father is engaged in landscape work.

OBITUARY.

Michael Galligan, a well-known gardener of Attleboro, Mass., died on July 20, aged 60 years.

Joseph Forsyth Johnson, a well known landscape gardener and writer on landscape topics, died on July 17, aged 67 years.

Mrs. Thomas S. Joy, wife of the senior member of the firm of Joy & Sons Company, Nashville, Tenn., died July 8, leaving a family of four daughters and one son, with her husband, to mourn the loss of a devoted mother and wife.

NEWS OF THE CLUBS AND SOCIETIES.

MASSACHUSETTS HORTICULTURAL SOCIETY.

On Saturday, July 21, there was a special sweet pea exhibition at Horticultural Hall, Boston. W. J. Clemson won first prize for display of thirty varieties, twenty-five blooms of each; for twelve varieties Jos. Thorpe, A. E. Harlshorn and Wm. Whitman were the prize winners; for fifty sprays of any white variety the winners were O. B. Kenrick, A. E. Hartshorn and W. J. Clemson, the variety staged being the same in each instance, Dorothy Eckford. In the classes for specified colors the winner and the name of the variety staged, in each case, were as follows: Rose colored, E. L. Lewis with American Queen; blue or purple, E. L. Lewis with Helen Peirce; lavender, A. E. Hartshorn with Mrs. George Higginson, W. J. Clemson, and O. B. Kenrick, each with Lady Grisel Hamilton; red or crimson, O. B. Kenrick with King Edward VII; orange or salmon, W. J. Clemson and E. L. Lewis with Miss Wilmott and Mrs. A. W. Blake with Lady Mary Curry; any other color, E. B. Lewis with Maid of Honor, the same with America, and O. B. Kenrick with Stanley. There was an interesting display of other plants and flowers including hardy aquatics and achimenes from Mrs. J. L. Gardner, orchids from J. E. Rothwell who received a certificate of merit for *Cypripedium Rolfe*, herbaceous flowers from R. & J. Parquhar & Co., Mrs. J. B. Lawrence, Harvard Botanic Garden and others, dahlias, hydrangeas, poppies, lilies, phloxes, etc., from many other exhibitors, also splendid collections of small fruits and vegetables. Gooseberries that won in the American classes were Chautauqua and Triumph, and in the foreign classes Industry and Whitesmith. The leaders in the tomato classes were Stone and Eclipse shown by Wilfrid Wheeler.

ST. LOUIS FLORISTS' CLUB.

The St. Louis Florists' Club held a well-attended meeting at Edwardsville, the home of the president, J. F. Ammann, on July 12. Officers for the coming year were nominated and the election will take place at the next meeting. The following names are in nomination: President, Prof. H. C. Irish, E. W. Guy and Frank J. Fillmore; vice-president, Fred C. Weber, John Cannon and George Aiegermueller; secretary, Emil Schray, J. J. Beneke; treasurer, R. Windt, Chas. A. Juengel, A. G. Bentzen, Henry Lorenz; trustee, to serve for three years, C. A. Kuehn, A. Fehr, William Winter, R. J. Scott.

TARRYTOWN HORTICULTURAL SOCIETY.

The schedule for the eighth annual exhibition of this energetic organization is out and presents the usual generous list of regular and special prizes, amounting in the aggregate to a large sum. The show is set for Tuesday, Wednesday and Thursday, October 30, 31, and November 1. Copies of the schedule may be obtained from the secretary, E. W. Newbrand, Tarrytown, N. Y.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Special Prizes.

W. Wells of Merstham, Surrey, England, offers gold, silver gilt and silver medals for six varieties of chrysanthemums two of each on 12-inch stems. The following varieties are eligible in this competition: Mrs. H. Partridge, Mrs. D. Willis James, Merstham Crimson, Mary Ann Pickett, Beatrice May, T. Richardson, Mrs. Beaume, E. J. Brooks, Mrs. F. F. Thompson, Mrs. Wm. Knox, Mrs. J. E. Dunn and Miss May Siddon.

Prizes of \$50, \$25 and \$10 are offered for twelve blooms on 24-inch stems, for the best seeding or sport not yet in commerce. The color to be white, pink or yellow, the name to be given by the donor of the prize.

Charles H. Totty offers prizes of \$12, \$8 and \$5 for twelve blooms in twelve varieties, stems not over 12 inches long, introductions of 1906. Open to all.

F. R. Pierson offers a silver cup for 36 chrysanthemums, six varieties, six blooms of each, introduced in America in 1905 and 1906.

Nathan Smith & Son offer \$25 for best 24 blooms of American origin, introductions of 1904, 1905 and 1906; three varieties—white, pink and yellow, eight blooms of each, shown in separate vases.

Vaughan's Seed Store offers a silver cup, value \$15, for the best specimen bush chrysanthemum plant, which has not received any other award. Open to private gardeners only.

DAVID FRASER, Secretary.
Pittsburg, Pa.

COLUMBUS FLORISTS' CLUB.

Last Tuesday evening, the last regular meeting of the month took place at our rooms in the Iroquois Hall. More members were present than for a long time. President Stephens was in the chair, and all the other officers were with us. Amongst other regular business, the financial report of the annual picnic showed a small balance to the good. Two active members were elected, namely: Leo Bauman and E. D. Batelle. The most interesting topic of the evening was a discussion, as to how our members should attend the Dayton convention. Consensus of opinion seemed to favor a special car, as it looks now as if something like fifty would go from here. It was finally voted that a committee, consisting of Messrs. Woodrow, McKellar, and Faxon formulate a plan, and report at the next meeting; suitable badges and a floral decorated car have been suggested. At this meeting many preliminary matters pertaining to the Chrysanthemum Show in November next were arranged; the various committees will shortly be announced. After a most profitable evening, the meeting at a late hour adjourned to Tuesday evening, August 7th, when the final plans regarding going to Dayton will be arranged.

NEBRASKA STATE HORTICULTURAL SOCIETY.

The summer meeting of this society was held at Omaha on July 11 and 12, with President J. H. Haddkinson in the chair and about fifty representative horticulturists present. An address of welcome was made by Mayor J. C. Dahlman, who handed over the city—parks, boulevards and all—to the visitors, in due form. President James Y. Craig, of the park board, gave a brief talk on the parks and boulevards of Omaha. J. J. Hess, president of the Omaha Florists' Club, made response to the address of welcome, on behalf of the visiting society. Among the papers and addresses delivered at the various sessions were the following: "Beautifying the Home Grounds," R. C. Peters; "Results of Spraying at the Chambers Experiment Station," J. L. Coppoc; "Care and Planting of Trees," W. R. Adams; "Bedding Plants, and Planting Beds," Ed. William; "The Ideal Carnation," Irwin Frey; "The Care of Cut Flowers," John Bath; "Roses," M. Stauch; "Our Unused Capital," C. S. Harrison; "Civic Improvement," Judge W. W. Slabaugh.

There was a fine exhibition of fruits and flowers. Members and their ladies were given an automobile ride through the parks on Thursday forenoon.

NORTH SHORE HORTICULTURAL SOCIETY.

In connection with the regular meeting of the above society on Friday, July 20, there was an informal exhibit of sweet peas. Some very good flowers were shown, the principal exhibitors being the Spaulding estate, F. E. Cole, gardener; Mrs. Scott Fitz, W. E. Allen, gardener; Mrs. W. B. Walker, Thomas Jack, gardener; Mrs. Philip Dexter, James Salter, gardener; Mrs. F. L. Higginson, Mr. Scott, gardener, and Arthur G. Jackson.

HARTFORD FLORISTS' CLUB.

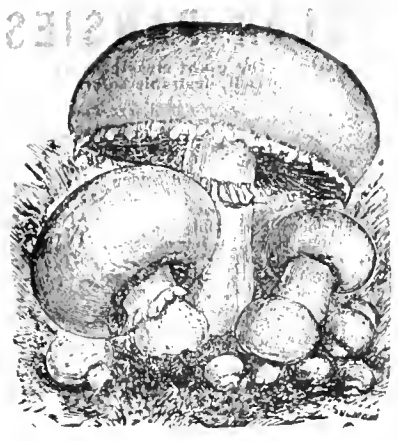
About thirty-five members of the New Haven, New London and Bridgeport Horticultural Societies were entertained at Hartford, Conn., by the Hartford Florists' Club, on July 18. Bushnell and Elizabeth parks, and the gardens of the Goodwin estate were visited and the guests had a delightful and instructive outing.

NEWS NOTES.

The Nanz Floral Company of Owensboro, Ky., has been incorporated as successors to the business of the late C. G. Nanz.

Fire in the office building of Wm. R. Hughes' greenhouse at Rome, N. Y., on July 13, caused a loss of about \$150, which was covered by insurance.

The city of Columbus, Ohio, has appropriated for the care of Franklin Park the coming year \$5,500; and for Goodale Park \$5,000; while these amounts are \$2,000 and \$1,500 respectively more than last year, they are very far short of what should be given to keep these grounds in presentable condition. Both of these parks with proper care could be made most attractive.



MUSHROOM SPAWN

MICHELL'S Superior English Milltrack
New Importation Just Received

Our strain of Mushroom Spawn after being grown by planters for years, has been found to be far superior to that offered by many dealers. Price, per doz. bricks, \$1.50 \$6.00 per 100 lbs., per 1000 lbs. \$55.00; 250 and over at 1000 lb. rate.

MICHELL'S Pure Culture Spawn

This brand is the result of careful and scientific experimenting, has been tested thoroughly and pronounced a perfect success; produces mushrooms of large size and of excellent quality. Price 12 bricks, \$1.80. \$3.75 per 25 bricks; 50 bricks, \$7.00; \$13.50 per 100 bricks; 1000 bricks, \$25.00; 250 bricks at 1000 brick rate.

Send for our summer edition Wholesale Catalogue of SEEDS, BULBS, and every requisite for the greenhouse and garden.

HENRY F. MICHELL CO.
1018 Market St. Philadelphia, Pa.

Seed Trade Topics.

Among the killed in the recent wreck of the British steamer train at Salisbury, England, was Louis Goeppinger. Mr Goeppinger was on his way home from one of his frequent visits to this country, and was among those who took this ill fated train. His many friends in this country will regret his tragic death.

The fears expressed in these columns some weeks ago that the pea crop would be a short one, have been verified. It is now estimated that the crop in Michigan will not be above 50 to 60 per cent., while Canada and Wisconsin will do slightly better. The shortage in the large-podded varieties will no doubt fall below the above estimates. A shortage in the dwarf-wrinkled sorts may not prove an unmixed evil, as considerable quantities of them were carried over, and moreover, sales have fallen off to a marked extent during the past two or three years.

It is yet too early to give a reliable forecast of the bean crop, but a large shortage in most of the green pod varieties will be fortunate for both growers and dealers. A heavy crop would surely demoralize prices. The situation as to wax pods is easier, but a moderate shortage even in these would be welcome. So far as can be ascertained at this time, green beans, both wax and green pods, have sold readily and at fair prices, and no doubt

FARQUHAR'S GRASS SEED MIXTURES

ARE CELEBRATED FOR
Hardiness, Purity and Permanency

Specially blended to suit all conditions of soil for Meadow, Pasture, Lawns, Golf Links, Putting Greens, Tennis Courts, Terraces, Embankments and Shady Spots.

Samples and Prices Upon Application
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Seedsman, Nurserymen and Florists
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THOS. J. GREY & CO. Seedsman

Agricultural Machinery Repaired
MOWERS SHARPENED
32 South Market St., Boston

MAKERS of PURE CULTURE TISSUE
COLUMBIA, ALASKA, BOHEMIA



MUSHROOM SPAWN

Fresh Spawn Always on hand.
WRITE FOR PRICES.

COCHRAN MUSHROOM & SPAWN CO.
911 CHEMICAL BLDG. ST. LOUIS, MO

HELLER'S MICE-PROOF SEED CASES.



Send for Circulars.

Heller & Co., Montpelier, O.

New Crop of my Christmas Flowering SWEET PEA SEED

Christmas Pink and Florence Denzer, pure white, will be ready August 1st.

Those two well-known varieties are raised by over 2000 florists all over the world.—Here is one, out of many letters received:

Dear Sir: My sweet peas, which I raised from your seed, received the highest award at the Carnation Exhibit in Boston, being over 18 inches long.

JOHN T. GALE, Tewksbury, Mass.

Price 1-4 lb. 75c.; per lb. \$2.00
PAILED FREE

New Christmas Flowering Hybrids, 20 to 30 colors, mostly blue, salmon, purple, lavender, in mixtures; also Mrs. Edie Wild, carmine, separate color. 1 Trade pkt. \$1.00, 5 Trade pkts. \$4.00; not more than 5 pkts. taken in order to each customer just now. Those new hybrids are just as free bloomers as Christmas Pink and Florence Denzer, some much larger, and received first class Certificate of Merit by the Mass. Horticultural Society, Boston, March 24.

All seed originated with me is sold in my original sealed pkts., with cultural direction, to the growers, but none for seedsmen for propagating.

Orders filled strictly in rotation.

ANT. C. ZVOLANEK
Bound Brook, N. Jersey

FOR PROMPT SHIPMENT BERMUDA HARRISII

Also

Azores-grown Frusia

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS.

Burpee's Seeds PHILADELPHIA

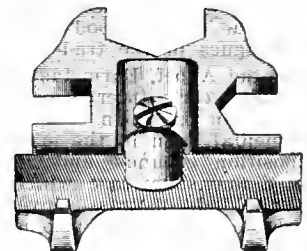
Blue List of Wholesale Prices mailed only to those who plant for profit.

THE CHOICEST STRAINS OF STOCKS
Including
GINERARIA, CALCEOLARIA, CYCLAMEN, PANSY, PETUNIA, etc.

can be had from
JAMES VICK'S SONS,
Rochester, N. Y.

Gabbage Worms

Killed by lightly dusting with
HAMMOND'S SLUG SHOT
For Pamphlet write to Fishkill-on-Hudson, N. Y. Sold by Seedsmen



ROYAL LAWN MOWER SHARPENER

The best device of its kind to date. Makes a perfect edge. A child can use it. Order a sample and see for yourself. 75 cts. postpaid. Liberal discount to Agents.

G. C. WATSON, Dobson Bldg.,
Cor. 9th & Market Streets, PHILADELPHIA

QUALITY SEEDS BULBS PLANTS

SEND FOR CATALOGUE
ARTHUR T. BODDINGTON
342 West 14th St., New York.

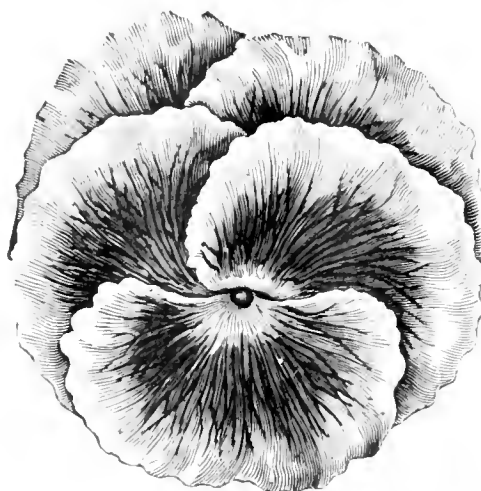
Rawson's Mammoth Black Seeded Butter Lettuce.

The ideal fall lettuce for out door culture in New England. Sow from now to August 15th. (A trial will convince anyone of its superior merits.)

Per pkt., .05; per doz., .75; per 1/2 lb., .40; per lb., \$1.25.
Mailed free at above prices.
W. W. Rawson & Co., 5 Union St., Boston, Mass.
Remember our New Location.

NEW CROP JOHNSON'S POPULAR PANSIES

The varieties offered herewith while not strictly of the giant class produce large flowers of heavy texture, and a wide range of rich, desirable colors—



	Large Trade Pkt. (2000 seeds)	Per Oz.		Large Trade Pkt. (2000 seeds)	Per Oz.
Azure Blue	20c	\$.75	Peacock, ultramarine blue, deep		
Belgian Striped	20	.80	claret and white	20c	\$.75
Black (Faust)	20	.75	Prince Bismarck, beautiful golden		
Bronze	20	.75	bronze	20	.75
Emperor Frederick (new) dark red	20	.75	Quadricolor, or Pheasant's Eye		
Emperor William, ultramarine blue	20	.75	(Rainbow), beautiful	20	.75
English Large Flowering, fine mixed	25	1.25	Red Riding Hood, red free bloomer	20	.80
Fire Dragon, fiery orange and bronze	20	.75	Red Victoria (new), very fine	20	.75
Fire King, golden yellow, upper			Snow Queen, satiny white	20	.75
petals purple	20	.75	Striped and Mottled, large flowered	20	.75
French, large flowering, finest mixed	20	.80	White, pure	20	.75
Gold Margined	20	.75	White, with dark eye	20	.75
Havana Brown	20	.75	Yellow, pure	20	.75
Lord Peacock, deep purple violet	20	.75	Yellow, with dark eye	20	.75
Mahogany colored	20	.75	Fine, mixed	10	.60
Meteor (new), bright brown	20	.75	Fine English, Mixed	20	.75

Send for our complete Pansy List. Headquarters for high grade French and Dutch Bulbs. Get our prices. we can interest you.

JOHNSON SEED CO. HERBERT W. JOHNSON, of the late Firm of Johnson & Stokes, President
217 Market St., PHILADELPHIA, PA.

seed will be in better demand next season than last. This will help some.

But little can be said with confidence about corn though indications at this time are fairly favorable, and the same may be said of vine seeds. Not much has been added to the sum of knowledge about the onion seed crop, but comparatively definite information should be at hand within a few weeks.

The well-known firm of Johnson and Stokes after an equitable division of its property is now operating as two independent concerns side by side, the double building which they occupied having been partitioned off into two stores. Both Mr. Johnson and Mr. Stokes have been an honor and credit to the seed business, and they will have the cordial good wishes of their colleagues in the trade.

Mr. Conrad Appel, Darmstadt, takes part at this year's International Exhibition, Milan, Italy, in constructing an ornamental lawn in the middle of the exposition grounds and in exhibiting a fine show case which will contain all kinds of grass, clover and tree seeds and some rare specimens of conifer cones.

Messrs. Rennie & Co., seed merchants of Toronto, are opening a branch on McGill street as soon as alterations are completed.

Columbus, O.—The seedsmen are quite busy with celery plants and turnip seeds; it has been an exceptionally good year for vegetable plants of all kinds. With every week that passes the advance inquiries and orders for bulbs, assure an active fall season soon to open. We are having a great deal of rain.

A NEW FEATURE HELP IT ALONG THE DAYTON SOUVENIR

will contain a

Pictorial Directory

of leading florists, seedsmen and nurserymen of the United States and Canada THE OBJECTS BEING

1. To establish your personality among the trade.
2. To aid in identification at the convention.
3. To furnish a pleasing memento of the convention, a reminder of pleasant associations.
4. A reference book, invaluable in choosing future business associates.
5. In interchange of business by mail, a likeness is next to a personal acquaintance.

Whether you attend the convention or not, it is to your interest, from a business standpoint, to be represented as a leading, up-to-date florist, one telegraphic order may more than pay the cost of your advertisement in this book, to be distributed over the United States and Canada.

Besides the usual number of fine illustrations of Dayton and vicinity, one great feature of this souvenir will be a section devoted to civic improvement and welfare work, in which our city leads, and which will be finely illustrated, thus becoming a reference book of incalculable benefit.

Upon the receipt of \$5.00 and your photograph, we will insert your business card, illustrated with your picture, and mail to you a copy of the Souvenir and your halftone cut, prepaid. Copy must be in by August 5th. Address,

H. M. ALTICK, Manager, Souvenir Department, Dayton, Ohio

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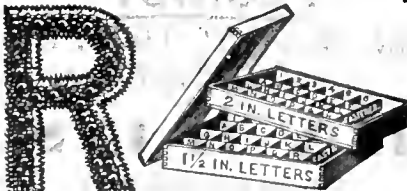
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TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO July 23	ST. LOUIS July 23	PHILA. July 23	BOSTON July 26
ROSES				
Am. Beauty and Edgely Fan. & Sp.	15.00 to 20.00	15.00 to 20.00	25.00 to 35.00	8.00 to 10.00
" Extra.....	8.00 to 10.00	10.00 to 12.50	15.00 to 20.00	6.00 to 8.00
" No. 1.....	4.00 to 6.00	6.00 to 8.00	10.00 to 12.50	4.00 to 6.00
" Lower grades.....	2.00 to 3.00	3.00 to 5.00	5.00 to 6.00	.50 to 2.00
Bride & 'Maid—Fan. & Sp.....	6.00 to 8.00	4.00 to 5.00	6.00 to 8.00	3.00 to 4.00
" Extra.....	4.00 to 5.00	2.00 to 3.00	6.00 to 8.00	1.00 to 2.00
" No. 1 and Lower gr.....	2.00 to 3.00	..... to 3.00	3.00 to 5.00	.35 to 1.00
Liberty, Fancy.....	4.00 to 6.00	4.00 to 5.00	10.00 to 12.50	4.00 to 8.00
" Ordinary.....	2.00 to 3.00	2.00 to 3.00	4.00 to 8.00	.50 to 3.00
Richmond, Fancy.....	4.00 to 6.00	4.00 to 5.00	10.00 to 12.50	4.00 to 8.00
" Ordinary.....	2.00 to 3.00	2.00 to 3.00	4.00 to 8.00	.50 to 3.00
Golden Gate, Chatehay, Fancy.....	4.00 to 6.00	4.00 to 5.00	5.00 to 6.00	3.00 to 4.00
" Ordinary.....	2.00 to 3.00	2.00 to 3.00	2.00 to 4.00	.50 to 1.00
Kaiserin, Carnot, Fancy.....	..... to 2.00	5.00 to 6.00	6.00 to 8.00	4.00 to 8.00
" Ordinary.....	..... to 2.00	2.00 to 4.00	3.00 to 5.00	.50 to 3.00
CARNATIONS				
Fancy.....	1.00 to 1.50	1.50 to 2.00	1.50 to 2.50	.75 to 1.00
Ordinary.....	.50 to .75	.75 to 1.00	.75 to 1.00	.35 to .75
MISCELLANEOUS				
Cattleyas.....	..... to 10.00	..... to 10.00	..... to 10.00	30.00 to 50.00
Lilies.....	5.00 to 6.00	..... to 10.00	..... to 12.00	5.00 to 8.00
Asters.....	..... to 10.00	..... to 10.00	1.50 to 2.50	.75 to 1.00
Lily of the Valley.....	2.00 to 4.00	..... to 10.00	3.00 to 4.00	2.00 to 4.00
Sweet Peas.....	..... to 40.00	..... to 10.00	.15 to .75	1.00 to 1.20
Mignonette.....	..... to 10.00	..... to 10.00	..... to 10.00	..... to 1.00
Adiantum Cuneatum.....	.50 to 1.00	..... to 10.00	..... to 10.00	.75 to 1.00
" Crownatum.....	.50 to .75	..... to 10.00	..... to 1.00	..... to 1.50
Smilax.....	10.00 to 15.00	..... to 12.50	..... to 15.00	12.00 to 16.00
Asparagus Plumosus, strings.....	25.00 to 35.00	25.00 to 50.00	25.00 to 50.00	50.00 to 50.00
" & Sprenger bunches	25.00 to 35.00	25.00 to 50.00	25.00 to 50.00	20.00 to 35.00

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A discount for cash with order.

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Cut Flower Market Reports

BOSTON Business remains at a standstill, the demand, either local or distant, being practically nothing. There is an abundance of cheap material in this market for which there is no sale either at present or in prospect. The best roses are Carnot and Kaiserin and these sell when nothing else can be moved. Sweet peas of elegant quality and wide variety of color are in great abundance but they are a deal weight. Asters begin to pile up; quality all right for the season.

BUFFALO No improvement was shown in the market over previous week. Up to Thursday business was at a standstill, but the balance of the week seemed to pick up somewhat. On Saturday and Sunday the market was pretty well cleaned up on out-door material. Gladioli and asters just coming on and were sold at sight. There has been no special demand on roses and carnations, the market being pretty well stocked on both and the prices low. The same may be said of sweet-peas. Lilies have been in fair demand, while lily of the valley and other flowers in good supply and demand normal.

CHICAGO Dullness is still reigning supreme over the market. Some good stock is to be found now and then, but the majority of it is hard to get rid of. The usual vacation trips are all in order, while the faithful few stay behind to man the oars and make some show of business. Stock is all off color, and hard to find customers.

COLUMBUS There has been quite a semblance of activity in the market during the past week. Stock seems in a little better quality than for some weeks; asters have made their appearance, and while the quality is only fair, they work in nicely as a change. Some very good Kaiserin Augusta Victoria roses are in the market.

INDIANAPOLIS Mid-summer dullness is in evidence by a large majority at the present time and with exception of funeral work occasionally there is practically nothing doing. Roses continue to arrive in poor condition, the best selected stock bringing only mid-summer prices. American Beauties are above the average and bring good prices. Outside stock is offered very freely the range covering peas, lilies, asters, dahlias, etc. We are having a great deal of rain this summer and in consequence outdoor flowers and plants are in fine condition. Bedding all through this section is making a fine showing. Carnations in the field are

having a very good season. A severe hail storm passed over Indianapolis, Ind., and vicinity, July 12th. Much damage was done to all forms of vegetation. A. Wiegand & Sons were the heaviest losers, of the commercial florists, one 150 ft. house being destroyed completely, besides two hundred fancy rubber plants and numerous other things.

LOUISVILLE Business conditions last week were about as good as usual for July. Carnations and roses of fair quality are in good supply and find a good demand. Lilies find good sale and are in great supply, as also are daisies and other choice stock.

NEW YORK Up to this writing the market has not been overloaded with stock and it has been possible to move anything at fairly good figures. With few exceptions Bridesmaid and Bride roses are diminutive in size and when small roses are wanted Killarney, Testout, Chateau, and Kaiserin are called for in preference. Beauties are light and heavy in supply, by turns, good stock selling well. Carnations have been doing nicely though the quality is going off rapidly. Asters are more of a feature than they were and the price is shrinking. Harrisii lilies are salable at good figures when the quality is right. Orchids are few in numbers with no surplus. Indications point to a slower market which is the rule with the advent of August.

PHILADELPHIA Few features of interest developed during the past week. Receipts and clearings were about as last reported. Asters have improved a little, being now longer stemmed and larger. They find ready sale. Sweet peas seem to have suffered more from the peculiar season than most out door subjects. Drowned one day and cooked the next has been too much for them. Bridesmaids and Beauties are only passable and from distant sources at that. Same as to carnations. No Richmonds to speak of. Libertys and Killarneys fair. Good Kaiserins and lily of the valley scarce and in good demand.

FARM AND GARDEN SEEDS IN MANCHURIA.

Consul-General Sammons, of Newchwang, reports that the authorities there are exhibiting much interest in the procurement of agricultural seeds, and suggests that American producers have an opportunity to introduce their products. He writes: "In this province the Chinese Government is examining into the ques-

tion of utilizing foreign agricultural seeds. The same is true of other provinces. Letters addressed to the viceroys in Chinese would no doubt receive consideration. The Governor-General at Mukden informs me that he is very much interested in this subject, and is anxious to obtain various new varieties of seed suitable for the southern Manchurian climate, which, from an agricultural standpoint, is somewhat similar to Utah. Through the Japanese agricultural adviser, Mr. Sojiro Yokoyama, new varieties of grass seed are now being ordered from Japan for lower Manchuria. Many of the Japanese plants and seeds suitable for a mild, damp climate, do not thrive in the dry climate that prevails in some sections of Manchuria. American beet seeds are to be extensively experimented with in Manchuria next season.

"The new agricultural college at Chinanfu, province of Shangtung, is in charge of Mr. S. Yatsui and other Japanese agriculturists, and American seed houses may deem it worth while to communicate with the parties in charge of institutions of this nature as well as advisers to viceroys and governors-general in agricultural matters, etc."

MORRIS COUNTY, N. J., NOTES.

Stock in and around Madison and Morristown looks exceedingly well for this time of the year. Business in landscaping and planting out was better than ever this spring. Stock for planting had to be procured from outside.

John Heeremans, president of Morris County Gardeners' and Florists' Society, is having a pleasant two month's at home in England. He has his family with him and intends to visit many of the places of note in England and Scotland, and, if time permits, also Ireland.

Marshall Crisman has given up the Dr. Waller greenhouses, which he has run commercially for the past three years, and taken a private place in Mt. Kisco, N. Y.

Wm. Charlton, treasurer of Morris County Gardeners' and Florists' Society, after an illness of two months, is well again.

John Jones of Convent reports a payroll double that of every season in his experience.

Harry Payne of the "Dover" greenhouses, starts with his wife for England on the 28th inst.

E. REAGAN.

The florists of Clark and Champaign counties, Ohio, have organized. The officers of the new association are John M. Good, president; R. Murphy, vice-president; C. W. Schmidt, secretary; R. McGregor, treasurer.

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	Last Half of Week ending July 21 1906	First Half of Week beginning July 23 1906		Last Half of Week ending July 21 1906	First Half of Week beginning July 23 1906
Roses			Carnations, Fancy	2.00 to 3.00	2.00 to 3.00
Am. Beauty and Edgeley fan and sp.	15.00 to 25.00	15.00 to 25.00	Carnations, Ordinary	1.00 to 1.50	1.00 to 2.00
" extra.....	10.00 to 15.00	10.00 to 15.00	Cattleyas.....	..... to 25.00	35.00 to 40.00
" No. 1.....	6.00 to 10.00	6.00 to 10.00	Lilies	10.00 to 12.00	10.00 to 12.00
" Lower grades.....	1.00 to 3.00	.50 to 4.00	Asters.....	..... to .....	..... to
Bride & 'Maid, fan and sp.....	3.00 to 4.00	3.00 to 4.00	Lily of the Valley	1.00 to 3.00	1.00 to 2.50
" extra.....	2.00 to 3.00	2.00 to 3.00	Paeonies.....	..... to .....	..... to
" No. 1 and lower grades.....	.50 to 1.00	.50 to 1.00	Sweet Peas, bunches	1.00 to 4.00	1.00 to 4.00
Liberty, fancy.....	6.00 to 8.00	6.00 to 8.00	Mignonette.....	.50 to 1.00	.50 to 1.00
" ordinary.....	.50 to 4.00	.50 to 2.00	Adiantum Cuneatum.....	..... to .50	.25 to .50
Richmond, fancy.....	0.00 to 8.00	6.00 to 8.00	" Croweanum.....	1.00 to 1.50	1.00 to 1.50
" ordinary.....	.50 to 4.00	.50 to 2.00	Smilax	6.00 to 8.00	6.00 to 8.00
Golden Gate, Chæney, fancy.....	4.00 to 6.00	3.00 to 6.00	Asparagus Plumosus.....	..... to 25.00	..... to 25.00
" " ordinary.....	.50 to 2.00	.50 to 2.00	" " & Sprenger, bunches	..... to .....	..... to
Kaiserin, Carnot, fancy.....	4.00 to 6.00	3.00 to 6.00			
" " ordinary.....	.50 to 2.00	.50 to 2.00			

ORCHIDS AT ALL SEASONS
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	CINCINNATI July 23	DETROIT July 23	BUFFALO July 23	PITTSBURG July 23
ROSES				
Am. Beauty and Edgely, fan and sp.	20.00 to 25.00	15.00 to 25.00	20.00 to 25.00	20.00 to 25.00
" extra.....	15.00 to 20.00	10.00 to 15.00	12.00 to 20.00	15.00 to 18.00
" No. 1.....	10.00 to 12.50	6.00 to 8.00	6.00 to 12.00	10.00 to 12.00
" Lower grades.....	5.00 to 8.00	5.00 to 6.00	3.00 to 6.00	4.00 to 5.00
Bride and Maid, fan, and sp.....	..... to 8.00	6.00 to 8.00	5.00 to 6.00	..... to 4.00
" extra.....	4.00 to 6.00	4.00 to 6.00	4.00 to 5.00	..... to 3.00
" No. 1 and Lower gr.....	2.00 to 3.00	2.00 to 4.00	3.00 to 4.00	..... to 2.00
Liberty, fancy.....	..... to 8.00	..... to 8.00	5.00 to 7.00	..... to
" Ordinary.....	3.00 to 5.00	4.00 to 6.00	3.00 to 5.00	..... to
Richmond, Fancy.....	..... to 8.00	6.00 to 8.00	6.00 to 7.00	6.00 to 8.00
" Ordinary.....	3.00 to 5.00	3.00 to 5.00	3.00 to 6.00	2.00 to 4.00
Golden Gate, Chateauf, Fancy.....	..... to 8.00	6.00 to 8.00	5.00 to 6.00	..... to 4.00
" Ordinary.....	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00	..... to 2.00
Kaiserin, Carnot, Fancy.....	..... to	4.00 to 6.00	6.00 to 7.00	10.00 to 12.00
" Ordinary.....	..... to	2.00 to 4.00	3.00 to 6.00	4.00 to 6.00
CARNATIONS				
Fancy.....	..... to 3.00	1.50 to 2.00	1.50 to 2.00	..... to 2.00
Ordinary.....	1.00 to 2.00	.75 to 1.00	.75 to 1.00	..... to 1.00
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to 100.00	..... to .....	..... to
Lilies.....	10.00 to 12.50	10.00 to 15.00	3.00 to 15.00	15.00 to 18.00
Asters.....	..... to .....	..... to	1.00 to 2.00	1.00 to 4.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00
Sweet Peas.....	.25 to .35	..... to .25	.15 to .25	.20 to .30
Mignonette.....	..... to .....	..... to	1.00 to 1.50	..... to
Adiantum Cupeatum.....	..... to 1.00	..... to .....	.50 to 1.00	..... to
" Croweanum.....	..... to .....	..... to	1.00 to 1.50	1.25 to 1.50
Smilax.....	..... to 12.50	..... to 12.50	..... to 15.00	12.50 to 15.00
Asparagus Plumosus, strings.....	40.00 to 50.00	25.00 to 50.00	25.00 to 35.00	25.00 to 50.00
" " & Sprenger, bunches..... to 35.00	25.00 to 35.00	25.00 to 35.00	35.00 to 50.00
Gladiolus..... to to to to

Geo. A. Sutherland Co.

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34 HAWLEY STREET - BOSTON

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27th ST., N. Y.

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Fresh cut Palmetto & Cypas Palm Leaves, Galax, Leu-
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Jerusalem cherries, seedlings, 25c. per 100; 2 1/2-in. pots, \$3.00 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

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Fine collection of Best Peonies. Complete Peony and Plox Manuals, 25 cents each. C. S. Harrison's Select Nursery, York, Nebr.

POT HANGERS.

Pot bangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Primula Obs. Grandiflora, 4 in. pots. \$6 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

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Poehlmann Bros. Co., Morton Grove, Ill. Rose Plants.

American Beauties, 2-in., \$55.00; 3-in., \$80.00 1000. Cash. J. Henry Bartram, Lansdowne, Pa.

Roses. Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1-2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

1000 plants grafted Maids, 3 inch pots, fine stock, 2000 plants Richmond, own roots, 3 inch pots, very fine plants. Price \$10.00 per hundred, while they last. Cash with order. Robert Simpson, Clifton, N. J.

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SEED CASES—MICE PROOF.

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SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

STEAM TRAP.

E. Hippard, Youngstown, O. For page see List of Advertisers.

TSUGA CANADENSIS WANTED.

J. O. B., care of Horticulture. For page see List of Advertisers.

VEGETABLE PLANTS.

Plainfield Nursery, Plainfield, Ind. For page see List of Advertisers.

VENTILATING APPARATUS.

Lord & Burnham Co., 1133 Broadway, New York. For page see List of Advertisers.

Pierson U-Bar Co., 1 Madison Sq., N. Y. For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y. For page see List of Advertisers.

VENTILATING APPARATUS—Continued.

John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y. For page see List of Advertisers.

Weathered Co., 46 and 48 Marlon St., N. Y. For page see List of Advertisers.

Foley Mfg. Co., 471 W. 22nd St., Chicago. For page see List of Advertisers.

The Chicago Lifter, J. C. Moulger Co., 421 Hawthorne Ave., Chicago.

VIOLETS.

H. R. Carlton, Willoughby, O. Violet, Gov. Herrick. For page see List of Advertisers.

William Sim, Cliftondale, Mass. Princess of Wales. For page see List of Advertisers.

C. Lawritzen, Rhinebeck, N. Y. Marie Louise Violets.

WIREWORK.

Reed & Keller, 122 W. 25th St., New York. For page see List of Advertisers.

Wirework. Write for our catalogue Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

N. F. McCarthy & Co., 84 Hawley St., Boston. For page see List of Advertisers.

George A. Sutherland Co., 34 Hawley St., Boston. For page see List of Advertisers.

Welch Bros., 15 Province St., Boston. For page see List of Advertisers.

Buffalo.

Wm. F. Kastling, 283-87 Ellicott St., Buffalo, N. Y. For page see List of Advertisers.

Chicago.

J. A. Bndlong, 37 Randolph St., Chicago. For page see List of Advertisers.

Chas. W. McKellar, 51 Wabash Av., Chicago. For page see List of Advertisers.

Peter Reinberg, 51 Wabash Av., Chicago. For page see List of Advertisers.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St. Wm. Murphy, 125 E. 3d St.

Detroit.

Michigan Cut Flower Exchange, 38 & 49 Miami Av. Wm. Dilger, mgr. For page see List of Advertisers.

New York.

Wm. Stuart Allen Co., 53 W. 28th St., New York. For page see List of Advertisers.

J. S. Penrich, 110 W. 25th St., New York. For page see List of Advertisers.

Ford Bros., 48 West 28th St., New York. For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York. For page see List of Advertisers.

Alex. J. Guttman, 43 West 28th St. For page see List of Advertisers.

E. C. Horan, 55 West 28th St., New York. For page see List of Advertisers.

Phillip F. Kessler, 55 W. 26th St., New York. For page see List of Advertisers.

Julius Lang, 53 West 30th St., New York. For page see List of Advertisers.

A. H. Langjahr, 55 W. 28th St., New York. For page see List of Advertisers.

James McManus, 42 W. 28th St., New York. For page see List of Advertisers.

Chas. Millang, 59 West 29th St., New York. For page see List of Advertisers.

Frank Millang, 55-57 W. 26th St., New York. For page see List of Advertisers.

A. Moltz, 55-57 W. 26th St., New York. For page see List of Advertisers.

John J. Perkins & Son, 115 W. 30th St., New York. For page see List of Advertisers.

WHOLESALE FLORISTS—Continued.**New York.**

John I. Raynor, 49 W. 28th St., New York. For page see List of Advertisers.

W. F. Sheridan, 39 W. 28th St., New York. For page see List of Advertisers.

Traenkle & Schenck, 44 W. 28th St., New York. For page see List of Advertisers.

Hicks & Crawbuck, Inc., 76 and 78 Court St., Brooklyn, N. Y. For page see List of Advertisers.

Philadelphia.

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa. For page see List of Advertisers.

Leo Niessen Co., 1217 Arch St., Philadelphia, Pa. For page see List of Advertisers.

S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa. For page see List of Advertisers.

Edward Reid, 1526 Raunstead St., Philadelphia, Pa. For page see List of Advertisers.

Pittsburg.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa. For page see List of Advertisers.

Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa. For page see List of Advertisers.

New Offers in This Issue.**ASPARAGUS PLUM. NANA AND SPRENGERI; ROYAL PALMS.**

Yalaha Conservatory, Yalaha, Fla. For page see List of Advertisers.

BERMUDA HARRISII AND AZORES FREESIA.

Jos. Breck & Sons, Corp., Boston, Mass. For page see List of Advertisers.

CANE STAKES.

Wm. Elliott & Sons, New York. For page see List of Advertisers.

CARNATION VICTORY.

Guttman & Weber, New York. For page see List of Advertisers.

CATTLEYS JUST ARRIVED.

Lager & Hurrell, Summit, N. J. For page see List of Advertisers.

DAYTON SOUVENIR; PICTORIAL DIRECTORY.

H. M. Altick, Mgr., Dayton, Ohio. For page see List of Advertisers.

FERNS IN FLATS.

McIntichison & Co., 17 Murray St., N. Y. For page see List of Advertisers.

FIELD GROWN CARNATION PLANTS.

Chicago Carnation Company, Joliet, Ill. For page see List of Advertisers.

LILY BULBS AND CYCAS STEMS.

J. M. Thorburn & Co., 33 Barclay St., N. Y. For page see List of Advertisers.

PEAT, MOSS AND SILVER SAND.

C. W. Brownell & Co., Walden, N. Y. For page see List of Advertisers.

POT GROWN STRAWBERRY PLANTS.

Wilfrid Wheeler, Concord, Mass. For page see List of Advertisers.

POPULAR PANSIES.

Johnson Seed Company, Philadelphia, Pa. For page see List of Advertisers.

VIOLETS, SMILAX.

J. C. Schmidt Co., Bristol, Pa. For page see List of Advertisers.

During Recess

"Jest and youthful Jollity,
Quips and Cranks and Wanton Wiles,
Nods and Becks and wreathed Smiles,
Sport that wrinkled Care derides,
And Laughter holding both his sides."

PICNIC OF THE GARDENERS AND FLORISTS OF BOSTON.

A perusal of the doings of the various florists' organizations in this "good old summer time" will go far towards convincing the seeker for information that these bodies are rapidly developing into athletic *bands* with no end of inducement for everybody in the family to display sturdy strength and agility of one kind or another, and win trophies and fame. The program of the "Grand Annual Picnic of the Gardeners' and Florists' Club of Boston, at Waushakum Grove, South Framingham, Wednesday, July 25, 1906," looked for all the world like the list of games of the time-honored "Scotch Picnic," which, as far back as we can remember, has been the annually-recurring exponent of the out-door athletic attainments of Boston's braw lads and lassies.

It was a truly rural gathering, a goodly percentage of which was made up of the wives, sisters and little ones, the young men predominating, with just a sprinkling of the older generation, ever ready to prove to the youngsters that they hadn't yet grown stiff in the joints, even though the penalty might be a week of plasters and arnica. The list of prizes was a big one—everything being donated by members or friends of the club. The day was an ideal one—bright and yet cool—and the grounds proved to be well adapted for their purpose. President Wheeler and his corps of willing assistants worked like heroes all day long to make a success of the affair and make everybody happy, and they were successful in a marked degree.

Following is a list of the games and the winners:

Base ball: The single men beat the married men, 14 to 9; the boys under Hodgson beat the boys under Wheeler, 16 to 3; the girls under Miss Palmer beat the girls under Miss Wheeler, 10 to 9. Cricket: The private growers under James Wheeler beat the commercial men under F. E. Palmer. Tug-of-war: The private growers pulled the commercial men all over the farm. Other contests with the list of winners, first, second or third, in the order as named, were as follows: Races—50 yards for boys, T. Hiffe, T. Palmer, V. Lumsden; 50 yards for girls, Helen Vearse, Lillian Vearse, Harriet Coles; 10 yards for boys, Geo. Palmer, Jas. Harbison, Chas. Doten; 100 yards for girls, Florence Lumsden, Helen Vearse, Florence Eisenhardt; 50 yards for married ladies, Mrs. Robert Edgar, Mrs. A. Eisenhardt, Mrs. T. Neal; 100 yards for young ladies, Ella Palmer, Ethel Roy; 100 yards for club members, Thos. Brown, A. E. Shedd, F. Cannell; 100 yards sack race, Alex. Burr, J. McCarthy; 100 yards for fat men, W. R. Nicholson, James Wheeler; 50 yards for men over 50 years, Wm. Miller, J. Keady; 100 yards, open to all, J. Lally, Thos. Brown; potato race for ladies, Louise Eisenhardt, Jean Westwood; 100 yards 3-

legged race, Brown and Coles, Lowe and McDermott; 240 yards handicap, F. Cannell, A. E. Shedd, F. E. Palmer; 240 yards' handicap for boys, G. Palmer, W. Hiffe, J. Harbison; quoits, Wm. Monroe, Wm. Robb; high jump, Frank Edgar, F. McDermott; long jump, Wm. Johnson, F. Edgar; putting 16-lb. shot, W. R. Nicholson, Donald McKenzie; throwing hammer, Wm. Monroe, Wm. Robb.

After the returns were all in, President Wheeler distributed the trophies from Mr. Palmer's wagon amid much hilarity, and there being no "hand-somest baby," all the ladies went home happy.

OUTING OF THE CINCINNATI FLORISTS.

The 14th annual outing given by the Florists' Society, Thursday, July 19, at the Norwood Inn was a grand success. The weather was ideal for a picnic and we certainly had one. Cincinnati claims the credit for being the originator of these annual outings of the florists and the craft elsewhere seems to have taken well to the idea. We had the exclusive use of the grounds for the day and it was strictly a gathering of florists, their families, and friends. Ball games, quoit pitching, bowling, sack and foot races, etc., were indulged in to the heart's content. It was a little too warm for dancing but the young people didn't seem to think so. Liberal prizes were given for each event and still the committee reports a cash balance on hand. If our boys don't do any better at bowling than they did on this occasion the convention crowd has nothing to fear from Cincinnati bowlers.

PHILADELPHIA DIVERSIONS.

Liddon Pennoek won the yacht race at Ocean City on the 21st inst. with his Caroline against six competitors. This notwithstanding that he had to circle round and pick up brother Sam who fell overboard in his anxiety to ease ship by learning over when she heeled. Brother Casper came in 4th with Bo-Peep.

The Dayton bowling team try out one home and one out stands as follows: Robertson, 168.1; Falck, 166.5; Dunlap, 164; Graham, 159.5; Adelberger, 157.1; Connor, 152.1; Bachelor, 150.5; Westcott, 149.4; Kift, 149; Harris, 140.3.

PITTSBURG FLORISTS' CLUB PICNIC.

The Pittsburg Florists' Club held its annual picnic on July 10, at Clariton Grove. A delightful sail up the Monongahela river, a varied series of athletic games, dancing and a liberal distribution of refreshments were among the features provided for the pleasure of the members and their families who attended in large numbers, and at the close pronounced it the day of their lives.

INCORPORATED.

The Kentucky Nursery Company, Louisville, Ky., was incorporated with a capital of \$30,000, divided into three hundred shares of \$100 each. The holdings are as follows: F. Boone Gardiner, 215 shares; M. L. Gardiner, 10 shares; R. L. Cullen, 75 shares.

Issue of August 18

will be

DAYTON

CONVENTION NUMBER



It will reach the

Best Trade

at the Convention and
all through the country



*The Fall trade this year
will be the biggest ever*

JUMP IN EARLY

and

GET YOUR SHARE



Advertising in Horticulture

PAYS

POT MAKERS FOR 140 YEARS
A. H. HEWS & Co. Inc. CAMBRIDGE, MASS.
 FLORESTA WARE OF EVERY KIND

Fine Silver Cups and Trophies

For Exhibition Awards,
Sporting Events, etc.

FINEST ASSORTMENT IN
THE COUNTRY FROM
THE BEST MANUFACTURERS
AND AT LOWEST PRICES.

THORNTON BROS.
LAWRENCE, MASS.

WANTS, FOR SALE, ETC.

Advertisements in this column one
cent a word. Initials count as words.
Cash with order.

FOR SALE Florist's place, few miles
out of Boston, toward Brockton. Green-
houses 5000 sq. ft. glass, stock, about 2
acres land, modern house and barn,
\$4800.00. Address M, care HORTICUL-
TURE, 11 Hamilton Place, Boston.

SITUATION WANTED—As private gar-
dener on place where there is a range of
greenhouses. Best of references. Over 7
years in last place. Expert rose grower.
Married. Address J. J., care HORTICUL-
TURE.

WANTED—A few specimen plants of
Polypodium Aureum. William W. Edgar
Co., Waverley, Mass.

WANTED—Young, single man for fruit
range, Palms and Violet Houses. Wages
\$50.00. Reply to E. J. C., Office of HOR-
TICULTURE.

WANTED—Young single man for Green-
house, who understands grapes. Wages
\$35.00 and board. Reply to R. M. C., Of-
fice of HORTICULTURE.

WANTED—Young man, 22 to 26, to
work in greenhouses; \$55.00 per month.
Reply to E. D. B., Office of HORTICUL-
TURE.

CATALOGUES RECEIVED.

George Hollis, South Weymouth,
Mass. List of peonies, standard
varieties and seedlings.

Perennial Gardens' Company, To-
ledo, Ohio. General catalogue of
seeds, bulbs and plants, among the
latter being rose Anna Mueller, "the
new, ever-blooming Pink Baby Ram-
bler."

GREENHOUSES BUILDING AND PROJECTED.

Jamaica, N. Y.—John Stevenson, one
house
Baltimore, Md.—John Cook, rose
house.
Topeka, Kan.—J. E. Rodman, ad-
ditions.
Belleville, Ill.—A. S. Halstead, range
of houses.
Ames, Ia.—Olsanville Greenhouses,
one house.
New Bedford, Mass.—E. Y. Pierce,
one house.
Chillicothe, Mo.—R. L. Isherwood,
two houses.
Florence, Neb.—George Sorenson,
two houses.
Minneapolis, Minn.—T. H. Hall,
four houses.
Chambersburg, Pa.—Byer Bros.,
three houses.
Sherman, Texas—Byrne Floral Co.,
three houses.
Chippewa Falls, Wis.—F. S. Wie-
gand, one house.
Washington, D. C.—F. H. Kramer,
three rose houses.
Elmira, N. Y.—U. S. Cut Flower
Company, four houses.
Owensboro, Ky.—Nanz Floral Com-
pany, one house 25x100.
Indianapolis, Ind.—Berterman Bros.,
20,000 square feet of glass.
Baltimore, Md.—Erdman & Ulrich,
rose and carnation house 22x175.
Braintree, Mass.—H. Waldecker &
Bro., two houses, each 180 feet long.
Columbia City, Ind.—A. J. Wagoner,
range of greenhouses at new loca-
tion.
New Concerns.
Anacostia, D. C.—S. H. Lucas, four
houses, 10,000 feet glass.
Washington, D. C.—Fowler & Son,
6,000 ft. for vegetable forcing.

LIST OF PATENTS.

Issued July 17, 1906.

- 825,885. Pruning Device. Jefferson
Allen, Kennebunkport, Me.
825,895. Glass Roof. Johannes De-
genhardt, Berlin, Germany.
826,191. Apparatus for Separating
Seeds. Edson Potter,
Greensburg, Ind.

The Webster Floral Company of
Hamilton, Ont., is reported to have
made an assignment.

LET IT STRIKE
YOU

★

FOLEY MFG. CO.
471 W. 22ND ST. CHICAGO.

GREENHOUSE MATERIAL

OF ALL KINDS
HOT-BED SASH
VENTILATING APPARATUS
FITTINGS & C.

SEND FOR
FREE ILLUSTRATED
NEW CATALOGUE

If you are having delay in get-
ting your roof material, send your
orders TO US and don't be in
trouble. We will handle any
order in the time agreed. Try us.
FOLEY MANUFACTURING CO.,
471 W. 22d Street, Chicago

CEMENT BENCHES

Built Under the Pult Patents

Orders taken now. Send exact dimensions of the benches you want to rebuild or
put in a new house. Let us figure what we can furnish the bench at. A cement bench
lasts a lifetime. Constructed so it can be moved at any time and anywhere. All work
guaranteed. This bench will be on exhibition at Dayton.

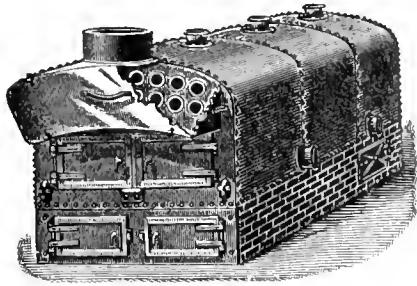
WM. F. KASTING, 383-387 Ellicott Street, BUFFALO, N. Y.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

35 Erie Street, CHICAGO.



Boilers made of the best material; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

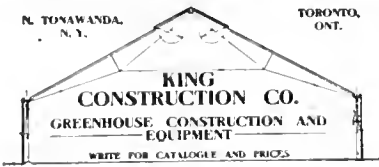
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Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

N. TONAWANDA, N. Y.

TORONTO, ONT.



BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

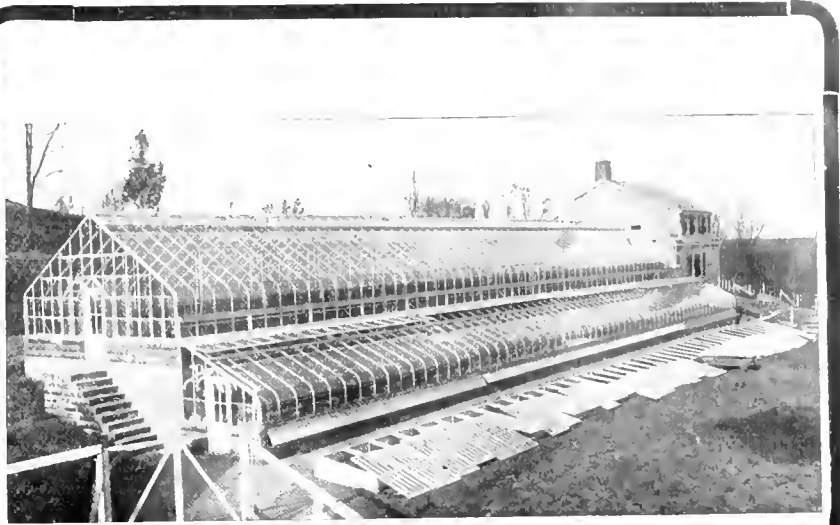
261 to 287 A St., BOSTON 20-22 Canal St.

GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.
117 E. Blackhawk St., CHICAGO

NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.



10,000 ROSES

from 400 plants, cut from January 1st to April 14th in this house — "firsts" only counted. It was the gardener's first experience with U-Barhouses—he declares with us that

U-BAR GREENHOUSES
Are the Best Greenhouses Built

because there's not a house their equal in growing possibilities — none as easy to grow in.

WE ARE THE SOLE MAKERS OF
U-BAR GREENHOUSES

PIERSON U-BAR COMPANY

Designers and Builders

U-BAR GREENHOUSES

Metropolitan Bldg., 4th Ave. and 23rd St.
NEW YORK

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE, 111 FIFTH AVE. 74 FRANKLIN ST. BOSTON

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL.

WEATHERED COMPANY

BOX 789, NEW YORK

GREENHOUSE BUILDING AND HEATING

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SCOLLAY HOT WATER
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JOHN A. SCOLLAY

73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

TO BUYERS

Patronize our advertisers, they will treat you right

H AND O



A Carpenter

can, of course, erect your greenhouse, but suppose he is not a greenhouse carpenter, isn't it reasonable that the value of our experience will be of value to you? Our erecting force is the best to be had, and you had better have the best.

HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.

H AND O

A LITTLE ADDITION TO YOUR INFORMATION

on paint might save you a good bit of money. For instance: suppose you used a lead this spring that was not only whiter than any other, but took up two to three gallons more oil to every 100 lbs. Its plain to see, that lead will go just that much farther — that's our kind of lead.

Lord & Burnham Co.
GREENHOUSE DESIGNERS
and MANUFACTURERS
1133 BROADWAY, cor. 26th Street, N. Y.
Boston Branch: 819 Tremont Building

That's the lead that makes the "Stay Put Paint" which is told about in our "Stay Put" booklet. Send for it.

MASTICA

(PATENTED)

For Glazing Greenhouses

Manufactured only by
F. O. PIERCE COMPANY
170 Fulton Street, New York

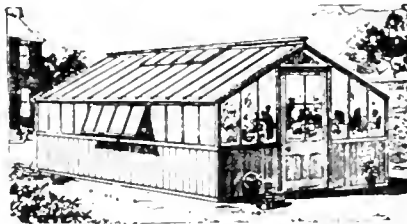
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"Built the Premier Way"

Greenhouse Reasons

* To be profitable they should be practical — to impart a nice appearance to your residence they should be artistic — while as you sometimes want to move them they should be portable.
* You will find all these points — and a lot more in Premier Houses. There is sense all the way through. There is experience behind us — that's a reason. Get booklet No. 48.

Chas. H. Manley

Premier Works, St. Johns, Mich.

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Send your business direct to Washington. Saves time and insure better service. Personal attention guaranteed. Twenty-five years' active practice. SPECIALTY: "Working on the Failures of Others."

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Washington, D. C.

We have on hand large quantities of Orchid Peat, Rotted Peat, Azalea Peat, Leaf-Mould, Live Sphagnum Moss for Orchids, Silver Sand, Green Clump Moss, etc. Also Baled Moss for Design Work and Nursery; 5 and 10 Bbl. Bales. Secure the best at the lowest prices. Samples gratis. Jobbers' list on application.

C. W. BROWNELL & CO.,
WALDEN, N. Y.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate	Price per crate	
1500 2 in. pots in crate \$ 4.88	120 7 in. pots in crate \$ 4.20	
1500 2 1/2 " " " 5.25	60 8 " " " 3.00	
1500 3 " " " 6.00	HAND MADE	
2000 3 " " " 5.00	48 9 in. pots 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 " " " .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 percent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.**
August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money.
W. H. ERNEST,
28th and M Streets, WASHINGTON, D. C.

Holds Glass Firmly
See the Point **PEERLESS**

HENRY A. DREER,
714 Chestnut St., Phila., Pa.

HORTICULTURE

Vol. IV.

AUGUST 4, 1906

No. 5



PRUNUS PENDULA.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

What Are You Talking About? BUSINESS MEN

Are in Business for what there is in it—NOT for friendship or sentiment.

ALL ADVERTISERS

need to know whether the medium they are employing has popularity and prestige.

Here are a few expressions of opinion, unsolicited, selected from many hundreds, as to what the business men think of HORTICULTURE.

"FOUR YEARS MORE."—Afraid you will charge more by and by, so now extend our subscription for four years.—O. C.

"GETS BETTER ALL THE TIME."—Please send HORTICULTURE on. Will pay for it. Like it very much. Gets better all the time.—S. J.

"WORTH THE PRICE."—Notify when this expires, as I want to renew. This discussion on mechanical watering is worth the price.—L. A.
District of Columbia.

"THE GREATEST PAPER OUT."—Inclosed find \$1 to pay for HORTICULTURE, the greatest paper out on scientific floriculture; it is all right.—H. L.
Nebraska.

"CHECK FOR THREE YEARS."—Inclosed please find check for three dollars (\$3.00) for which send HORTICULTURE for three years from date, January 1, 1906.—W. A.

"A GRAND ACHIEVEMENT." I think your magazine a grand achievement. Would not be without it. Enclosed please find one dollar for renewal of my subscription.—B. O. C.

"IS GREATLY VALUED."—We are anxious to assure you that your magazine is greatly valued in this office for its very interesting contents, and we wish to congratulate you upon the high standard attained.—K. O.

"THE BEST PUBLISHED." Inclosed please find one dollar for subscription to HORTICULTURE. We are great admirers of your journal; I think it the best published in the interest of the profession; others think the same.—P. A. J.

"APPRECIATED."—Enclosed is an order for one dollar for HORTICULTURE. Would have sent sooner but have been away. I am very much in love with your paper and appreciate the colored plates. It is growing better each week and no florist could do without its valuable help in gardening in any line.—S. J.

"THE BEST THINGS." Dear Sir:—I have pleasure in enclosing the current year's subscription to HORTICULTURE, and wish you continued success in the publication. Some of the recent articles which have there appeared, such as the discussion over the improvement vs. deterioration of varieties and species, are among the best things in current horticultural literature of the day.
Yours very truly, K. W. F.

SOME ADVERTISERS

have used our columns. Many others will soon do so. It may be an incentive to the courage of the latter to know how their more enterprising rivals have fared.

These testimonials were NOT ASKED FOR.

"PLANTS ALL GONE."—HORTICULTURE: Discontinue our ad. Plants all gone. Send bill to us and oblige.
Ohio. HAMMERSCHMIDT & CLARK.

"SOLD OUT."—HORTICULTURE:—Please cut out our advs., as all my stock is sold out. Send me the bill. Yours truly,
New York. S. A. PINKSTONE.

"FIFTEEN TO ONE."—Dear Sir: Inclosed find \$1 to place my ad. in paper one more week. Have sold \$15 worth already from my \$1 ad. of last week. Yours truly,
Massachusetts. G. H. W.

"TAKE ALL WE HAVE."—We have just received an order from your ad. for over 2000 plants; that will take all the seedlings we have and small pots. Very truly,
New York. A RELYEA & SON.

"PERFECTLY SATISFIED." If the HORTICULTURE will get me the same results in advertising this year as it did the past year, I will be perfectly satisfied.
Respectfully yours,
New Jersey. ANT. C. ZVOLANEK.

"ONE OF TWO."—Gentlemen:—From our recent gladiolus advertisement, inserted in three trade papers, but two of the three so far as we know brought us any orders. One of the two was HORTICULTURE. Yours truly,
New York. WM. ELLIOTT & SONS.

"PLEASED WITH RESULTS."—Editor HORTICULTURE: Dear Sir:—I am very much pleased with the results obtained from my "ad" in HORTICULTURE. From one insertion I obtained orders for over 5,000 geraniums and over \$100 worth of Boston ferns. Yours truly,
Mass. H. N. EATON.

"DID MOST SATISFACTORY BUSINESS."—Editor HORTICULTURE:—Concerning our advertising for this year we are glad to state that just as soon as we have looked over our stock of bulbs you shall certainly hear from us, as we did most satisfactory business through you last season. Very truly,
Virginia. POAT BROS.

"HORTICULTURE IS THE BEST MEDIUM."—Editor HORTICULTURE: We must discontinue our large advertisement this week in order to catch up with the orders we have received since its first insertion. We find that HORTICULTURE is the best medium for advertising that we have ever had. Very truly,
Mass. H. B. BARROWS & SON.

"A TREMENDOUS INQUIRY."—The tremendous inquiry for Harris which our advertisement in your paper has caused coupled with the fact that we are now entirely sold out compels us to request you to take out our advertisement. Respectfully yours,
New York. WM. HAGEMANN & CO.

Don't let any trade paper dictate your business policy. Business men are in business for what there is in it.

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STRAWBERRY PLANTS**

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Your choice from the best fifteen varieties grown in New England.

Our price list tells all about them and is free to all. Write or telephone.

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and TROPHIES**

For Exhibition Awards, Sporting Events, etc.

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**PLANT NOW
LILIUM HARRISII FOR EARLY FORCING**

We offer some extra choice Lillium Harrisii which has been grown for us from the original pure stock. This is the kind of stock that you want for the very earliest forcing, as it is the true, original Harrisii. The small sizes—5-7s and 6-7s—are particularly desirable for this purpose, as they will flower more quickly than the larger bulbs. If you want to get a little of the original, pure Harrisii, try a case or two of this. As our stock of this is limited, we can offer only a few cases to a single buyer. If you have been dissatisfied with the Harrisii that you have forced heretofore, try a case or two of this, and see if it is not more than worth the difference in price over the stock that you have been buying. In ordering, ask for the pure selected strain of original Harrisii, which we offer as follows:

5 to 7 inch bulbs,	400 to the case,	\$17.00 per case
6 to 7 " "	350 " " "	17.50 " "
7 to 9 " " "	200 " " "	20.00 " "

EASTER COMES EARLY THIS YEAR—MARCH 31st

and a great many growers will want to use Harrisii instead of Longiflorum so as to be sure to have the plants in flower in time, as the season is going to be short for Japan Longiflorum. The crop of Harrisii this year is the shortest it has been in years, and in view of the extra demand, we advise those who have not already covered their requirements to lose no time doing so.

For very earliest forcing—Christmas and later—we recommend the pure Harrisii offered above, but for later forcing, for Easter, our customers will find the regular stock offered below first-class stock—much better than the average stock usually offered. We can quote the regular stock as follows:—

6 to 7 inch bulbs, 335 to the case, \$13.50 per case

FREESIA REFRACTA ALBA, the true white variety. Now ready. Finest Bermuda-grown stock. \$1.00 per 100; \$7.50 per 1,000.

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Christmas Flowering
SWEET PEA SEED**

Christmas Pink and Florence Denzer, pure white, will be ready August 1st.

Those two well-known varieties are raised by over 2000 florists all over the world.—Here is one, out of many letters received:

Dear Sir: My sweet peas, which I raised from your seed, received the highest award at the Carnation Exhibit in Boston, being over 18 inches long.

JOHN T. GALE, Tewksbury, Mass.

Price 1-4 lb. 75c.; per lb. \$2.00
PAID FREE

New Christmas Flowering Hybrids, 20 to 30 colors, mostly blue, salmon, purple, lavender, in mixtures; also Mrs. Edle Wild, carmine, separate color. 1 Trade pkt. \$1.00, 5 Trade pkts. \$4.00; not more than 5 pkts. taken in order to each customer just now. Those new hybrids are just as free bloomers as Christmas Pink and Florence Denzer, some much larger, and received first class Certificate of Merit by the Mass. Horticultural Society, Boston, March 24.

All seed originated with me is sold in my original sealed pkts., with cultural direction, to the growers, but none for seedmen for propagating

Orders filled strictly in rotation.

ANT. C. ZVOLANEK
Bound Brook, N. Jersey

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

GOVERNOR HERRICK
The NEW VIOLET

The finest single, the freest bloomer, the greatest money maker ever offer for sale. Write me today, 1 doz., \$2.00; 100, \$10.00; 1000, \$75.00; 5,000 or more at \$60.00 per 1,000

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Originator and Introducer
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Hillegom, Holland

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Lilium Longiflorum

and all other bulbs for florists. Send us your requirements for special prices.

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ASPARACUS PLUMOSUS NANUS
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Send for price and list of varieties

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HORTICULTURE

VOL IV

AUGUST 4, 1906

NO. 5

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LOCAL REPRESENTATIVES

BUFFALO, N. Y.—E. C. Brucker, 385-87 Ellcott St.
CHICAGO, ILL.—R. S. Lund, 1034 W. Monroe St.
CLEVELAND, O.—A. L. Hutchins, 2220 East 74th St.
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DETROIT—C. B. Chase, 59 Miami Ave.
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LOUISVILLE, KY.—F. L. Schulz, Jr., 1325 Cherokee Rd.

MONTREAL—William Cooper, 338 St. James St.
NEWPORT, R. I.—David McIntosh, Ledge Road.
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In 2 1-2 in. pots, Ready

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Also on hand
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2 1-4 in., \$25 per 100
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There is BUT ONE FERN besides the BOSTONIENSIS and that is
NEPHROLEPIS WHITMANI

It is ahead of them all.
Having ordered a large quantity I can fill your orders at short notice.

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Orchid Seedlings

The most fascinating phase of orchidology is undoubtedly now the raising of hybrids. The romance of the imported specimen has largely passed, or has been transferred to the not less interesting field at home. "Natural selection" working on seemingly accidental lines has produced many beautiful forms; what then are the possibilities of intelligent selection guided by a fairly large deposit of practical experience? The prospect is illimitable: thirty years ago Doiny and Soden pioneered the way and already the nomenclature of hybrids is the despair of the ordinary mind and, as visitors to Messrs. Sander's and Charlesworth's of England may see, millions of seedlings are on the way. Unexplored regions may still yield new genera or new varieties of old species, but their interest will largely lie in the scope they offer to the hybridizer; the rediscovery of *Cypripedium Faircanum* for which such a large sum was offered was purely on account of its value as a parent. The progeny raised before its loss being of such unique form it remained a most desirable variety for ampler exploitation. Typical forms may become rare in many regions, but any fear as to the total extinction of orchids is groundless; the development of hybrids in any case will speedily be the main source of supply which will give nature a chance to replenish her depopulated fields and woods.

There are strong arguments in favor of hybrids; they are undoubtedly more vigorous in constitution and more amenable to greenhouse treatment than imported plants. The wise selection of healthy parents, the weeding out of weakly seedlings, the fostering care of the operator, together with the impetus of a new individualized life, all tend to breed a race, quicker in growth, more free in flowering and altogether more adaptable to treatment. To the amateur there can be no more interesting work than to experiment; there is ample room for all though the possibilities of pecuniary returns are remoter than they were, seeing that every available variety has been or is being worked upon by the trade.

Sander's revised list of hybrids is an invaluable guide to beginners. There is much pleasure in having a few of one's own on the way; they will need much careful attention but when after patient waiting the flower buds unfold, the pre-natal anxieties are succeeded by the parental joy. *Cypripediums*, which are the most easily raised, may be flowered in three years, *dendrobiums* in five years, *cattleyas* in five or six years, *odontoglossums* in from seven to nine years; this is the minimum time, for it must be borne in mind that always a few take the lead but usually the rest follow two years or more after the above dates. Bigeneric crosses are useless except in closely allied species, for, though pods may form, they will not develop true seed and it is a serious drain on the plants. It is useless to try to cross *cypripediums* with *cattleyas* or *phalaenopsis* with *odontoglossums*, but *laelia*, *epidendrum*, *sophronites* with *cattleya* and vice

vera, *cochlioda* x *odontoglossum*, *phaius* x *calanthes* have been reared. *Odontoglossums* present the most difficult though profitable orchids to raise.

Now as to the operation. A strong, healthy plant should be selected as seed parent and the time chosen a bright morning a few days after the flower has opened. Care should be taken to see that the pollen to be transferred be ripe when it will be of a soft, adhesive nature and may be taken by a pointed stick slightly moistened at the tip and placed carefully upon the sticky surface of the stigma, which in the case of *cyripediums* is on the under side. The pollen of the seed bearer must also be removed; afterwards the flower must be kept dry. The flowers of both parents will speedily wither and it may be taken as a sign that the cross is effected if the bearer withers in four or five days. The seed vessel should now be exposed to full sunlight, but as this in many cases would be fatal to the plant, a piece of paper may be slit through the seed stalk to shade the plant; the seed should be sown at once, and if the compost of the parent plant be in good condition with not too much sphagnum on it, this will serve as the best place to sow. The surface should be moist before sowing. With the aid of a microscope the swelling of the tiny globules and the emergence of the first embryonic leaf may be noted; when large enough to handle they may be pricked off round the side of thumb pots which should be prepared some months beforehand, plunging these in a larger pot and placed in a moist shady position. Where practicable the best place for seedlings is a low warm stove, with a water tank in place of stage, placing strips of wood across for the young plant. The advantage of this method is that the plants are kept moist without frequent watering, which often is fatal to the tiny plants. The seedlings delight in a soft, sweet, well-broken compost of peat, moss and sand with ample drainage and not too much pot room the first two years, after which their progress will be very rapid under normal conditions. The flowering may always offer a great surprise, but though very beautiful the variety may not be specially valuable, but the undoubted vigor of hybrids make them desirable additions for cut flower purposes.

The demand for rare hybrids is still growing and they are eagerly sought at fancy prices, but it may be said to rest upon somewhat unstable foundations, but orchids for the purposes of cut flowers have a more assured and permanent future; their lasting value is widely known, they give a touch of distinction to all floral arrangements and, covering during their flowering period every month in the year, they meet a great need in the floral department. There is a growing demand for orchids at popular prices, and the day is not far distant when the growing of hybrids of free flowering varieties will be a large and profitable source of in-

Edgar Elwin

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone Oxford 292

WM. J. STEWART, Editor and Manager.

No more conclusive proof of an intelligent, progressive, horticultural community can be asked for than is afforded in a wide-awake, spirited florists' or horticultural organization. Whether it be called a florists' club or a horticultural society, matters little, so long as it stands for the encouragement of that sentiment the natural sequence of which is attractive homes, a better appreciation of the beauty and usefulness of garden environment, abundance of flowers in the house at all times and at every social occasion, public or private, and that it brings together for familiar and friendly intercourse those who are engaged in pursuits of this nature.

From the start, *HORTICULTURE* has given much attention to securing and devoted a special department in its reading columns to recording items of interest in connection with the clubs and societies, setting the pace for all its competitors in this respect and, as is well known, has editorially and otherwise done all in its power to incite and foster this form of organized activity, believing that through this means and on these lines will be found always one of the most productive avenues to substantial prosperity in every sense for those engaged in the horticultural industries. We believe that the more fully this sentiment is cherished by the craft the more rapid will be the advancement of commercial horticulture.

It is not to be expected that every member of an organization will entertain identical views as to how it shall conduct its business or as to what its specific policies shall be. Neither can unanimity be looked for in the choice of officers. Elections will always bring disappointment to somebody, and there will be at all times elements in the society whose views are not in harmony with other elements but whose equal privilege it is to have their preferred candidates and to work for their success. A

prolific cause of disaster to many of the smaller organizations is the disposition to desert it when one cannot have his own way. Why not accept these disappointments philosophically, forgetting them in the desire to do one's part towards the ultimate general good? Let us keep in mind the fact that there are numberless ways in which the prosperity of a club may be promoted, and that it is not so much which of these is given precedence or who is in control, as it is that whatever is done is done persistently and thoroughly, and that, for the time being, all hands stay on deck, each ready and solicitous to do his best for the one object on which there must be no cavilling and on which all should "stand pat"—the prosperity of the organization.

Popular education in moth killing

In no department of horticultural work does ignorance seem more general and the need of education more apparent than as regards the various destructive insects and the means and method of their control. Some of the vague notions on this subject, which are not always confined to the amateur ranks, are comical in a way and might induce a hearty laugh if moth and beetle and scale fighting were not so serious a matter. The Lynn Item gives an account of an excursion to the Lynn Woods last Saturday by the Houghton Horticultural Society, in which the members were given a chance to observe insect life under the direction of C. A. Clark. According to the Item's story, "at the close of the trip Mr. Clark sprayed a colony of gypsy moths, the insects curling up as life expired. The spraying illustrated the method followed to exterminate the pests." The Item forgot to say whether hot lye or high-proof vitriol was used in "spraying the moth" but the pen picture of the creature "curling up as life expired," is a gem of artlessness. Coming as it does from so near the storm centre of the moth trouble it is also a pretty discouraging evidence of mis-information on the part of those to whom the public are supposed to look for light. It brings to view an excellent field for the dissemination of some of Superintendent Kirkland's "extermination" literature.

The Single Purpose

in the reading columns of this journal is to give intelligent readers the kind of matter which will be of interest and benefit to them. This has been our policy from the start and explains why a new paper has so quickly won a reputation for good advertising results. Every concern has its own way of doing business.

Our Way

is to aim constantly to catch the eye and the consideration of the best men in the trade—those who are buyers of first-class material and who can pay for what they buy. If you have goods to offer to that class of buyers then advertise the fact in *HORTICULTURE* and

You'll Get There

Convention Topics

DOINGS AT DAYTON.

The officers of the Dayton club met last Friday morning at the exhibition grounds in company with all concessionists, to make final contracts for lighting the grounds, etc.

Everybody was astonished to see how much Mr. Freudenberger and Mr. Hasey have accomplished. Both of these gentlemen enjoy in this section of the country the very best reputation, one as a landscape gardener, the other as a decorator. These unassuming young men, having in charge besides about 800 acres of park land, in addition to making one new park of 1200 acres, the other of 400 acres, have spent every spare moment in the most unselfish way for the benefit of the craft and the interests of this convention.

A thousand thanks to Mr. Patterson, of the National Cash Register Co., for his generosity in turning over to Mr. Freudenberger his men, teams, tools, and materials free of charge to beautify the outdoor surroundings. It is through Mr. Patterson's untiring efforts that the city of Dayton is in landscaping what it is today. There are no more slums; no more tenements. This, verily, is a City of Homes, through the untiring efforts of this gentleman in making the people love all that is great and good in nature, surrounding their homes with beautiful flowers, shrubs and trees. Where will you find another man that will ask his most humble neighbor, "Please fix up your property," and if the poverty racket is brought forth ask this man's permission to fix up his property at his own expense and tell him to come to get his seeds and shrubs without cost? However, visitors at the convention will judge for themselves.

At one of the last meetings of the Dayton club changes were made on the committee of interior decoration, and Mr. Freudenberger was chosen unanimously as chairman of the same. All were glad to discover a hidden talent and all were anxious to give him full swing to exercise his tastes and ability to the very fullest extent.

People are waking up now to the beauty of perennial material and it is with regret that we say that outdoor exhibitors did not show up as well as was anticipated. A large lot of ground was gotten ready, but exhibitors stayed out, and finally the Dayton club passed a resolution to fill up the empty exhibition spaces. The smallest and most humble brought whatever he had and Mr. Freudenberger took it unto himself to plant out these empty spaces originally intended for exhibitors with the material that was forthcoming from the members of the Dayton Florists' Club, as effectively as he could.

As I said before, people are waking up to the value of perennials. Now, you gentlemen that neglected to make an outdoor exhibit send something for indoors. It will be well protected. If you can't send the plants send cut flowers. It will open up new avenues of trade and will be quite instructive to a great many members who are not well versed as to the beauty and value of hardy material.

Here is another pointer for the gentlemen of the horticultural building

trade. Contracts will be let out this fall by one large concern alone for a \$20,000 conservatory. The eyes of this firm are centered on this convention. Now, gentlemen, be alive to the situation and be in the swim.

As before stated, the Dayton Florists' Club will offer a few prizes for the best plans for landscape gardening. Enterprising landscape architects should take a few hundred feet of exhibition space and show examples of their work. Make the trade familiar with what you are doing and don't put your light under a bushel. We have to introduce novel features in every convention and this will be one most beneficial to all the trade. Come forward, if it is only with a few pencil sketches, and show to the members of this society what can be done with a small amount of money to make even the most humble home a thing of beauty and to help elevate citizenship and make better men and women of us all. J. B. HEISS.

NEW YORK AND BOSTON TO DAYTON.

The New York Central Lines have been selected by the New York Florists' Club as the official route for the above occasion. Rate of fare and one-third, on the certificate plan, has been authorized for the round trip. When purchasing tickets to Dayton, ask agent for a certificate, which, when properly vised at the meeting, will entitle you to ticket at one-third fare returning.

The superior service of the New York Central Lines is shown below:

	going	Parth
Lv. New York Aug. 20, N. Y. Cen. 2.04 P.M.	\$17.25	\$4.00
Lv. Boston Aug. 20, B. & A. R. R. 10.45 A.M.	19.25	....
Lv. Worcester Aug. 20, B. & A. R. R. 11.55 A.M.	18.25	....
Lv. Springfield Aug. 20, B. & A. R. R. 1.11 P.M.	17.25	....
Lv. Pittsfield Aug. 20, B. & A. R. R. 2.59 P.M.	16.92	....
Ar. Albany Aug. 20, B. & A. R. R. 4.15 P.M.	....	....
Lv. Albany Aug. 20, N. Y. Cen. 5.08 P.M.	15.75	4.00
Lv. Schenectady Aug. 20, N. Y. Cen. 5.36 P.M.	15.50	4.00
Lv. Utica Aug. 20, N. Y. Cen. 7.09 P.M.	14.49	3.50
Lv. Syracuse Aug. 20, N. Y. Cen. 8.24 P.M.	13.13	3.00
Lv. Rochester Aug. 20, N. Y. Cen. 10.00 P.M.	11.83	2.50
Ar. Buffalo Aug. 20, N. Y. Cen. 11.37 P.M.	....	....
Lv. Buffalo Aug. 20, L. S. & M. S. 11.52 P.M.	10.45	2.50
Ar. Dayton Aug. 21, Big 4 Route. 8.55 A.M.	....	....

Parlor car sent from Boston to Albany, \$1.00; from Worcester, \$1.00; from Springfield, 50c.; from Pittsfield, 25c.

The members from New England points will note from above schedule that they will join the New York Florists' Club at Albany, thus affording an opportunity of traveling together, adding materially to the enjoyment of the trip.

We desire to call your attention to the privileges granted in connection with tickets reading via these lines without additional cost. These tickets will be accepted for passage by the C. & B. Steamboat Line between Cleveland and Buffalo, also by the Hudson River Day Line or People's Night Line from Albany to New York, upon notice to the conductor. You will also be permitted to stop-over at Niagara Falls for a period not exceeding ten days,

but tickets must be deposited with depot agent at Niagara Falls immediately upon arrival.

Exclusive Pullman sleepers to run through without change will be arranged if sufficient number of applications are made to the Committee in charge, consequently communicate at the earliest possible date with Walter F. Sheridan, 39 West 28th Street, New York City.

Frank H. Traendly, John B. Nugent, Jr., Walter F. Sheridan, Transportation Committee.

Or tickets may be purchased from Alex. Macfarlane, Ticket Agent, N. Y. Central, 1216 Broadway, New York.

CHICAGO TO DAYTON VIA BIG FOUR.

The Chicago Florists' Club has concluded arrangements for the special train over the Cleveland, Cincinnati, Chicago & St. Louis Ry., leaving the Michigan Central Passenger Station, 12th street, Chicago, at 12.45 Monday noon, Aug. 20, and due to arrive in Dayton, via Kankakee, Lafayette and Indianapolis, about 8.40 P. M., practically a daylight ride all the way.

The train will consist of three or more new day coaches, combination car and dining car to serve luncheon and dinner a la carte.

The rate by the certificate plan for the round trip is only \$9.70. These tickets are good on all trains August 17th to 23d and for the return trip the validated certificates will be honored up to and including August 31st.

The Chicago Florists' Club cordially invites the florists of the northwest and southwest, delegates to the convention, to join this special train at Chicago Monday noon as above stated, and see that when they buy their tickets and secure their certificates for the same that these tickets read "via Big Four Route" from Chicago to Dayton. Delegates who can join us at any point along our route are requested to do so. The committee will be glad to hear as early as possible from all who decide to join our party, so that the necessary arrangements can be made in time. Delegates buying tickets in Chicago will secure them at the city ticket office of the Big Four, 238 S. Clark street, with certificates.

For the Chicago Florists' Club,
 J. C. VAUGHAN,
 WILLIS N. RUDD,
 GEORGE ASMUS,
 Committee on Transportation.
 P. J. HAUSWIRTH, Pres.
 L. H. WINTERSON, Secy.

A PRESIDENTIAL SUGGESTION.

Editor HORTICULTURE:

Would it not be nice for the members of the S. A. F. and O. H. to give some attention to the selection of a suitable and logical candidate to fill the position of president for the ensuing year, rather than to leave it altogether to caucusing and button-holing members at the last moment? Or until they have unwittingly pledged themselves to some friend on personal grounds alone? It seems to me that the best interests of the Society often point to some man who would never dream of seeking the office in any way.

I am expressing my belief that Mr. H. B. Beatty, for so many years a faithful member and efficient officer,

is such a man, serving, as he has, year after year and never wavering in his devotion to the best interests of the society.

Let us see to it that the office seeks the man in a case where the man is too modest a gentleman to in any way seek it himself.

ADAM GRAHAM.

A TRIP TO CHICAGO.

Convention visitors who may decide to make a further western trip during the week following the Dayton meeting are cordially invited by the Chicago Florists' Club to advise its secretary when they will be in the city in order that an afternoon or evening visit with the club can be arranged.

P. J. HAUSWIRTH, President.
L. H. WINTERSON, Secretary.

Miss Bessie Evangeline Dornbusch of Dayton will read an original poem, composed by her in honor of the S. A. F. convention and will read it at the open air fete at Far Hills on Tuesday evening, August 21, after the president's reception.

THE PRIVATE GROWERS' "PULL."

Editor of HORTICULTURE:

Dear Sir:—In perusing the columns of the issue of July 28, I find a report of a picnic held by the Boston Gardeners' and Florists' Club at Waushakum Grove, July 26. It appears that those assembled at that place indulged in various kinds of sports among which was a tug-of-war between the private and commercial growers. I was astounded to read that the "private growers pulled the commercial men all over the farm." Now, Mr. Editor, don't you think that that is rubbing it in a little? Are you fully cognizant of the size of that farm? Is it not possible to reduce the farm to something about the size of a back yard of a 5 flat house? In spite of the pain it occasions, I must admit that the private growers had the pull, as usual, and that generally wins, but, that "all over the farm" expression is as misleading as it is humiliating. What ideas will your western readers have of Massachusetts farms when they find out that the dimensions of this particular farm was about 36 inches in length with no width, and 18 inches of that was taken by right of eminent domain before the pulling started.

And again, Mr. Editor, I wonder why the starter's pistol barked while the anchor man and captain of the commercial team was out of the anchor arranging his men? And Mr. Editor, when that private aggregation stopped in their triumphal tour of the farm, and for some reason or other began slowly to retrace their steps toward the starting place, I wonder why that pistol barked again after only 1-2 minutes of pulling?

I wonder why?

THOS. F. MATTHEWS.

"USEFUL IDEAS."

I am greatly pleased with HORTICULTURE. I get useful ideas from every copy I receive, and find it so valuable that I should not know how to get along without it.

J. E. F.
Milton, Mass.

NEWS OF THE CLUBS AND SOCIETIES

NEWPORT HORTICULTURAL SOCIETY.

The regular meeting of the Newport Horticultural Society was held Tuesday evening. President MacLellan in the chair. There was a large attendance of members, several of whom had exhibits. No attempt at display was made; on the contrary this was purposely avoided. It was thought there might be several new things shown but only one made its appearance, *Spiraea Davidii*, exhibited by Paul Valquardson, gardener for Mrs. Weld. This *spiraea*, which was introduced last spring by the Henry A. Dreer Co., of Philadelphia, is a plant of such striking beauty even when cut that everyone who sees it desires to procure it. To emphasize this I may say that several orders for seed could have been secured at that meeting. Mr. Valquardson was awarded a first-class certificate of merit, and a gratuity of \$5.

Spiraea Davidii is a strong grower; the spikes shown measured fully six feet; of graceful form; in color a pleasing mauve, not exactly what florists like for general utility but very useful on occasions.

Andrew Christensen showed a splendid specimen of *Nephrolepis Scottii*, very large yet so perfect that its presence seemed to refute the contention that *N. Scottii* loses its characteristics on attaining high dimensions. He received a certificate of merit and a gratuity.

Collections of dahlias were shown by John Marshall and John S. Stoddard, the latter an amateur. Gibson Bros. showed tuberous-rooted begonias and Samuel Speers gooseberries from a bush raised from seed. After the committee, composed of Messrs. James J. Sullivan, Bruce Butterton and Colin Robertson, had completed their work, a very enjoyable social hour was spent.

MORRIS COUNTY GARDENERS' AND FLORISTS' SOCIETY.

The schedule of the eleventh annual flower show of the Morris County Gardeners' and Florists' Society has been sent out. The exhibition will take place at the Assembly Rooms, Madison, N. J., on November 1 and 2. Four hundred and fifty dollars in cash prizes is offered for the various classes including chrysanthemums, roses, carnations, violets, vegetables and fruit. Madison is the centre of a renowned flower growing district and the Society making its headquarters there includes in its membership a large number of gardeners and florists second to none in the country in ability. The society does good work and exercises a potent influence for horticultural advancement. Copies of the schedule may be had on application to secretary E. Reagan, Box 315, Morristown, N. J.

TOLEDO FLORISTS' CLUB.

About fifteen members were present at the meeting of the club last Thursday. A letter was read from the Detroit Club suggesting that our boys should meet them in Cleveland or come to Detroit and join them there on a water trip to Cleveland whence they could go together to Dayton.

There were few of the members that liked the idea, as it meant loss of much time en route. It seems that very few will go to the convention.

At the next meeting of the club prizes will be awarded for exhibits. President Bayer has offered \$3.00 for the best 4 dozen asters, 12 each of white, pink, purple and lavender, variety immaterial, and the club has offered \$1.00 for the best collection of cannas of at least 6 varieties, rightly named. It is hoped that by frequently offering prizes in future better attendance of the members will be secured.

CLUB AND SOCIETY NOTES.

The next regular meeting of the Kentucky Society of Florists will be held on August 7th at 8 P. M.

The Summer Show of the North Shore Horticultural Society will be held on August 29, on the grounds of the Essex County Club, Manchester, Mass.

An enjoyable feature of the recent meeting of the Nebraska State Horticultural Society at Omaha was the invitation and entertainment extended by Mr. and Mrs. P. B. Floth at their new residence and greenhouses on the occasion of the auto ride given the visitors by the Omaha Florists' Club.

The Perry Florists' Association held a convention on July 17-19, in Mason City, at the greenhouses of A. L. Wheeler, president of the association. P. Clausen of Albert Lea, M. H. Wetherbee of Charles City, W. H. Symonds, Decorah, Wm. Perry, Cresco, were among the prominent florists in attendance.

The New Orleans Horticultural Society held its annual meeting on July 19 at Kolb's, and after the election of officers and other business a supper was served in the cafe. The officers elect are: President, Otto Abele; vice-president, C. Louis Sieber; secretary, C. R. Panter; treasurer, John Eblen. The society will hold no meetings during August and September.

PHILADELPHIA PERSONALS.

Clarence J. Watson, late manager for Samuel S. Pennock is now with the Leo Niessen Co.

L. Campbell has severed his connection with the establishment of Edward Reid. It is rumored that he intends to go into business on his own account.

Geo. D. Clark, manager of the flower seed and bulb department of Dreer's left New York on the Caledonia, July 28. He expects to return in September.

Robert Glass, for the past seven years in the employment of the Leo Niessen Co. is now with Samuel S. Pennock.

Among our visitors last week were Harry Holmes of the Holmes Seed Co., Harrisburg, Pa., and W. H. Longbridge of Jerome B. Rice & Co., Cambridge, N. Y.

W. J. Sherry of the Johnson Seed Co. Harrisburg, Pa., and W. C. Lang-14th His destination is Boston and points of interest through the New England states. Mrs. Sherry and daughter will accompany him.

During Recess

"Jest and youthful Jolity,
Quips and Cranks and Wanton Wiles,
Nods and Becks and wreathed Smiles,
Sport that wrinkled Care derides,
And Laughter holding both his sides."

ST. LOUIS FLORISTS' CLUB PICNIC.

The picnic of the St. Louis Florists' Club took place on Thursday, July 26. The day was most beautiful except for a heavy rain that fell for an hour. Visitors at the outing were J. S. Wilson, of Western Springs, Ill., S. S. Skidelsky and B. Eshner of Philadelphia, H. E. Philpott, of Winnipeg.

It was nearly 3 o'clock before the games were started. J. J. Beneke was appointed official starter. The first race was the 100 yard dash for young men; 12 of them toed the mark; G. Hartman won, R. J. Windler was a close second. Prize, a silk umbrella. In the 12 to 14 year old boys' race John Brutzen won from a field of 3. The hop, step and jump was won by Fred M. Alves of Augermueller's; A. Jablonsky came in second. The winner's jump was 36 feet, second was 33 feet. Girl's race under 16 years, Alice Jablonsky won out easy. Ladies' race, single, won by Miss Eugenia Reeb. Running broad jump, Fred Alves was the winner in a field of 12. Old man's race, 50 years or over, J. J. Beneke won a box of cigars, E. W. Guy second. Carl Beyer had a walk-over in the fat man's race and won a beer mug. J. F. Ammann and H. Berning ran with him; all they got was a drink from the mug. Married ladies' in an egg and spoon race came next and 17 very fine looking ladies started. Mrs. Beyer won. Boys' and girls' potato race, Adolph Steinale and Dora Miller were a tie. Sack race for boys' of 18 and under, Louis Vogel beat the Strindle brothers and won the combination fishing pole. Then came the Tug-of-war with 6 on a side, Beyer and Beneke as captains. Beyer's side was made up of heavy weights and won a box of cigars easy.

Next came the great base ball game between the wholesalers and retailers. This event has been the talk for months in the wholesale district. The batteries were Herman Weber and J. J. Beneke for the retailers and George Schriever and Fred Alves for the wholesalers. Five innings were played, the wholesalers winning by a score of 10 to 2. Otto Bruening and Fred Alves were badly hurt sliding and will be laid up for the next two weeks. The attendance was estimated at over 200.

The standing of the Philadelphia contestants for the Dayton bowling team changed last week. Connor went up from 6th to 2nd; Falck dropped from 2nd to 3rd; Graham from 4th to 5th; Dunlap from 3rd to 5th; Westcott from 8th to 10th; while Adelberger went up from 5th to 4th; Kift from 9th to 8th; and Harris from 10th to 9th. Robertson is still first and Bachelor 7th.



ST. LOUIS WHOLESALE AND RETAIL FLORISTS' BASE BALL TEAMS AT THE PICNIC ON JULY 26.

OBITUARY.

Peter H. Murphy died at his home on North Limestone street, Springfield, O., on July 23rd. Mr. Murphy was nearly 80 years of age and has been engaged in the florist's business for thirty years.

Edward D. Clark, who has conducted a florist's business in Providence, R. I., for nearly twenty years, died suddenly on July 26 at his home. Mr. Clark was born in England 54 years ago, but had been a resident of Providence since early boyhood.

Last Saturday morning while bathing in company with another young girl, Edna, the youngest daughter of Mr. William Thomas, gardener on the E. R. Thomas estate, was drowned. The scene of the sad occurrence was the Belmont Beach, Newport, where the treacherous currents have claimed many victims in former years. Miss Thomas was barely beyond her depth when she was suddenly swept out and drawn down, while her companion was utterly unable to render her any aid. The body was recovered the same afternoon by Mr. Alex. Fraser. By reason of her amiable disposition the girl was a favorite with everybody. Much sympathy is expressed for Mr. and Mrs. Thomas in their bereavement. The funeral was held Monday morning from Emmanuel Church. The floral tributes were so numerous that it seemed every gardener in Newport thus showed his feeling towards the parents and respect for the girl's memory. D. M.

"ALL SOLD OUT."

Dear Sirs:—Please stop our adv. of cherry plants, as we are all sold out. Send bill for full amount.

Very truly,

A. RELYEA & SON.

News Notes.

The seventeenth annual banquet to gardeners, florists, and nurserymen, provided for in the will of Henry Shaw will take place at the Jefferson Hotel, St. Louis, on Aug. 14.

Hayden & Fowler have given up their occupancy of the greenhouses at Silverside, Del., and are now located at their new place at Morton, Pa., where they have 18,000 ft. of new glass in roses, carnations and lily of the valley.

Early on the morning of July 24 four masked men overpowered the night watchman at the greenhouses of the U. S. Cut Flower Company at Elmira, N. Y., and blew open the safe. They secured \$12 from the safe and took \$6 and a revolver from the watchman.

Foolhardy, indeed, were these four burglars of Elmira who went to the trouble of looting the safe of a florists' establishment in midsummer. The \$1.50 apiece which they realized from the adventure will probably stick in their memory for a while and florists are not likely to be molested by that quartette again very soon.

MOVEMENTS OF GARDENERS.

John Ross has succeeded C. J. Andrews as gardener for Mr. Francis Peabody, Milton, Mass.

Herman Lombard has taken the place of Mr. John Connolly as gardener for Mr. O. W. Blake, at Hingham, Mass.

Albert Jay has been installed as gardener on the Andrews' estate at Hingham, Mass. A greenhouse and a formal flower garden are features which have been added to this place the present season.

Snapshots of the Games at the Picnic of the Gardeners' and Florists' Club of Boston, July 25.

Photographed by D. Lumsden.



50 yd. Race - Married Ladies.
Mrs. Robt. Edgar, Winner.



100 yd. Dash.
The Start.



200 yds. Handicap.
F. Cunell, A. E. Shedd, F. E. Palmer

The Tug of War.

50 yd. Race - Men Over 50 yrs.
Wm. Miller, 1st; J. Keady, 2d.



A High Ball.



100 yd. Sack Race

Seed Trade Topics.

The H. E. Fiske Seed Company will open at 12 and 13 Faneuil Hall square, Boston

Reports received from the west the present week state that sugar corn is two weeks late, but growing rapidly, though rain is needed.

Many seedsmen are away from home on crop inspection tours. This is a highly important part of the business, and while many houses give it as thorough attention as practicable, others give it precious little. Growers are quick to learn the "particular" houses, and those that are not, and govern themselves accordingly. It may be stated as an incontrovertible fact, that no firm doing a large volume of business can afford to neglect crop inspection, and no money is more wisely spent.

The old house of Alfred Bridgeman has been sold to the Rickard Bros. "Al" and "Billie" have the best wishes of a large number of friends in their venture and it is confidently believed the boys will revitalize the old firm, and make it an important factor in the seed trade of New York. Both of these young men have learned their lessons from the best school-masters in the business, and it may be said with confidence that they will not disappoint the hopes and expectations of their friends.

The truck farmers of Long Island and New Jersey are experiencing great trouble in getting help to harvest their crops, although unprecedented wages are offered. It is reliably stated that as high as \$2.00 and \$2.50 per day has been offered, "with few takers." To illustrate this, a story is told of an ignorant Pole who landed in this country but little over a year ago. This man left a farmer for whom he had been working and went home. The news spread rapidly and next morning four farmers drove over to see him, and there was hot competition to secure his services. He sat on his door step like a "Peer of the realm" while the farmers argued and entreated and "bid him up" until they had reached \$2.50 per day and board. This seemed to be the limit, and Mr Pole after waiting sometime for the ante to be raised, wisely concluded to accept the offer of one of his visitors who had whispered something to him, but just what this was the others did not learn.

QUALITY SEED BULBS PLANTS
SEND FOR CATALOGUE.
ARTHUR T. BODDINGTON
142 West 14th St., New York.

RAWSON'S HOT HOUSE CUCUMBER

The finest strain in existence for forcing under glass. Per pkt., 15c; 1/2 oz., 35c; oz., 60c; 2 oz., \$1.00; 4 oz., \$1.50. Mailed free at above prices.

W. W. RAWSON & CO.
5 Union Street, BOSTON, MASS.

JOHNSON'S MUSHROOM SPAWN

The Best, the Freshest, the Most Productive

FAMOUS FOR ITS UNIFORM GOOD QUALITY AND PRODUCTIVENESS

	Per doz. bricks	Per 25 bricks	Per 50 bricks	Per 100 bricks	Per 200 bricks
Pure Culture	\$1.80	\$3.75	\$7.00	\$13.50	\$115.00
English Milltrack	to lbs. .80	to lbs. 1.50	to lbs. 6.00	to lbs. 55.00	

Special prices will be made on large lots

Headquarters for PANSY SEED — See our offer in last week's Horticulture

JOHNSON SEED COMPANY HERBERT W. JOHNSON of the late firm of Johnson & Stokes, President
217 Market Street PHILADELPHIA, PA.

CYCLAMEN SEED
New Crop
MICHELL'S GIANT STRAIN
Grown for us by one of the leading growers in Europe, and for size of blooms and free flowering qualities cannot be excelled.

	100 Seeds	1000 Seeds
GIANT WHITE	.75	\$6.00
GIANT PINK	.75	6.00
GIANT RED	.75	6.00
GIANT WHITE, with Red Eye.	.75	6.00
GIANT MIXED	.60	5.00

NEW CROP PANSY SEED
Michell's Giant Exhibition Mixture
For size of bloom, length of stem, rich coloring and distinct markings this strain cannot be excelled. Has been awarded First Prize wherever exhibited. Price, trade pkt., 50c.; 75c. per 1/8 oz.; per oz., \$5.00.
Send for our Wholesale Catalogue of Seeds, Bulbs, and every requisite for the greenhouse and garden.
HENRY F. MICHELL CO.
1018 Market St., Philadelphia, Pa.

FARQUHAR'S GRASS SEED MIXTURES
ARE CELEBRATED FOR
Hardiness, Purity and Permanency
Specially blended to suit all conditions of soil for Meadow, Pasture, Lawns, Golf Links, Putting Greens, Tennis Courts, Terraces, Embankments and Shady Spots.
Samples and Prices Upon Application
STORE HOURS: 7.30 A. M. TO 6 P. M.
R. & J. FARQUHAR & CO.
Seedsmen, Nurserymen and Florists
6 & 7 SOUTH MARKET ST., BOSTON

SOW NOW.
Breck's International Prize Mixed Pansy.
JUST IMPORTED.
Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Burpee's Seeds PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

THE CHOICEST STRAINS OF STOCKS
Including
CINERARIA, CALCEOLARIA, CYCLAMEN, PANSY, PETUNIA, etc.
can be had from
JAMES VICK'S SONS,
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WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO July 30	ST. LOUIS July 30	PHILA. July 30	BOSTON August 2
ROSES				
Am. Beauty and Edgely Fan. & Sp.	15.00 to 25.00	15.00 to 20.00	20.00 to 25.00	8.00 to 10.00
" Extra.....	8.00 to 10.00	10.00 to 12.50	15.00 to 18.00	6.00 to 8.00
" No. 1.....	4.00 to 6.00	6.00 to 8.00	10.00 to 12.00	4.00 to 6.00
" Lower grades.....	1.50 to 3.00	3.00 to 5.00	5.00 to 7.00	.50 to 2.00
Bride & 'Maid—Fan. & Sp.....	4.00 to 6.00	4.00 to 5.00	5.00 to 6.00	3.00 to 4.00
" Ordinary.....	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00	1.00 to 2.00
Golden Gate, Fancy.....	4.00 to 6.00	4.00 to 5.00	5.00 to 6.00	3.00 to 4.00
" Ordinary.....	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00	.50 to 1.00
Liberty, Fancy.....	4.00 to 6.00	4.00 to 5.00	5.00 to 6.00	4.00 to 5.00
" Ordinary.....	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00	.50 to 1.00
Richmond, Fancy.....	4.00 to 6.00	3.00 to 4.00	5.00 to 6.00	4.00 to 5.00
" Ordinary.....	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00	1.00 to 2.00
Kaiserin, Carnot, Chatenay, Fancy.....	4.00 to 8.00	4.00 to 5.00	6.00 to 8.00	4.00 to 5.00
" Ordinary.....	2.00 to 3.00	2.00 to 3.00	3.00 to 5.00	.50 to 1.00
CARNATIONS				
Fancy.....	1.50 to 2.00	1.00 to 1.50	2.00 to 3.00	.75 to 1.00
Ordinary.....	.50 to .75	.75 to 1.00	1.00 to 1.50	.35 to .75
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to .....	..... to	30.00 to 50.00
Lilies.....	5.00 to 8.00	..... to .....	..... to 12.00	5.00 to 8.00
Gladioli.....	2.00 to 4.00	..... to	3.00 to	1.00 to 4.00
Asters.....	1.50 to 4.00	..... to	1.00 to 2.00	.35 to 1.00
Lily of the Valley.....	2.00 to 4.00	..... to	2.00 to 4.00	2.00 to 4.00
Sweet Peas.....	.50 to .75	..... to .15	.50 to .75	.10 to .20
Mignonette.....	..... to .....	..... to	1.00 to .....	..... to 1.00
Adiantum Cuneatum.....	.50 to 1.00	..... to .....	..... to .....	.75 to 1.00
" Croweanum.....	.75 to 1.00	..... to .....	..... to 1.00	..... to 1.50
Smilax.....	10.00 to 15.00	..... to 12.50	15.00 to	12.00 to 16.00
Asparagus Plumosus, strings.....	25.00 to 35.00	25.00 to 40.00	35.00 to 50.00 to 50.00
" & Sprengeri bunches.....	25.00 to 35.00	25.00 to 50.00	35.00 to 50.00	20.00 to 35.00

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Cut Flower Market Reports

BOSTON An immense product of common grade flowers that there is no sale for and a famine of the choice standard material so pronounced that it is not possible to fill a moderate sized order when such is received. This is the condition prevailing at present about the wholesale flower markets. Roses, if from young stock, are small and with stems short and weak, and if from old plants are covered with mildew. Good white carnations are rarely seen. Asters, gladioli, sweet peas and other out-door stock are coming in heavily; quality all right but no market.

BUFFALO The past week found the market in a congested condition. Very little business was done outside of a little floral work amongst retailers. Carnations are of poor quality while the only good roses there are to be seen are Beauties, Carnots and Kaiserins. Bridesmaids are very small and hardly saleable at any price. Asters are arriving in quantities and select stock seems to move fairly well while the ordinary drag. As for gladioli no extra stock has been received as yet but they come in mixed lots and are also a glut. It is hoped that things will change in a short time for the betterment of the trade.

CHICAGO The market here has been somewhat brighter during the past week and prospects are fair for the immediate future. Asters are coming in good condition as are also gladioli, these being quite popular at present. Roses and carnations are poor in color and size and not any too abundant. American Beauty shows some improvement in color.

CLEVELAND Within the last few weeks is the first time we have had any rain since April. In consequence, outside flowers are rather scarce, but considering the florists' dull season all have been kept quite busy. Cut flower market is firm and prices on roses from \$2 to \$5, carnations from \$1 to \$2, and sweet peas from \$1 to \$1.50 per 100.

COLUMBUS We have had a very satisfactory business during the past week; considering the fact that we are right at mid-summer. Gladioli and asters have come and sell readily. Asters thus far have not been of especially good quality. Other stock is plenty, but the quality is low.

LOUISVILLE Business conditions the previous week were rather slow in all lines. Roses continue to come in fair quality and there is a good de-

mand for them. Carnations are very poor. Lilies and asters come in quantity sufficient to meet all demands. There is an abundance of greens.

NEW YORK More flowers are being received in the New York wholesale establishments than ever before at this season of the year, and it is gratifying to be able to report that while such things as gladioli, asters, etc., are necessarily sold very cheap in order to unload, American Beauty, Kaiserin and Killarney roses are selling readily and at satisfactory figures. Longiflorum lilies and lily of the valley are also doing well and bringing good values.

OMAHA Cut flowers have been plentiful and are getting more so every day as out-door stock is getting in, and as the new roses are beginning to make their appearance, especially Beauties, which have been somewhat scarce and poor. Trade has been fairly good, considering the summer months, and as a whole we have nothing to complain about.

PHILADELPHIA For a summer week business was very good here. Beauties are better in quality and rather more plentiful. Kaiserins are very good as standards run at present. Killarneys are keeping up their reputation as a summer rose and are favorites. Other varieties small and scarce. Nothing new in carnations. Asters very much more plentiful and quality improving. Gladioli are coming in freely but sell rather slowly and at but medium figures. Some choice blooms of the new pink variety, America, found ready takers at 8 cents.

BUSINESS CHANGES.

Henry W. Vose has assumed the entire business of Vose & Fellows, Milton, Mass. He has an experienced grower in charge of the growing and marketing. Stock is looking fine and he expects to begin the erection of a new house soon.

E. W. Arnold, formerly of Randolph, Mass., has bought the Swithin place, Hancock St., Quincy, Mass., also a tract of land immediately adjoining it. He is repairing the greenhouse that is on the place and will move his houses from Randolph and erect them here. He intends to grow carnations and violets for the wholesale market, but will continue his store near Music Hall and give careful attention to the development of his retail trade.

Edward Welch opened his store at 364 Asylum street, Hartford, July 25.

NEWPORT NOTES.

For the Fete held last week in the Casino Messrs. Parquhar of Boston consigned several cases filled with very choice medium sized palms and decorative foliage plants. Their thrifty appearance was a matter of general comment. These plants sold at rather fancy prices.

It is not generally known, although it is a fact just the same, that Mr. Alfred G. Vanderbilt has one of the largest, if not the largest, and in some respects the most beautiful estate on the Island. Mr. Vanderbilt in recent years has spent immense sums of money in improving this property in various ways yet he still modestly calls the estate "Oakland Farm." Mr. Vanderbilt on more than one occasion has shown his interest in the Newport Horticultural Society although he never exhibited anything, but there are indications that this year Mr. Vanderbilt's gardener, Mr. Alex. Adam, will be one of the exhibitors at the show in the Casino. Mr. Adam since entering the employment of Mr. Vanderbilt has accomplished a great deal in bringing the garden and the grounds at Oakland Farm up to their present high state of perfection. Mr. Adam has fallen in line and made his application for membership in the Horticultural Society.

PERSONAL.

Boston visitors this week were G. F. Struck, Summit, N. J., Thomas Knight, Rutherford, N. J., D. MacRorie, South Orange, N. J., Victor Morgan, New York.

Benjamin Fewkes of Ipswich, Mass., while driving on July 28 was thrown from his carriage, breaking an arm and a leg, and receiving serious bruises. Mr. Fewkes is 82 years of age.

THE STORY OF A GREAT PARK.

The July number of House and Garden contains the second installment of Frederick W. Kelsey's story of the inception and establishment of the Essex County parks, "The First County Park System in America." A portrait of the author and two park views accompany the text. Anyone interested in public parks movements will find in these chapters of Mr. Kelsey's experience and suggestion much to consider and profit by.

INCORPORATED.

Application has been made by George Achelis, Peter A. Keene and Martha G. Leay for a charter for the Morris Nursery Company, the business of which has been carried on at West Chester, Pa., heretofore by George Achelis

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending July 28 1906	First Half of Week beginning July 30 1906		Last Half of Week ending July 28 1906	First Half of Week beginning July 30 1906
Roses			Carnations, Fancy	2.00 to 3.00	1.00 to 2.00
Am. Beauty and Edgeley fan and sp.	15.00 to 25.00	20.00 to 25.00	Carnations, Ordinary	1.00 to 2.00	1.00 to 2.00
" extra	10.00 to 15.00	8.00 to 12.00	Cattleyas	35.00 to 40.00	35.00 to 60.00
" No. 1	6.00 to 10.00	4.00 to 6.00	Lilies	10.00 to 12.00	8.00 to 10.00
" Lower grades	.50 to 4.00	1.00 to 2.00	Gladioli	.50 to 2.00	.50 to 2.00
Bride & 'Maid, fan and sp.	3.00 to 4.00	.50 to 4.00	Asters	..... to .....	.25 to 2.00
" Ordinary	.50 to 1.00	.50 to 1.00	Lily of the Valley	1.00 to 2.50	1.00 to 3.00
Golden Gate, fancy	3.00 to 6.00	3.00 to 6.00	Paonies	..... to .....	..... to
" ordinary	.50 to 2.00	.50 to 2.00	Sweet Peas, bunches	1.00 to 4.00	1.00 to 4.00
Liberty, fancy	0.00 to 8.00	6.00 to 8.00	Nigronette	.50 to 1.00	.50 to 1.00
" ordinary	.50 to 2.00	.50 to 2.00	Adiantum Cuneatum	.25 to .50	.25 to .50
Richmond, fancy	6.00 to 8.00	6.00 to 8.00	" Croweanum	1.00 to 1.50	1.00 to 1.50
" ordinary	.50 to 2.00	.50 to 2.00	Smilax	6.00 to 8.00	6.00 to 8.00
Kaiserin, Carnot, Chateau, fancy	3.00 to 6.00	1.00 to 8.00	Asparagus Plumosus to 25.00	10.00 to 25.00
" " ordinary	.50 to 2.00	.50 to 2.00	" & Sprenger, bunches	15.00 to 35.00	15.00 to 35.00

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	CINCINNATI July 23	DETROIT July 23	BUFFALO July 23	PITTSBURG July 31
ROSES				
Am. Beauty and Edgely, fan and sp.	20.00 to 25.00	15.00 to 25.00	20.00 to 25.00	20.00 to 25.00
" extra.....	15.00 to 20.00	10.00 to 15.00	12.00 to 20.00	12.50 to 15.00
" No. t.....	10.00 to 12.50	6.00 to 8.00	6.00 to 12.00	8.00 to 10.00
" Lower grades.....	5.00 to 8.00	5.00 to 6.00	3.00 to 6.00	3.00 to 5.00
Bride & 'Maid—Fan, and Sp.....	..... to 8.00	0.00 to 8.00	5.00 to 6.00	..... to 4.00
" Ordinary.....	4.00 to 6.00	4.00 to 6.00	4.00 to 5.00	..... to 2.00
Golden Gate, Fancy.....	..... to 8.00	6.00 to 8.00	5.00 to 6.00	..... to 4.00
" Ordinary.....	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00	..... to 2.00
Liberty, fancy.....	..... to 8.00	..... to 8.00	5.00 to 7.00	..... to 6.00
" Ordinary.....	3.00 to 5.00	4.00 to 6.00	3.00 to 5.00	..... to 4.00
Richmond, Fancy.....	..... to 8.00	6.00 to 8.00	6.00 to 7.00	..... to 6.00
" Ordinary.....	3.00 to 5.00	3.00 to 5.00	3.00 to 6.00	..... to 4.00
Kaiserin, Carnot, Chateau, Fancy.....	..... to	4.00 to 6.00	6.00 to 7.00	6.00 to 10.00
" Ordinary.....	..... to	2.00 to 4.00	3.00 to 6.00	2.00 to 4.00
CARNATIONS				
Fancy.....	..... to 3.00	1.50 to 2.00	1.50 to 2.00	..... to 2.00
Ordinary.....	1.00 to 2.00	.75 to 1.00	.75 to 1.00	..... to 1.00
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to 100.00	..... to .....	..... to
Lilies.....	10.00 to 12.50	10.00 to 15.00	3.00 to 15.00	12.50 to 13.00
Gladioli.....	..... to .....	..... to .....	..... to	3.00 to 6.00
Asters.....	..... to .....	..... to	1.00 to 2.00	.50 to 2.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Sweet Peas.....	.25 to .35	..... to .25	.15 to .25	.10 to .40
Mignonne.....	..... to .....	..... to	1.00 to 1.50	..... to
Adiantum Cuneatum.....	..... to 1.00	..... to .....	.50 to 1.00	..... to
" Croweanum.....	..... to .....	..... to	1.00 to 1.50	1.25 to 1.50
Smilax.....	..... to 12.50	..... to 12.50	..... to 15.00	10.00 to 12.50
Asparagus Plumosus, strings.....	40.00 to 50.00	25.00 to 50.00	25.00 to 35.00	25.00 to 40.00
" & Sprengeri, bunches..... to 35.00	25.00 to 35.00	25.00 to 35.00	35.00 to 40.00

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John Scott, Flatbush, Brooklyn, N. Y.
 Asparagus Plumosa, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erle Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Ellieott St., Buffalo, N. Y.

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 Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.
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FLORAL PHOTOGRAPHS.
 Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' FERTILIZER.
 A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address J. W. Barwell, Blatchford's Calf Meal, Animal and Poultry Foods, Fertilizers, Karbo Dip, Seeds, etc., Waukegan, Ill. Established at Leicester, England, in 1800.

?
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LILIUM HARRISII.

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A. T. Boddington, 342 West 14th St., N. Y.

PATENTS.

Siggers & Siggers, Washington, D. C. Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PEONIES.

Gilbert H. Wild, Sarcoxie, Mo.
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Fine collection of Best Peonies. Complete Peony and Phlox Manuals, 25 cents each. C. S. Harrison's Select Nursery, York, Nebr.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Primula Obs. Grandiflora. 4 in. pots. \$6 per 100. Cash. Please. A. Relyea & Son, Poughkeepsie, N. Y.

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American Beauties, 2-in., \$55.00; 3-in., \$80.00 1000. Cash. J. Henry Bartram, Lansdowne, Pa.

Roses. Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1/2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

1000 plants grafted Maids, 3 inch pots, fine stock, 2000 plants Richmond, own roots, 3 inch pots, very fine plants, price \$10.00 per hundred, while they last. Cash with order. Robert Simpson, Clifton, N. J.

The beautiful new pink rose, MISS KATE MOULTON, is the queen of all pink roses. It's a winner and you should grow it. Price \$30.00 100; 500 \$125.00; 1000 \$200.00; 5000 and upwards, \$175.00 per 1000. Minneapolis Floral Co., Minneapolis, Minn.

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Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

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TSUGA CANADENSIS WANTED.

J. O. B., care of Horticulture.

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Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

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New Offers in This Issue.**AM. BEAUTY, BRIDE, BRIDESMAID PLANTS.**

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WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR SALE CHEAP—Two Greenhouses, nearly new, to be taken down and removed. For particulars address W. C. Merritt, Washingtonville, N. Y.

FOR SALE—Five greenhouses containing 5,000 feet of glass, hot water heat. Town water. One acre of land 10 minutes' walk from depot; 1 minute from electric. Near churches, stores and schools. For particulars write A. F. Belcher, Foxboro, Mass.

FOR SALE OR RENT Place established twenty years, good local trade; no competition; town six thousand inhabitants. One acre land greenhouses covering seven thousand feet, with or without stock; 75 sashes, 3x6. Houses heated by two No. 7 Furman steam boilers. A. S. Lamb, Winchendon, Mass.

SITUATION WANTED in a private place by young man, 26, American; single; experience. Best of references. Address W. F. Ewell, West Medford, Mass.

SITUATION WANTED—As private gardener on place where there is a range of greenhouses. Best of references. Over 7 years in last place. Expert rose grower. Married. Address J. J., care HORTICULTURE.

WANTED—A few specimen plants of Polypodium Aureum. William W. Edgar Co., Waverley, Mass.

WANTED—Young man, 22 to 26, to work in greenhouses; \$55.00 per month. Reply to E. D. B., Office of HORTICULTURE.

WANTED—Young, single man for fruit range, Palms and Violet Houses. Wages \$50.00. Reply to E. J. C., Office of HORTICULTURE.

WANTED—Young single man for Greenhouse, who understands grapes. Wages \$35.00 and board. Reply to R. M. C., Office of HORTICULTURE.

WANTED—To rent with the privilege of buying if satisfied, a modern greenhouse of from 6,000 to 10,000 ft. of glass, good retail business in some live city or town in New England preferred. Address A. G. D., Box 296, Milbury, Mass.

OPPOSED TO FREE SEEDS.

At a meeting of the executive committee of the National Agricultural Press League held at St. Louis, Mo., recently, the following resolution was adopted:

Resolved, That the National Agricultural Press League is opposed to the government distribution of free seeds except so far as is necessary for experimental purposes in the introduction of new, rare and valuable seeds within the meaning of the original act authorizing seed distribution. The distribution of ordinary field, vegetable and garden seeds as a gift from the government is a degeneration from the original purpose and is not approved in principle nor practice by self-respecting farmers or farmers' associations throughout the country, and there is no more to be said in favor of government seed distribution as at present conducted than there would be in favor of a regular distribution to farmers or any other class of citizens of free beef, free sugar or free flour at the expense of the taxpayers of the country.

It is directed that a copy of this resolution be sent to all senators, members of Congress, the United States Agricultural Department, agricultural papers and to others interested.

(Signed) PHILIP H. HALE,
CHARLES F. MILLS,
JOHN M. STAHL,
Ex. Com. Agricultural Press League.

A WELL BUILT HOUSE.

W. C. Ward of Wollaston has his new house ready to glaze. This house is the largest of his range, being 140x21. A description of some of its special features will doubtless be of interest. The side and bench walls are of concrete. The side walls are 14 inches at the base tapering to 5 inches at the top. The bench walls are uniformly of 2 1/2 inches thickness. The purlines are of inch pipe supported by braces set at an angle and fastened to the centre posts. The centre posts and braces are also of inch pipe. An idea original with Mr. Ward is that the strength of these pipes would be increased by filling them solidly with cement and he has accordingly done so.

The side sash-bars which support the plate are set in the concrete wall, and against every fifth one is an angle-iron which would hold up the plate in case it was necessary to remove the sash-bars because of decay or for any other reason.

The walks are concrete and the structure will evidently be a neat and substantial one. It is safe to assume that Mr. Ward thinks the production of pansy blooms is fully up to the demand as he will grow sweet peas and dahlias in this house and not put any pansies in it.

GREENHOUSES BUILDING AND PROJECTED New Concerns.

Waban, Mass.—F. W. Rane, range of houses

Woburn, Mass.—Dobbins & Shannon, three houses.

Grand Island, Neb., Cheyenne, Wyo., Denver, Col., Ogden, Utah.—Union Pacific R. R.; series of greenhouses.

Additions.

Oakland, R. I.—Amos F. Darling, one house.

North Woburn, Mass.—Adam Foster, additions.

Grand Forks, N. D.—E. O. Lovell, one house.

Philadelphia, Pa.—Philip S. Smith, additions to houses.

PUBLICATIONS RECEIVED.

Fairbanks, Morse & Co., Cleveland, O. Vertical Gasoline, Gas or Kerosene Engines.

W. W. Rawson & Co., Boston, Mass. Wholesale Price List of Bulbs for Fall Planting.

The Report of the Commissioners of Lincoln Park, Chicago, for the year 1905, has been issued. It is mainly an account of income and expenditure during the year.

The Proceedings of the third annual meeting of the Alabama State Horticultural Society is received. It contains among other excellent things papers on irrigation, co-operative spraying, soil surveys, fruits, good roads, plant diseases, fertilizers, etc., by eminent specialists, indicating a healthy horticultural activity in this progressive southern State.

Volume 40, comprising the transactions of the Iowa State Horticultural Society and several affiliated bodies, is a bound volume of 500 pages, brim full of valuable information on practical horticultural topics and embellished with a number of half-tone illustrations of flowers, fruits, and gardens. Wesley Greene of Davenport is the

DREER'S GIANT CYCLAMEN



Our strains of these are grown for us by Europe's leading specialist, and are unmatched for size, free flowering, purity of color and habit of growth, if you want the best you must grow this strain.

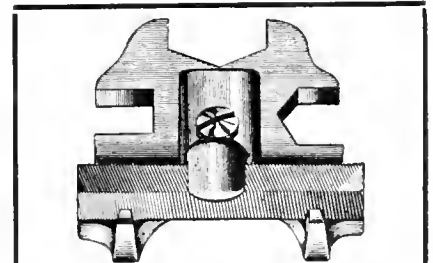
- Dreer's Giant Pure White
 - " " White with Carmine Eye
 - " " Blood-red
 - " " Rose
- 75 cts. per 100 seeds; \$6.00 per 1000

Dreer's Giant Mixed
60 cts. per 100 seeds; \$5.00 per 1000
250 seeds or more at 1000 rate

See our Mid-Summer Lists for CINERARIAS, PAISIES, FORGET-ME-NOTS, PANSIES, PRIMULAS and other seasonal seeds.

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The best device of its kind to date. Makes a perfect edge. A child can use it. Order a sample and see for yourself. 75 cts. postpaid. Liberal discount to Agents.

C. C. WATSON, Dobson Bldg., Cor. 9th & Market Streets, PHILADELPHIA

secretary. The volume is a credit to him and a copy should be in the hands of every garden owner in the State.

CATALOGUES RECEIVED.

H. F. Michell Co., Philadelphia, Pa. Wholesale Catalogue of Bulbs, Seeds and Seasonable Supplies for July and August, 1906.

Elm City Nursery Company, New Haven, Conn. Special Summer and Autumn Circular. Specialties, peonies, irises, and other herbaceous plants, evergreens, etc.

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FOLEY MFG. Co. 471 W. 22ND ST. CHICAGO

VENTILATING APPARATUS PURLIN FITTINGS, HOT-BED SASH & C.

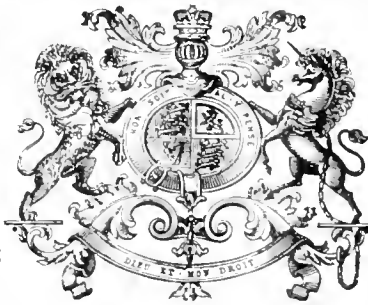
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Glazing Putty

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For Bedding Glass in Sash or for Filling Cracks or Seams

In Roof Joints or Frames of Greenhouses or Hotbeds.

It is used in Machine or Bulb. If too thick for bulb thin with a little Pure Linseed Oil, boiled. So thinned, it can be brushed into any crack or leak, making a solid filling. It makes a solid bed, impervious to moisture, and holds glass in its place, and will stop any crevice or fault. When once set on dry wood it does not heave. As regards the goods, the article is **no new invention**, but simply an article of the very best class, to do thoroughly good work, like old time gentlemens expected when sashes were made with lead, and small panes of glass used that caught the water and leaked unless set with an elastic putty which once set by a mechanic was expected to remain, and did remain in good shape. This Twemlow's Old English Glazing Putty does; nothing more, nothing less. **SOLD BY THE FLORISTS' SUPPLY HOUSES.**

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CAN BE SOLD
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Horticulture

The Annual Meeting of the Florists' Hail Association of America will be held at Fair Grounds Pavilion, Dayton, Ohio, at 3 P. M., Aug. 22, 1906.

JOHN G. ESLER,
 Secretary.

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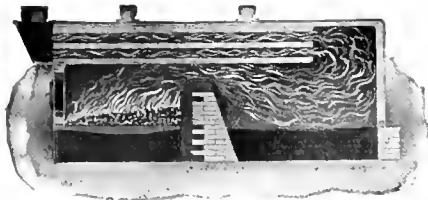
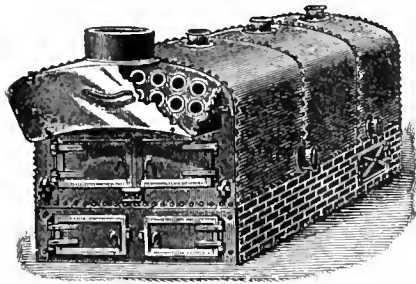
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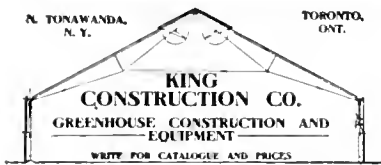
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OF TOMATOES**

grown on one bench 21 feet long and 5 feet wide—48 plants in all—in this U-Bar house. This is not a stunt either—not grown under any particularly fortunate conditions or extra fertilizing—Just the natural condition existing in U-Bar houses—the houses that let in the sunshine.

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Are the Best Greenhouses Built

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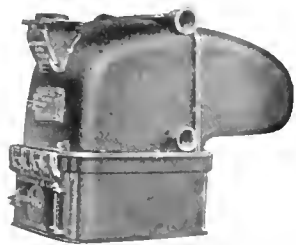
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to look for, but a big thing to find—those H & Co. initials on a boiler. It means it's a boiler for greenhouses—a boiler of economy of fuel and ease of arrangement—the boiler that is used by 50% of the florists.

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Packed in small crates, easy to handle.

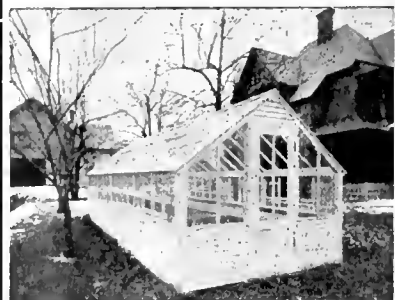
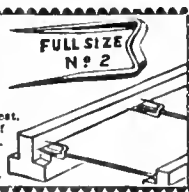
Price per crate		Price per crate	
1500 2 1/4 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/2 " " "	5.25	60 8 " " "	3.00
1500 2 3/4 " " "	6.00	HAND MADE	
1000 3 " " "	5.00	48 9 in. pots in crate	\$3.60
800 3 1/2 " " "	5.80	48 10 " " "	4.80
500 4 " " "	4.50	24 11 " " "	3.60
320 5 " " "	4.51	24 12 " " "	4.80
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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 percent. off for cash with order. Address Hillinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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See the Point
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FULL SIZE
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Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
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Here's A Greenhouse—

which satisfies. The special feature of portability is the cause. Not only that the appearance is perfection—the durability is pronounced—and the price is pleasantly low.

It's a house of satisfaction in fact.

Send for booklet No. G-48.

Chas. H. Manley,

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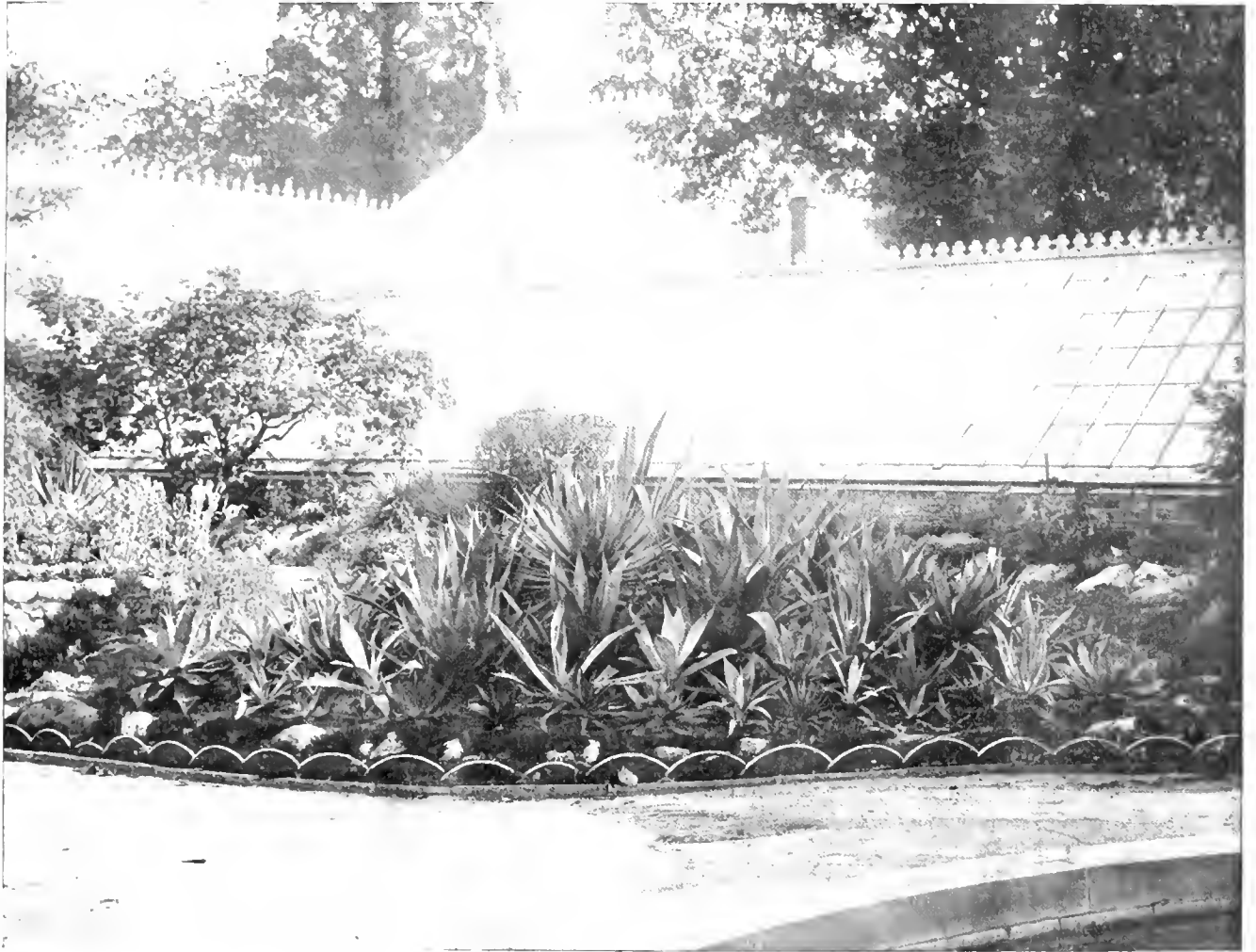
Standard Flower.. POTS

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

Vol. IV. AUGUST 11, 1906 No. 6

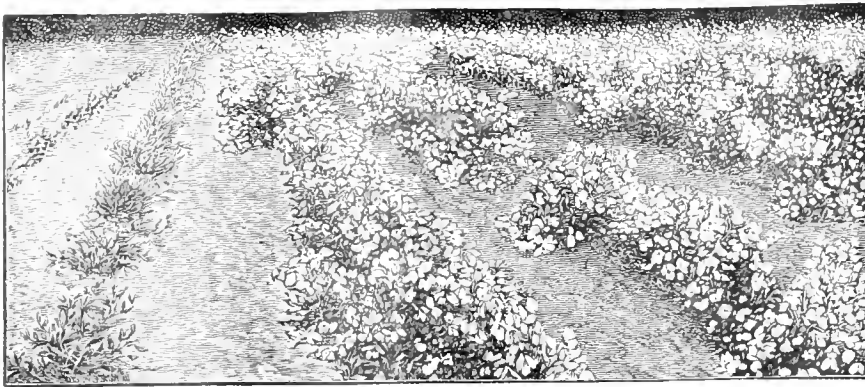


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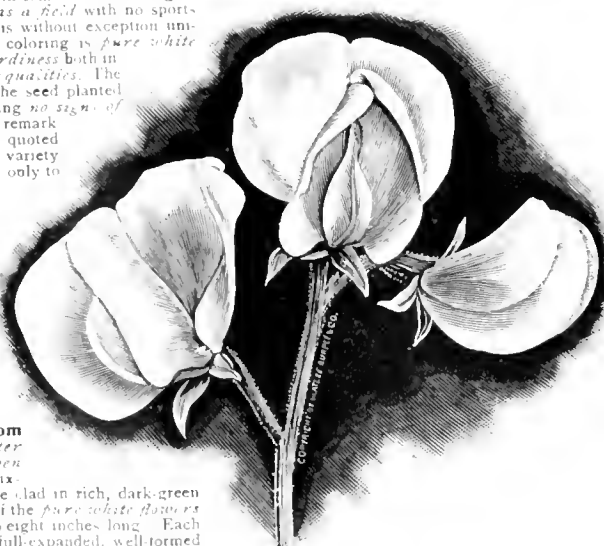
BURPEE'S EARLIEST WHITE.—in contrast with 'Mont Blanc' to the left.—(text on page 121)

New Sweet Pea, — Burpee's Earliest White.

Origin. Florists, who force Sweet Peas, can imagine our delight when, two years ago, our friend, MR. THOS. GORDON, of Ventura County, California, found that in a field of the *Re-selected Burpee's Earliest of All*, which he was growing for us, one plant, exactly similar in all other respects,—produced *pure white flowers*. Needless to say this plant was carefully guarded, and by growing two crops each season we are now able to introduce BURPEE'S EARLIEST WHITE as the only white Sweet Pea that will be used for forcing or extreme early crop,—just as soon as its unique merits are known and sufficient seed can be obtained.

Burpee's Earliest White has been carefully tested at FORDHOOK and the originator's crops thoroughly inspected in California during the seasons of 1904 and 1905. After returning from our first visit the past season (in July) we wrote that of the new crop then starting (with *Mont Blanc* alongside, we should like a photograph. On August 22, 1905, MR. THOS. GORDON sent a photograph from which the above illustration has been reproduced, and wrote:

"The crop planted July 12th came in bloom August 20th and is now quite white as a field with no spots whatever showing. The habit is without exception uniformly dwarf and even. The coloring is pure white and the stock is of unusual sturdiness both in germination and in growing qualities. The plants of *Mont Blanc*, from the seed planted the same day, are as yet showing no signs of bloom. In this line I should remark that in former tests wherein I quoted the *Mont Blanc* as a white variety next earliest bloomer it related only to one or two plants to the lot tested as competitors. As to the general blooming of the two varieties, the *Mont Blanc* was too far behind for real consideration. A description of *Burpee's Earliest of All*, excepting as to color will correctly apply to this new pea."



Burpee's Earliest White comes into full bloom forty-five days after the seed is planted in the open ground. The dwarf plants, sixteen to twenty inches high, are clad in rich, dark-green foliage and carry a profusion of the pure white flowers borne upon strong stems six to eight inches long. Each stem has two or three of the full-expanded, well-formed flowers, of good size and placed close together.

Burpee's Earliest White is not only as extremely early but also just as hardy as the famous pink-and-white *Burpee's Earliest of All*. It has black seed,—and is really the only clear white Sweet Pea that has. This insures a better stand, stronger and more thrifty plants.

Burpee's Earliest White will be welcomed by florists for forcing, because there is no other variety so early growing or sure-cropping, excepting only *The Re-selected Burpee's Earliest of All*, the earlier "pink and white". Like the latter, the plants under glass begin to bloom freely when only twelve inches high and continue to grow and flower profusely until, when six or eight feet tall they reach the top of the greenhouse, the plants can then be cut back, if desired, and will make an equally vigorous second growth. All florists know, of course, that the regular varieties of Tall Sweet Peas are of no value whatever for forcing,—if early flowers are desired.

Burpee's Earliest White is sold only in our original sealed packets,—and only direct to planters, none to other seedsmen. The seed is all hand-picked and every seed will grow. Per pkt. of 1 seed, 25 cts.; less one-third; 5 pkts. for 75 cts. net. Half-size packets: Per pkt. of 1 seed, 15 cts.; 2 pkts. for 25 cts.; 10 pkts. for 75 cts. net.

W. ATLEE BURPEE & CO.,

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FARQUHAR'S GRASS SEED MIXTURES

ARE CELEBRATED FOR
Hardiness, Purity and Permanency

Specially blended to suit all conditions of soil for Meadow, Pasture, Lawns, Golf Links, Putting Greens, Tennis Courts, Terraces, Embankments and Shady Spots.

Samples and Prices Upon Application
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ARE AHEAD IN GROWTH AND FLOWERS
Bloodred, Carmine, Pink, Purewhite, White with Carmine Eye,
Each color separate. Tr. Pkt. \$1.00; 1000 seeds, \$3.00. An even mixture of the above 5 colors, Tr. Pkt. 75c.; 1000 seeds, \$3.00.
Salmon Color
New, very striking. Tr. Pkt. \$1.00; 1000 seeds, \$3.00.
Silver Leaved New Hybrids
With semi-double flowers. Tr. Pkt. \$1.00; 1000 seeds, \$3.00.
Snowball
New, the real purewhite and largest in existence. Tr. Pkt. \$1.00; 1000 seeds, \$3.00.
For larger quantities, Special Quotations
O. V. ZANGEN, Seedsmen, HOBOKEN, N. J.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

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Rawson's Crumpled Leaf Lettuce
The largest and best head lettuce for early winter forcing under glass. Pkt., 10; oz., 40; 1/2 lb., \$1.10; lb., \$1.00. Mailed free at above prices.
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LILIUM HARRISII FOR EARLY FORCING

We offer some extra choice Liliun Harrisii which has been grown for us from the original pure stock. This is the kind of stock that you want for the very earliest forcing, as it is the true, original Harrisii. The small sizes—5-7s and 6-7s—are particularly desirable for this purpose, as they will flower more quickly than the larger bulbs. If you want to get a little of the original, pure Harrisii, try a case or two of this. As our stock of this is limited, we can offer only a few cases to a single buyer. If you have been dissatisfied with the Harrisii that you have forced heretofore, try a case or two of this, and see if it is not more than worth the difference in price over the stock that you have been buying. In ordering, ask for the pure selected strain of original Harrisii, which we offer as follows:

5 to 7 inch bulbs, 400 to the case,	\$17.00 per case
6 to 7 " " 350 " " "	17.50 " "
7 to 9 " " 200 " " "	20.00 " "

EASTER COMES EARLY THIS YEAR—MARCH 31st

and a great many growers will want to use Harrisii instead of Longidorum so as to be sure to have the plants in flower in time, as the season is going to be short for Japan Longidorum. The crop of Harrisii this year is the shortest it has been in years, and in view of the extra demand, we advise those who have not already covered their requirements to lose no time doing so.

For very earliest forcing—Christmas and later—we recommend the pure Harrisii offered above, but for later forcing, for Easter, our customers will find the regular stock offered below first-class stock—much better than the average stock usually offered. We can quote the regular stock as follows:—

6 to 7 inch bulbs, 335 to the case, \$13.50 per case

FREESIA REFRACTA ALBA, the true white variety. Now ready. Finest Bermuda-grown stock. \$1.00 per 100; \$7.50 per 1,000.

BERMUDA BUTTERCUP OXALIS, \$1.00 per 100; \$7.50 per 1,000.

F. R. PIERSON CO.

Tarrytown-on-Hudson - New York

**New Crop of my
Christmas Flowering
SWEET PEA SEED**

Christmas Pink and Florence Denzer, pure white, will be ready August 1st.

Those two well-known varieties are raised by over 2000 florists all over the world.—Here is one, out of many letters received:

Dear Sir: My sweet peas, which I raised from your seed, received the highest award at the Carnation Exhibit in Boston, being over 18 inches long.

JOHN T. GALE, Tewksbury, Mass.

Price 1-4 lb. 75c.; per lb. \$2.00
PAILED FREE

New Christmas Flowering Hybrids, 20 to 30 colors, mostly blue, salmon, purple, lavender, in mixtures; also Mrs. Edle Wild, carmine, separate color. 1 Trade pkt. \$1.00, 5 Trade pkts. \$4.00; not more than 5 pkts. taken in order to each customer just now. Those new hybrids are just as free bloomers as Christmas Pink and Florence Denzer, some much larger, and received first class Certificate of Merit by the Mass. Horticultural Society, Boston, March 24.

All seed originated with me is sold in my original sealed pkts., with cultural directions, to the growers, with none for seedsmen for propagating.

Orders filled strictly in rotation.

ANT. C. ZVOLANEK
Bound Brook, N. Jersey

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

GOVERNOR HERRICK
The NEW VIOLET

The finest single, the freest bloomer, the greatest money maker ever offer for sale. Write me today.
1 doz., \$2.00; 100, \$10.00; 1000, \$75.00;
5,000 or more at \$60.00 per 1,000

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Originator and Introducer
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have the finest stock of recognized Hardy Rhododendrons, Azaleas, Andromedas, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

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Landscape Gardener and Horticultural Expert

Estates Large and Small Laid Out, Graded and Planted

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Chrysanthemums Wanted

**150 Pink Ivory
250 White Ivory
250 Bonaffon**

Good Stock Ready to Plant Out

F. E. PALMER BROOKLINE, MASS

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NEXT ISSUE CONVENTION SPECIAL

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British Horticulture

A VISIT TO WISLEY

A journey through some of the most delightful parts of sylvan Surrey to the Royal Horticultural Society's gardens at Wisley is a pilgrimage taken by many ardent gardeners at this season. Recently I was able to spend a pleasant Saturday afternoon in exploring the beauties of the gardens, which were the munificent gift of Sir Thomas Hanbury to the society. The society has only been in possession a little over two years, so that the full plans have not yet been completed. A special feature is the wild garden, where is to be found a collection of plants brought together by Mr. G. F. Wilson. There is a very fine collection of rhododendrons, including a large number of named varieties. Then there are bamboos, azaleas, irises and bulbous plants of all kinds. The herbaceous and alpine plants comprise a number of anemones, gentianas, cyclamens and ferns of all kinds. Variety is added by the ponds, which are adorned with nymphæas and the leading varieties of aquatic plants. About five acres are set apart for fruit trees, the idea being to secure a selection of the best varieties. Some of the largest fruit growers have presented the society with a big stock of fruit trees whilst a liberal gift of rare trees has also been made.

SOME RECENT TRIALS.

A number of interesting trials are being conducted at Wisley this year. In continuance of the trials of violas commenced last year, a further batch has been under observation this season. The soil at Wisley is well adapted for this flower. The floral committee have awarded three marks to Viola Maggie Mott, of a pale blue tint; Royal Sovereign was regarded as the best yellow variety. White Emperor was the premier white, Marchioness being considered as synonymous. Archie Grant was the leading dark-blue bloom. There has also been a trial of sweet peas. This has not altogether proved satisfactory, owing to the large portion of the varieties which were found to be not properly fixed. The following varieties each received three marks: Countess Spencer, light rose; John Ingman, reddish rose; The Hon. Mrs. Kenyon, sulphur tinted; Mrs. G. Higginson, pale blue; Dainty, white, faintly tinted; Jeanie Gordon, pink and white; Helen Pierce, striped; Dorothy Eckford, white; and Helen Lewis, rose.

Some useful work is also done at Wisley in the vegetable trials. Last year 180 varieties of potatoes were tried, and of this number 12 received the approval of the committee. About 150 varieties of culinary peas were tried. It is found that each year an old friend comes up under a new name. Ne Plus Ultra is often found masquerading with a new title.

A CARNATION SPECIALIST.

Mr. S. Mortimer, who has taken an active part in the formation of the Winter-Flowering Carnation Society, has only turned his attention to the American section in recent years. Since October he has taken 12 medals for tree carnations. Many thousands of plants have been

raised at the nursery and sent to various parts of the United Kingdom. Mr. Mortimer considers that Etchamness is the best of the new varieties. He has been very successful with Mrs. M. A. Patten, some of the blooms being from three to four inches across. Nelson Fisher he regards as a great improvement on its forerunner, Mrs. T. W. Lawson. "Adonis," he states, "is a grand scarlet. Floriana is an enormous grower. Harry Fern and Harlowarden are fine varieties, and Alpine Glow is justly popular with the ladies." The plants are placed in an open position out of doors during the summer months and taken under glass again early in the autumn when the houses are cleared of fruit. In this way an abundant supply of carnations is obtained in the winter, whilst the houses are available for other purposes in the summer months. Besides the tree varieties most of the leading kinds of Malmaisons are cultivated.

DAILLIAS FOR EXHIBITION.

Mr. Mortimer has one of the finest collections of dailias in the country. He grows from 20,000 to 25,000 pots for export and winter sale, sending to all quarters of the globe, including America, Ceylon, India and South Africa. He has raised a number of popular varieties. Pink Perfection last year secured awards from the three leading societies. The new varieties among the show section are Blush Gem, Favorite, Delicacy, Mariner, Brown Bess and Caledonian. The new cactus ones are Pink Perfection, Alice Mortimer, Unique, Rising Sun, John Robson, J. Roldeeft, named after a Russian grower, Crimson Beauty, Mrs. R. E. Felton, Curiosity, Pharon, Octoroon and International. Cucumbers are also a specialty, the houses being devoted to raising for seed purposes. Fourteen new varieties have been raised by Mr. Mortimer, commencing in 1884 with Purley Park Hero. A fresh introduction this season, named Bounteous, is a cross between Delicacy and Progress, and this has received an award of merit from the Royal Horticultural Society. Tomatoes also receive attention, Winter Beauty, sent out by Messrs. Sutton & Sons, having been raised at Rowledge.

W. H. Adsett,

The Single Purpose

in the reading columns of this journal is to give intelligent readers the kind of matter which will be of interest and benefit to them. This has been our policy from the start and explains why a new paper has so quickly won a reputation for good advertising results. Every concern has its own way of doing business.

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WM. J. STEWART, *Editor and Manager.*

Support the
S. A. F.

We sincerely hope that the forecast of a record-breaking S. A. F. meeting at Dayton may prove to have been correct. Surface indications certainly favor it, and there appears to be no good reason why the membership list of the national society should not be largely augmented on this occasion and a due share of the prosperity existing and to come be accorded to this noble organization whose usefulness to its constituents is limited only by the measure of loyal support given it. Come in, one and all. "In union there is strength."

The flood tide of
prosperity

Already well into August, with the opening of the Dayton convention only a few days away and the September frosts close upon its heels, it is now time for every ambitious business man to "get busy" and plan for the work of the coming months which, if wisely begun, cannot but bring substantial gain. There is no apparent reason why the coming season should not be the greatest business year ever experienced in American horticulture. The staple crops, on which the well-being of our country depends, have broken the records this season, and predictions are freely made by those who should know, that we are in it for a period of great prosperity. Money will be spent freely for anything to make home attractive and existence a pleasure. Flowers and plants, trees and shrubs, conservatories and horticultural accessories of all kinds will get a generous share, and it behooves our readers to be on the alert to take full advantage of these halcyon days which we cannot expect to last forever. The man who fails to participate in the great activity now about to open throws away the opportunity of a lifetime.

Watch out for Horticulture's advertisers
next week

The next number of HORTICULTURE will be issued in honor of the Dayton convention and respectfully inscribed to the wide-awake florists of that enterprising city who have handled the preliminary work in so capable a manner, and will doubtless give an equally good account of themselves in the responsibilities yet to come, and to the far-seeing tradesmen, manufacturers and plant growers, who contribute to the magnificent trade exhibition which is now assured. All indications are for a large attendance, and, in anticipation of this, HORTICULTURE has made preparation to send out a very large edition of this convention number and will see to it that a copy is placed in the hands of every one in attendance at the meeting, also mailed to a goodly number of the stay-at-homes who are not already on our regular subscription list. The leading houses in all important horticultural lines will be well represented in the advertising columns, and we hope all good friends of HORTICULTURE will defer placing their fall orders until they have had an opportunity to see what these firms have to offer on this occasion, knowing that they will not be losers thereby in any respect.

The "black rot" among
the violets

The violet growers of Rhinebeck are greatly alarmed over the prevalence, this year, of the dreaded fungous disease known as "black rot." The florist trade will view the situation with marked concern for a considerable section of the country has come to depend largely upon Rhinebeck for violets, and any serious impairment of the fragrant product for which this Hudson River village has become justly famed cannot but affect the entire florist trade east of the Mississippi. We hope that Rhinebeck is not destined to join the ranks of the "has-beens" and fade into the background as a common sufferer with some other places once famed for violets, carnations or roses. Unfortunately a majority of the Rhinebeck violet growers are lacking in general horticultural knowledge or experience, having simply followed their neighbors one after another, into violet growing as a specialty, and shared with them the run of good fortune resultant upon a favorable soil and climate which often comes, under such circumstances, to those utterly without technical knowledge. When trouble appears then is the time for the trained and studious horticulturalist to come to the front and win out, and we are greatly mistaken if the experienced and well-read men amongst the Rhinebeck growers do not eventually prove to be the winners. None are so well versed, however, in plant pathology that they can afford to ignore the scientists of the agricultural experiment stations who, if called in, will be found willing to investigate to the limit and to give valuable advice and assistance. If the conditions are as bad as we have been informed every possible means of relief should be promptly utilized.

SWEET PEA REVIEW FOR 1906.

Nineteen six, for some reason or other, has been a poor season for sweet peas. The most generally accepted theory for this untoward state of affairs is the dry weather in May, followed by unusually copious rains and hailstorms in June and July. During the two latter months they would be drowned one day and scorched the next until one finally gave up hope of seeing them at their best for this year. The review by the writer, which appeared in your issue of July 29, 1905, was made under exceptionally favorable circumstances, the season having been ideal, and the field notes taken at a time when the majority of varieties were at their best. This year we have had to depend on the notes taken from day to day by the people in charge of the trial grounds of the Burpee Farm at Fordhook, these being superintended mainly by Mr. Darlington and revised and annotated by the manager, Mr. Howard M. Earl. The notes which follow may therefore be considered as a modification of the writer's last year's conclusions in the light of the present season's experience, and as a composite of the opinions of various authorities.

Among the whites it is generally agreed that Dorothy Eckford has the best substance of all, the only rival being Blanche Burpee, which is the better formed flower of the two. Benary's Mont Blanc must now take a back seat being superseded by Burpee's Earliest of All White, which is not only earlier, but is better both in form and substance. White Wonder is a great thing for bunching, but the individual flowers are small. This is made up for in number, however, there being usually from eight to thirteen on the twin spray which is a peculiarity of this variety as is also its tall growth (often 10 to 15 feet).

Among the yellows Mrs. Eckford is still up front, but if what our English friends say about Dora Cowper be all true (and if she makes good on this side) good-bye Mrs. Eckford. The Dora Cowper was awarded a certificate of merit by the National Sweet Pea Society recently and is described as a clear yellow and far superior in every way, both to Mrs. Eckford and Mrs. E. Kenyon. Queen Victoria and Mrs. Fitzgerald are among recent improvements in the yellow class and we must hold on to them until we see how the newcomers turn out.

Among the blush pinks Modesty is still a good one and must be given a prominent place in this class. Countess Spencer, the great 1904 novelty, a lovely pink with fluted edges, still holds her own among the prize winners and all that has been said of her stands.

In the dark class Mr. Earl still places Black Michael as the greatest novelty of them all. It is a dark claret magnificent as to size, form and substance, but even more remarkable for its dwarf habit of growth and dark green foliage. David R. Williamson is a fine improvement on the old "Blue and Purple."

Jeannie Gordon, a bright rose with creamy wings, holds good in her class as yet, though she is far more popular in England than here. Agnes Johnston another bright rose but distinguished by the wings and standards being slightly flushed with pink. Mrs.

Knights Smith, when it comes true, is a fine flower of a distinct pink but experience in selecting this variety has proven that it is very difficult to get it true. Prima Donna still holds its ground among the pinks but is gradually being superseded by Janet Scott which latter is one of the handsomest for use in bouquets. It has large flowers of the purest pink and always three to a spray. Gladys Unwin, a lovely pink, a shade lighter than Countess Spencer, which it resembles in form. Mr. Earl thinks Countess Spencer is the one to watch carefully for new developments. It is a new type and will undoubtedly give us many more with the distinct wavy or ruffled effect in the standard and wings. Florence Spencer is one of this progeny, but it will take another season to decide its merits alongside Gladys Unwin.

Scarlet Gem is as near a dazzling scarlet as it is possible to imagine a sweet pea. The flowers are under the standard as to size, but the brilliant color makes up for all defects. Queen Alexandra described by Eckford as a dazzling scarlet, shows a trifle darker than Scarlet Gem at Fordhook. It is a magnificent variety and sure to be popular as soon as sufficient seed can be saved to warrant offering same at a moderate price.

King Edward VII. is just as good as when described a year ago, and has made good in every way. It is a glowing red self and the best to date in its color. Coccinea has a place of its own where a distinct rich cherry red is required but the flowers are small and only two to a spray. Salopian was the parent of King Edward, but it burned badly in our hot sun. Then came Sunproof Salopian, but it also burns though not so badly.

The grand new color (orange salmon) of which Henry Eckford is the type has not stood our hot summer very well, but the exceptional season must be taken into account. In order to get the best results in color effect it should be planted in a partially shaded situation. The National Sweet Pea Society has commenced a new color section with this variety as the type.

In the salmon-orange class those deserving of special mention are: Gorgeous, Hon. F. Bouverie, Lady Mary Currie and Mrs. Willmott. But the best of the section is undoubtedly Helen Lewis, a seedling of Countess Spencer of immense size and a general color effect of salmon pink, although a closer examination shows a crimson orange standard with orange rose wings. This was originally introduced by Burpee as Mrs. Sydenham, but as it was christened on the other side as Helen Lewis the other name has been dropped.

Lord Kenyon, of a deep pink, is ahead of Lord Roseberry, which is a shade lighter and has smaller flowers. Her Majesty is still good, but Majestic is better, both in form and color. The best of all the rose pinks is John Ingram, a Spencer seedling, introduced by Burpee. This supersedes easily the popular Prince of Wales, which in its time topped the rose pink column.

Of the three latest Eckfords, Sybil Eckford is the least attractive. In our climate the color is a delicate blush pink and the flower is not nearly so good as we had reason to expect.

Among the oddly marked varieties

Helen Pierce a Morse novelty of last year, shows up well. It is a good sized flower with a white ground flaked with blue and light purple.

G. C. WATSON.

SWEET PEAS IN WINTER.

Can you tell what time I should plant sweet peas to have them in bloom at Christmas time? Also can they be grown and give as many flowers in a cool house that is kept from 36 to 40 at night and 55 to 60 in daytime except upon especially sunny days?

For Christmas flowering sow September 1, if grown at a temperature of 50 degrees nights and 60 degrees to 65 degrees in daytime. They can be grown at from 36 degrees to 40 degrees at night but, in that case, will not bloom until spring. WILLIAM SIM.

THE HICKORY TUSSOCK MOTH.
Editor HORTICULTURE:

Dear Sir:—Will you please name the enclosed specimens and tell me all about them. Yours truly,

J. E. E.

The specimens sent in are *Haliidota caryae*, larvae of Lepidoptera, family Arctiidae, or in common words they are the caterpillars of the hickory tussock moth or tiger moth.

The life history—or cycle of existence—is as follows: The moths appear from winter quarters about June and lay their eggs, which hatch in a few weeks into the pretty tufted caterpillars often found feeding on the elm, ash, hickory and butternut in August and early September.

The caterpillars are covered with clusters of short white hairs and have a row of eight tufts of longer black hairs down the back. Each section of the body is marked with a dozen black spots and a few fine black lines. Two pencils of very long black hairs arising from the first segment and extending forward, and two more reaching backward from the seventh segment give them a close resemblance to the tussock moth, *Notolophus leucostigma*, to which, in fact, they are closely related.

In September the caterpillars attain their growth, and are about an inch and a half long. They crawl down from the trees then and form their cocoons under stones, or in chinks of walls. Here they stay until the following spring, undergoing the change from caterpillar to butterfly. The cocoons are grayish in color, thick, short, blunt, and made mostly from the hair of the caterpillar.

The following June they emerge as dark ochre-yellow moths with a wing expanse of 1.7-8 to 2.1-4 inches. The fore wings are long, narrow and marked with numerous brown and white dots and two brownish stripes running parallel to the outer hind margin. The hind wings are thin and semi-transparent.

These moths lay the eggs for the next brood, thus completing the life history.

The caterpillars are seldom troublesome and rarely ever attack valuable shade trees or crops. If they ever do occur in sufficient numbers to do damage, they can be easily controlled by spraying the foliage with some arsenical insecticide.

R. L. ADAMS.

CONVENTION TOPICS

THE PROGRAM IN BRIEF.

The twenty-second annual meeting and exhibition of the Society of American Florists and Ornamental Horticulturists will be held at Dayton, Ohio, August 21, 22, 23 and 24, 1906.

TRANSPORTATION

A reduced rate of one and one-third fare, on the certificate plan for the round trip, has been granted by all railroad and steamship lines in the United States represented in the trunk line and passenger committees, except in the state of Ohio, where a uniform rate of two cents per mile has been established by law.

Be sure that, when purchasing your going ticket, you request a "certificate."

Present yourself at the railroad station for ticket and certificate at least 30 minutes before the departure of train.

On your arrival at the Convention Hall, present your certificate at once to Secretary Stewart, accompanied by a fee of twenty-five cents, who will return the certificate to you after it has been duly validated, for return journey, which will entitle you, up to August 31, to return ticket at one third the limited fare, excepting that for points west of Chicago and St. Louis and north of Kansas City generally the return limit is August 28.

HOTELS IN DAYTON.

All hotels are within one square of all street cars, taking you to the exhibition grounds within ten minutes.

Anyone wanting accommodations, if no individual arrangements are preferred, should make application as soon as possible to J. B. Heiss, chairman of hotel committee.

THE TRADE EXHIBITION

The trade exhibition will be located in the central pavilion at the fair grounds. Full rules and regulations, together with diagrams of the exhibition hall, may be obtained from Horace M. Frank, superintendent, 112 South Main street, Dayton, O.

OUT DOOR EXHIBITION.

This convention offers the first opportunity in the Society's history to make a display of out-door planted material. Harry M. Altick, vice-president, has charge of this department.

BULBS FOR TESTING.

American growers of any forcing bulbs, plants or seeds of sorts not yet grown in this country in commercial quantity, or dealers controlling stocks of such goods, will be given space free of charge for the exhibition of samples as heretofore. Please make entries with the secretary.

PAYING DUES.

Members will greatly promote their own comfort and convenience by forwarding their dues to the secretary in advance. On receipt of \$3.00 from those who have paid membership dues for 1905, and \$5.00 for all others, certificate, badge book, and numbered badge for 1906 will be mailed from the Secretary's office. The Secretary's address is Wm. J. Stewart, 11 Hamilton Place, Boston.

Program.

OPENING SESSION, TUESDAY, AUG. 21, 2 P.M.

The opening session will be devoted to an address of welcome by Mayor Chas. F. Snyder, response by Ex-President Patrick O'Mara; the annual address of the President, and reports of Secretary, Treasurer, State Vice-Presidents, Committees, and other officials of the Society.

JUDGING EXHIBITS.

Judges will examine and prepare their reports upon the novelties and new inventions in the trade exhibition immediately after the close of the opening session.

PRESIDENT'S RECEPTION, 7 P.M. This always-popular school feature will be held on Tuesday evening at Far Hills, the private estate of Mr. John H. Patterson, under the auspices of the Dayton Florists' Club. Music, refreshments, and grand illumination of the grounds.

SECOND DAY, WEDNESDAY, AUG. 22, 9:30 A.M.

Following reports of judges at the morning session, Wednesday, Aug. 22, the prize essays prepared by members on the subject of "The Best Method of Marketing the Product of the Wholesale Plant and Flower Grower," will be presented and the awards announced.

SELECTION OF NEXT MEETING PLACE AND NOMINATION OF OFFICERS.

The selection of the location of the next meeting polls open one hour, nomination of officers and roll-call of States for nomination for State Vice-Presidents for next year will take place at this session.

ADDRESS.

"Teaching Horticulture in the Public Schools," by E. V. Hallock, N. Y. Discussion.

Voting on amendments to constitution and by laws.

BOWLING TOURNAMENT, 1:30 P.M.

Alleys at Fairview Park and Lakeside Park. For instructions as to entries, etc., address George Asmus, 897 Madison Ave., Chicago, Ill.

PROMENADE CONCERT

There will be a promenade concert at the Exhibition Building during the afternoon.

FLORISTS' HALL ASSOCIATION OF AMERICA, 3 P.M.

Annual meeting at Convention Hall.

ILLUSTRATED LECTURE AT 8 P.M.

Title and lecturer to be announced later.

QUESTION BOX

The Question Box will be opened after the close of the lecture, and a general discussion will be in order upon a number of practical topics.

AMERICAN CARNATION SOCIETY.

Meeting of members at the Algonquin Hotel, immediately after adjournment of the evening session of the S. A. F.

THIRD DAY, THURSDAY, AUG. 23, 9:30 A.M.

Subjects for discussion at the morning session, Thursday, August 23, will be:

"Recent Improvements in Retailers' Methods of Offering Flowers," Papers by W. F. Gude, Washington, D. C., and Irwin Bentermann, Indianapolis, Ind.

"The Ideal Private Gardener and His Work," by Fred E. Palmer, Brookline, Mass.

ELECTION OF OFFICERS, 10 A.M.

Polls open two hours.

QUESTION BOX.

The Question Box will be opened during the voting.

EXHIBITORS' DAY.

Thursday afternoon will be devoted exclusively to the interest of the exhibitors. There will be band concerts noon and evening.

EVENING SESSION, 7:30 P.M.

Addresses and a discussion on the proposed National Flower Show, Unfinished business.

FRIDAY, AUG. 24, DAYTON FLORISTS DAY.

At 10 A.M., a trip to the National Cash Register Co., the model factory of the

world. In the afternoon at 2 o'clock, a street car ride to Soldiers' Home; band concert at the Home by Uncle Sam's band; address at Memorial Hall.

CHAIRMEN OF CONVENTION COMMITTEES.

Exhibits—Horace M. Frank, 112 South Main Street.

Reception—F. W. Ritter, 832 River Street.

Hotels—J. B. Heiss, 112 Main Street.

Entertainment—Chas. Lutzenberger, Philadelphia Street.

Finance—H. H. Ritter, 435 West Grand Avenue.

Ladies—The Misses M. and L. Johnson, 142 South Jefferson Street.

Decoration—John E. Freudenberger, National Cash Register Co.

CONCERNING YOUR ARRIVAL IN DAYTON.

The Exposition Hall will be a thing of beauty, and the exhibition large. The leaders in the parade of the trade have been coming forward like men. Now, you members of our association, be liberal with your patronage, and encourage these men to do likewise at the next meeting place. The signs in the big dome will inform you of the foremost leaders in the business without having made an exhibit.

When you arrive in Dayton, make free use of the Bureau of information at the depot. It will be conducted by the Merchants Police of Dayton, under the control of the Dayton Florists' Club. Do not forget to register at once with the National Secretary, Mr. Stewart, at the Exhibition hall.

The club has made arrangements with the Xenia Traction line to give us a five minutes service from the Algonquin Hotel to the Fair Ground; there will always be a car awaiting coming and going. Signs on the cars will inform you that this is the official line; take no other line. Members will benefit the Florists' Club in part by patronizing this line. The other line, which is called The Southern Ohio Traction Company, refused to grant any concessions whatsoever on the service.

Also arrangements have been made with the official line to sell six tickets for 25 cents or twenty-five tickets for \$1.00 with the privilege of transferring to any line in the city of Dayton, either way. You can procure your tickets from the conductor or else at the secretary's office in the exhibition hall. In order to reach Far Hills for the Presidential reception, special arrangements have been made with the Oak Wood line that will give you two minutes service either coming or going to Far Hills until 11:30 P. M.

All visitors are requested to stay the full length of time if possible for the last day will be just as instructive and entertaining as the first one.

As I stated before, you will find furnished on the ground for inner man all at the most reasonable prices, and bills of fare, etc., are under the control of the Florists' Club. However all concessions are given out free of charge, and should there be any discourtesy or inattention of waiters, please report at once to the chairman, J. B. Heiss.

A book for complaints you will find

at the Secretary's desk, and everything will be remedied at once.

On arriving in the city you may leave your baggage checks or baggage at the depot with official baggage master at the Union Station, who will take charge and it will be delivered to your hotel, or boarding house at once.

Do not hesitate to make known your wants. If you want any help in finding accommodations, either hotels or boarding houses, do not hesitate to make it known to

J. B. HEISS.

FLORIST CLUB OF PHILADELPHIA.

Philadelphia wants the convention in 1907! The question was brought up by W. K. Harris at the regular monthly meeting of the club on the 7th inst., and it was voted unanimously to extend an invitation, and a committee with Robert Craig at its head was appointed to lay the matter formally before the convention. This may seem a tame proposition but it must be remembered that this is the first time in twenty years that Philadelphia has formally instructed her delegates to extend an invitation. We have had the convention twice (in '86 and '94), more by acclamation than invitation, and we feel that after twelve years it is up to us to again extend our hospitality and to do so in the most cordial manner. At the same time we want no brass-band, placard-and-button idea injected into the invitation. We wish the delegates to feel entirely at liberty to decide where they want to go. If it's Philadelphia, we welcome them; if it's some other place, all right. We are the same loyal crowd either way.

Of course, we have an irresistible attraction in having Atlantic City at our door step, and some of the finest horticultural establishments to visit, besides many interesting historical associations clustering around our old town, and after twelve years we must be an un-opened oyster to the younger generation. We don't see how they can resist accepting our invitation.

Routine matters such as transportation, hotels, etc., took up some time and were satisfactorily disposed of. Mr. Westcott announced that \$50.67 was the best rate he had been able to get from the railroads and that the start would be made on the afternoon train of Monday, the 20th. All going must notify Mr. Westcott at once, so as to secure proper accommodations. Don't put this off, do it now, soon as you read this

The special subject for the September meeting will be a review of the convention from various standpoints—retail, commission, seed trade, grower, etc. The essayists will be announced in due course.

CONVENTION SPORTS.

In addition to the regular bowling tournament, for which elegant team and individual prizes have been provided, a suitable number of prizes will be provided for competition by the trap shooters.

The skill of the florist shooters having been exploited in this city has called forth a challenge from one of our local clubs, for a friendly team shoot, either five men or ten men teams.

We hope that all florists skilled in

this sport will bring their guns with them so that we may qualify a team that will uphold our reputation and that will be able to hustle these local shooters, and there are some "good ones."

H. M. ALTICK,
Chairman Local Committee on Sports.

The Florists' Club of Columbus, O., will have a special meeting this week to arrange the various details of the Dayton trip; it now looks as if over fifty would go from there.

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting and floral display of this society took place on the 3rd instant. The exhibition of flowers maintained the excellence of previous shows this season. Lager & Hurrell staged a variety of their choice products, prominent among which was a new hybrid Laelio-Cattleya exhibited for the first time, named Lady Bernice, the product of Cattleya gigas atropurpurea x Laelia purpurata. The blooms measured seven inches across, were lilac in color suffused with purple, dark purple lip, throat yellow and maroon. It received a first class certificate. Joseph A. Manda exhibited some rare cypripediums and a vase of epidendrum, the first products of his new houses in West Orange. The private estates of Henry Graves and William Barr furnished rare orchids: The first the exclusive hybrid cattleya, Henry Graves, Jr., and the second, Cattleya Loddigesii and gigas for competition, and a miscellaneous collection for display. A large miscellaneous exhibit of seasonable herbaceous plants was sent in from the Colgates, William Runkle, John Crosby Brown, Chas. Hathaway, Stewart Hartshorne, Col. H. A. Potter and others.

The paper for the evening was read by Arthur W. Bodwell, gardener for William Barr, upon "The Culture of Orchids as Viewed by a Private Gardener." It was entertaining both for itself and the discussion it provoked in which Jos. A. Manda, John E. Lager, Henry Hurrell, Geo. Von Qualen and others took part. Robert Berry was present and acted with A. T. Caparu and M. McRorie as judges.

The society decided to have a special fall flower show.

JOS. B. DAVIS.

AMERICAN ROSE SOCIETY.

The Executive Committee held a meeting at the Fifth Avenue Hotel, New York City, and took up the matter of preparing the way for the next annual meeting and show at Washington. The Washington Florists' Club have joined hands to make a strong effort for a handsome showing.

The committee went over the prize schedule of last year and spent some time in devising means to secure ample prizes for the exhibit.

The effort is being made to gather



WASHINGTON,
D. C.

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SEED TRADE TOPICS

together and put into permanent form the history of the organization which was first started at Atlantic City in 1894, and the present organization which was put in force March 13th, 1899, Mr. W. C. Barry of Rochester being the first president of the society. The motto which was proposed at the executive meeting, for the organization was, "A rose for every home, a bush for every garden."

The sense of the committee is that the society should be broadened out to make it as comprehensive as its name, that "American" represents no section but takes in the entire bound of the zone where roses grow.

Yours respectfully,
BENJAMIN HAMMOND,
Sec. American Rose Society.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The Saturday exhibition of the Massachusetts Horticultural Society on August 4 was devoted to annuals and perennials. Harvard Botanic Garden, Blue Hill Nurseries, and Mrs. J. L. Gardner were among the largest exhibitors. T. C. Thurlow, Mrs. J. B. Lawrence, W. G. Winsor, Towle's Dahlia Garden, fine dahlias; E. F. Dwyer, H. A. Stevens & Co., T. C. Thurlow, Langwater Gardens, phloxes. A first-class certificate of merit was awarded the Blue Hill Nurseries for *Gypsophila paniculata* fl. pl. Lager & Hurrell for Vanda Miss Agnes Joachim, and E. E. Dwyer & Son received honorable mention for *Heuchera brizoides*.

There was a meritorious display of fruits and vegetables.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Lager & Hurrell, Summit, N. J., submit for registration orchid seedling *Laelio-Cattleya* Lady Bernice. *Cattleya gigas atropurpurea* x *Laelia purpurata*. Flowers large, 7 inches across, sepals and petals lilac with numerous and delicate mottles and veins of rosy purple superimposed, these accentuating more toward the tips of the petals. Lip wavy, 2 inches across, dark purple with a minute margin of rose. Lower part of throat with numerous yellow and reddish-brown longitudinal veins, upper part or sides of tube orange yellow.

W. J. STEWART, Secretary.

Much has been said and written regarding the tendency of peas to "sport" or depart from their true type. Men in this line of business have spent years trying to get types so fixed that they would be free from this characteristic, but no one has succeeded, because we cannot change nature. Nearly everything in the animal and vegetable kingdoms shows this tendency, and eternal vigilance alone prevents reversion to original types.

We know that certain breeds of hogs, sheep, horses and cattle have "run out" or become extinct. In every case these breeds have been the result of crosses of two or more other breeds. In the vegetable kingdom the same rule obtains.

If any one will take the trouble to compare the seedsmen's catalogues of to-day with those of forty years ago, he will not only be surprised at the great increase in the number of varieties, but if he can remember back twenty-five or thirty years, will realize the very great improvement which has been made in those varieties. Compare the magnificent tomatoes we have to-day with the pale, watery, seedy specimens of twenty years ago and, taking the entire list of vegetables from asparagus to turnips, the same improvement in types can be shown, though perhaps not all in the same degree as in the tomato. Many of the standard varieties of thirty years ago are not only obsolete, but extinct, the standard varieties of to-day being so vastly superior that the old ones would be unsalable.

Probably in no single instance has greater improvement been made than in peas. Any one familiar with the seed business in the early '70's, knows that our list of peas then consisted of the common Field variety, Early Kent, White and Black Eye Marrowfats, and Champion of England. This latter variety was one of our first sweet wrinkled peas, and was an immense advance over the Early Kent, and the Marrowfats. Compare the magnificent varieties of to-day with those enumerated and one can see the great advance that has been made in this important vegetable.

What would our friends in the canning trade do if they had to pack the smooth, hard Early Kent, Marrowfats or the Champion of England? No doubt the latter would make an excel-

lent quality, but suppose it were the only sweet pea the canner had? Every canner will be able to answer this question, and all that need be said is that no canner to-day uses the Champion of England. Reverting to the problem of why peas "sport," it may be stated that no one has yet given an authoritative or satisfactory explanation, and it can only be said to be the "nature of the critter." It is well known that peas of last year's crop planted this year may show from ten to fifteen per cent. of "sports," while the same seed carried over and planted next year may not show over two or three per cent. Climatic conditions are largely responsible for this "sporting," and this fact is as well established as any fact can be.

Any one dealing with the farmer knows that when he grows a crop on contract and the seed is furnished to him, any partial failure of the crop or any departure from the true type is always charged to the seed, and the less the person knows about the vagaries of seeds and the peculiarities of plants, the more vociferous he is in charging everything to the seed. When the farmer plants wheat, oats, rye, barley, field corn, potatoes, or in short any crop, and furnishes his own seed, particularly if it be not a contracted crop, he seldom thinks of charging any failure to the seed.

However it may be only fair to say that seed peas are not always as good as they might be made. Perhaps the crop was not rogued as closely as it should have been, and no doubt many crops receive precious little attention, and even the best might be made better, but when all is said, the fact remains indisputable that no man living can answer for the vagaries due to climate, or other conditions over which the producer of the seed has no control. As well ask him to control the elements themselves as their results. If the manufacturer cannot absolutely control the quality of his product, how can the man who has such a changeable and fickle pattern as mother nature?

Howard M. Earl of Burpee's returned from an extended trip through Louisiana, Texas, Michigan and New Jersey on the 26th ulto. He reports on crops as follows:

All eyes are now centered on the onion seed situation. It will soon be time for estimates that will mean something. There is quite a glut of tomatoes at Sundersboro, N. J., where are grown hundreds of acres of Spark's Earliana for shipping. Many cars are now being shipped daily to points in New England.

Watermelons are scarce and those who are fortunate enough to have a crop are "making money." The canning varieties of peas—Alaska, Admiral, McLean's Advance and other varieties grown especially for this purpose are reported short.

Beans are looking well and it season

If you are interested in violet growing read George Saltford's book on violets. A practical treatise by a practical man. We mail it postpaid for 25 cents. Order now.

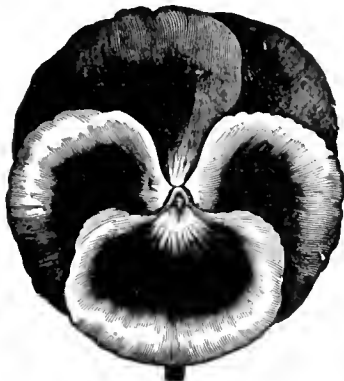


Gardeners' and Florists' Club of Boston at Waushakum Grove

New Crop JOHNSON'S Prize-Winner PANSIES

From the World's Famous Growers

"These superb Giant Pansies are veritable Prize Winners wherever exhibited. Their extraordinary size, vigorous, compact habit, long, stiff stems, heavy texture, wide range of magnificent colors, and distinctive markings have made them famous with the most critical Pansy Growers of the United States and Canada."
 "Johnson's Kingly Prize Winner Pansies are the product of the world's leading Pansy Specialists, and absolutely unsurpassed in quality by any strain extant. We offer seed as follows: 1000 seeds, 50c.; 2000 seeds, 50c.; 5000 seeds, \$1.00; 10,000 seeds, \$1.25; 100,000 seeds, \$5.00."



One of Our Kingly Pansies.

Johnson's Popular Pansies

Headquarters for the Best English, French and German Strains

	Large Trade Pkt. (2000 seeds)	Per Oz.		Large Trade Pkt. (2000 seeds)	Per Oz.
Azure Blue	20		Snow Queen, satiny white	20	75
Belgian Striped	20	75	Striped and Mottled, large flowered	20	75
Black (Faust)	20	75	Gold Margined	20	75
Bronze shades	20	75	Havana Brown	20	75
Emperor Frederick (new) dark red	20	75	Meteor (new), bright brown	20	75
Emperor William, ultramarine blue	20	75	Peacock, ultramarine blue, deep claret and white	20	75
English, large flowering, fine mixed	25	1.00	Red Victoria (new), very fine	25	1.00
Fine Dragon, fiery orange and bronze	20	75	Red Riding Hood, red shades, fine	25	1.00
Fire King, golden yellow, upper petals purple	20	75	White, pure	20	75
French, large flowering, finest mixed	20	80	Yellow, pure	20	75
Prince Bismarck, deep purple violet	20	75	White, with dark eye	20	75
Lord Peaconsfield, beautiful golden bronze	20	75	Fine, mixed	16	60
Quadricolor, or Pheasant's Eye (Rainbow)	20	75	Fine English, Mixed	20	75

New Fall Catalogue of Bulbs and High-class Flower Seeds

JOHNSON SEED CO.,

Herbert W. Johnson (of the late firm of Johnson & Stokes), President

217 Market St., PHILADELPHIA, PA.

continues favorable we can expect another large crop. This weather is hard on onion sets.

A WARNING ABOUT SHEEP MANURE.

Owing to the high price of mutton during the past spring the sheep in the vicinity of the big markets have been sold off to the extent that it is at present very difficult to get sheep manure that is good. Gardeners and florists should avoid purchasing the product of the stock yards of Chicago, Omaha and St. Louis, for the reason that at these places the sheep are fed largely with wheat screenings and the manure produced is apt to be filled with objectionable weed seeds. If good manure is to be had it must come from points much further west where, because of the great distance, raisers are not so anxious to take advantage of stock yards' markets.

BUSINESS CHANGES.

H. B. Lewis of Pontiac, Mich., has moved into more commodious quarters at 81 N. Saginaw St.

Thomas Heskey of Hopedale, Mass., has purchased the greenhouses of Norcross & Stratton, Grafton, Mass., and will take early possession.

D. C. Lines of Milford, Conn., is refitting his greenhouses and intends to return to the business in which he had been engaged many years.

F. W. Wilson of Detroit has leased the store No. 34 N. Main St., Gloversville, N. Y., and will open about August 11 an up-to-date florist's establishment.

QUALITY SEEDS & BULBS PLANTS

SEND FOR CATALOGUE.

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Burpee's Seeds

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Blue List of Wholesale Prices mailed only to those who plant for profit.

CYCLAMEN SEED

New Crop MICHELL'S GIANT STRAIN

Grown for us by one of the leading growers in Europe, and for size of blooms and free flowering qualities cannot be excelled.

	100 Seeds	1000 Seeds
GIANT WHITE	.75	\$6.00
GIANT PINK	.75	6.00
GIANT RED	.75	6.00
GIANT WHITE, with Red Eye	.75	6.00
GIANT MIXED	.60	5.00

NEW CROP PANSY SEED

Michell's Giant Exhibition Mixture

For size of bloom, length of stem, rich coloring and distinct markings this strain cannot be excelled. Has been awarded First Prize wherever exhibited. Price, trade pkt., 50c.; 75c. per 1/2 oz.; per oz., \$5.00.

Send for our Wholesale Catalogue of Seeds, Bulbs, and every requisite for the greenhouse and garden.

HENRY F. MICHELL CO.
1018 Market St., Philadelphia, Pa.

SOW NOW.

Breck's International Prize Mixed Pansy.

JUST IMPORTED.

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS.

Now Ready

Zirnglebel's Prize Pansy Seeds in trade packages, \$1.00 each. Giant Market, 2000 seeds; Giant Fancy, 600 seeds. Full directions with each package.

AUGUSTUS ZIRNGIEBEL, Needham, Mass.

Cabbage Worms

Killed by lightly dusting with **HAMMOND'S SLUG SHOT**

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TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO August 6	ST. LOUIS July 30	PHILA. July 30	BOSTON August 9
ROSES				
Am. Beauty and Edgely Fan, & Sp.	15.00 to 25.00	15.00 to 20.00	20.00 to 25.00	10.00 to 25.00
" Extra.....	8.00 to 10.00	10.00 to 12.50	15.00 to 18.00	8.00 to 12.00
" No. 1.....	5.00 to 6.00	6.00 to 8.00	10.00 to 12.00	4.00 to 6.00
" Lower grades.....	2.00 to 4.00	3.00 to 5.00	5.00 to 6.00	.50 to 2.00
Bride & 'Maid—Fan, & Sp.....	5.00 to 6.00	4.00 to 5.00	5.00 to 6.00	3.00 to 4.00
" Ordinary.....	2.00 to 4.00	2.00 to 3.00	3.00 to 4.00	.50 to 2.00
Golden Gate, Fancy.....	5.00 to 6.00	4.00 to 5.00	5.00 to 6.00	3.00 to 4.00
" Ordinary.....	2.00 to 4.00	2.00 to 3.00	3.00 to 4.00	.50 to 1.00
Liberty, Fancy.....	5.00 to 6.00	4.00 to 5.00	5.00 to 6.00	4.00 to 8.00
" Ordinary.....	2.00 to 4.00	2.00 to 3.00	3.00 to 4.00	.50 to 3.00
Richmond, Fancy.....	5.00 to 6.00	3.00 to 4.00	5.00 to 6.00	4.00 to 8.00
" Ordinary.....	2.00 to 4.00	2.00 to 3.00	3.00 to 4.00	.50 to 3.00
Kaiserin, Carnot, Chateau, Fancy.....	5.00 to 6.00	4.00 to 5.00	6.00 to 8.00	4.00 to 8.00
" Ordinary.....	2.00 to 4.00	2.00 to 3.00	3.00 to 5.00	.50 to 3.00
CARNATIONS				
Fancy.....	1.50 to 2.00	1.00 to 1.50	2.00 to	1.00 to 1.50
Ordinary.....	.75 to 1.00	.75 to 1.00	1.00 to .....	.50 to .75
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to .....	..... to	30.00 to 50.00
Lilies.....	6.00 to 8.00	..... to .....	..... to 12.00	5.00 to 8.00
Gladioli.....	2.00 to 3.00	..... to	3.00 to	1.00 to 4.00
Asters.....	.75 to 2.00	..... to	1.00 to 2.00	.15 to .35
Lily of the Valley.....	2.00 to 3.00	..... to	2.00 to 4.00	2.00 to 4.00
Sweet Peas.....	.50 to .75	..... to .15	.50 to .75	.10 to .20
Mignonette.....	..... to .....	..... to	1.00 to .....	..... to 1.00
Adiantum Cuneatum.....	.50 to 1.00	..... to .....	..... to .....	.75 to 1.00
" Croweatum.....	.75 to 1.00	..... to .....	..... to 1.00	..... to 1.50
Smilax.....	10.00 to 15.00	..... to 12.50	15.00 to	12.00 to 10.00
Asparagus Plumosus, strings.....	25.00 to 30.00	25.00 to 40.00	35.00 to 50.00 to 50.00
" " & Spregeri bunches	25.00 to 30.00	25.00 to 50.00	35.00 to 50.00	20.00 to 35.00

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Cut Flower Market Reports

BOSTON The usual summer conditions prevail. Demand is very light; both local and out-of-town and outdoor flowers preponderate in all the markets. Recent frequent and heavy rains have damaged the aster and sweet pea crop now being cut. The quantity of both of these being received is far beyond the requirements and much of the stock fails to find a buyer. Fancy asters are not yet in evidence.

BUFFALO Business is at a standstill. Stock of all seasonable flowers is overflowing and prices are only nominal. Nothing of any importance is going on in the cut flower trade.

CHICAGO Trade very quiet on all sides. White stock generally is improving. A few good carnations find their way in and are soon disposed of. Asters and gladioli, although overplentiful, are still in the running. Liberty and Richmond roses are improving in color. Beauties are doing better, both in quality and sale.

COLUMBUS The past week has been a satisfactory one for mid-summer; in fact, all seem to agree that every week is showing a good advance over the corresponding week a year ago. July shows the best business in years. One prominent florist explains this, from the fact that more good stock is now carried daily—in other words, you cannot sell what you do not have and large stocks mean many customers. Asters are in large supply; other items about as last week. Pink roses are coming better; gladioli are fine, and sweet peas about gone.

LOUISVILLE Business conditions the previous week improved, and stock in general was obtainable in satisfactory quantities. Carnations of good quality are almost impossible to get, and the demand is small. Roses of some varieties are very good, and are to be had in great quantities. There is an abundant supply of asters, hydrangeas, phlox, etc., with a steady call.

NEW YORK Dull times on all sides. Quiet reigns in the retail stores and one wonders what becomes of the wagonloads that are unloaded every morning in the wholesale district. Lots and lots of asters, gladioli and mildewed roses go to grace the ash cart, that's certain. A good many dahlias are already coming in. Carnations are poor and there is a quantity of small lily of the valley in evidence which does not bring the cost of the pips. All roses are abundant, a large proportion of them being mere rags when received and practically useless.

PHILADELPHIA Business last week very flat. Asters plentiful and sales poor. Up to this point the market for asters was excellent. The glut in the latter affected Brides and Bridesmaids and created a very unsatisfactory situation. Beauties and Liberties were not affected so much and Killarney was also a fair seller. But the summer standby (Kaiserin) suffered although there was some very good stock of this coming in. Lily of the valley is in very fair shape and in good demand. Gladioli move fairly well, especially the light colors. Sweet

peas are about done and there are very few orchids about. There are a few longiflorums still coming in and an occasional shipment of auratum. Hardy phloxes are plentiful but there is not much demand. Golden Glow Rudbeckia also plentiful and good; but goes slow. Carnations can scarcely be called a factor in the market at present. What few there are cause a smile.

SAN FRANCISCO Observation has been exceptionally diversified this week as to trade conditions. In the metropolis of the Coast the past week a midsummer quietness in flower traffic has been of remarkable dullness, while on the east side of the bay in the cities of Berkeley, Oakland and Alameda the cut flower business has been unusually active, one Oakland florist of prominence reporting the week's business fully up to the very busy school-closing season in June. Flowers of all sorts, barring American Beauties, were plentiful and the East Side florists worked off daily all their supplies.

Mr. W. H. Adsett, London correspondent of HORTICULTURE has been appointed Honorable Secretary of the National Potato Society in England.



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	Last Half of Week ending Aug. 4 1906	First Half of Week beginning Aug. 6 1906		Last Half of Week ending Aug. 4 1906	First Half of Week beginning Aug. 6 1906
Roses			Carnations, Fancy	1.00 to 2.00	1.00 to 2.00
Am. Beauty and Edgeley fan and sp. extra.....	20.00 to 25.00	20.00 to 25.00	Carnations, Ordinary.....	.50 to .75	.50 to .75
" No. 1.....	8.00 to 12.00	8.00 to 12.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
" Lower grades.....	4.00 to 6.00	4.00 to 6.00	Lilies	8.00 to 10.00	8.00 to 10.00
Bride & 'Maid, fan and sp. Ordinary.....	1.00 to 2.00	1.00 to 2.00	Gladioli.....	.50 to 2.00	.50 to 2.00
Golden Gate, fancy, ordinary.....	2.00 to 4.00	2.00 to 4.00	Asters.....	.15 to 1.00	.15 to 1.00
Liberty, fancy, ordinary.....	.25 to 1.00	.25 to 1.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Richmond, fancy, ordinary.....	3.00 to 6.00	3.00 to 6.00	Sweet Peas, bunches	1.00 to 4.00	1.00 to 4.00
Kaiserin, Carnot, Chateau, fancy, ordinary.....	.25 to 2.00	.25 to 2.00	Mignonette.....	..... to .50	..... to .50
			Adiantum Cuneatum.....	.25 to .50	.25 to .50
			" Croweaoum	1.00 to 1.50	1.00 to 1.50
			Smilax	6.00 to 8.00	6.00 to 8.00
			Asparagus Plumosus	10.00 to 25.00	10.00 to 25.00
			" " & Sprenger, bunches	15.00 to 35.00	15.00 to 35.00

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WHOLESALE FLOWER MARKETS.

PER 100.
TO DEALERS ONLY.

	CINCINNATI August 7	DETROIT August 6	BUFFALO August 7	PITTSBURG July 31
ROSES				
Am. Beauty and Edgely, fao and sp.	20.00 to 25.00	15.00 to 25.00	20.00 to 25.00	20.00 to 25.00
" extra.....	15.00 to 20.00	10.00 to 15.00	12.00 to 20.00	12.50 to 15.00
" No. 1.....	8.00 to 12.00	6.00 to 8.00	6.00 to 12.00	8.00 to 10.00
" Lower grades.....	4.00 to 6.00	3.00 to 6.00	3.00 to 6.00	3.00 to 5.00
Bride & 'Maid—Fan, and Sp.....	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00
" Ordinary.....	3.00 to 4.00	2.00 to 4.00	4.00 to 5.00	4.00 to 5.00
Golden Gate, Fancy.....	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00
" Ordinary.....	3.00 to 4.00	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Liberty, fancy.....	5.00 to 6.00	5.00 to 6.00	5.00 to 7.00	5.00 to 6.00
" Ordinary.....	3.00 to 4.00	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Richmond, Fancy.....	5.00 to 6.00	5.00 to 6.00	6.00 to 7.00	6.00 to 7.00
" Ordinary.....	3.00 to 4.00	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Kaiserin, Carnot, Chateau, Fancy.....	5.00 to 6.00	5.00 to 6.00	6.00 to 7.00	6.00 to 7.00
" Ordinary.....	3.00 to 4.00	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00
CARNATIONS				
Fancy.....	1.50 to 2.00	.50 to 1.00	1.50 to 2.00	1.50 to 2.00
Ordinary.....	.75 to 1.00	..... to .50	.50 to 1.00	..... to 1.00
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to 100.00	..... to .....	..... to
Lilies.....	10.00 to 12.00	10.00 to 15.00	3.00 to 15.00	12.50 to 13.00
Gladioli.....	..... to	4.00 to 6.00	..... to	3.00 to 6.00
Asters.....	1.00 to 2.00	.50 to .75	1.00 to 2.00	.50 to 2.00
Lily of the Valley.....	3.00 to 4.50	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Sweet Peas.....	.20 to .35	.25 to .35	.15 to .25	.10 to .40
Mignonette.....	..... to .....	..... to	1.00 to 1.50	..... to
Adiantum Cuneatum.....	..... to 1.00	..... to .....	.50 to 1.00	..... to
" Croweanum.....	..... to .....	..... to	1.00 to 1.50	1.25 to 1.50
Smilax.....	10.00 to 12.50	..... to 12.50	..... to 15.00	10.00 to 12.50
Asparagus Plumosus, strings.....	4.00 to 50.00	25.00 to 50.00	25.00 to 35.00	25.00 to 40.00
" " & Sprenger, bunches..... to 55.00	25.00 to 35.00	25.00 to 35.00	35.00 to 40.00

Geo. A. Sutherland Co.

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Florists' Supplies and Letters

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and Ready Reference Guide. You will
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For page see List of Advertisers.

Joseph Breck & Sons, 51 and 52 N. Market St., Boston.
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ARAUCARIAS.

Godfrey Aschmann, 1012 Ontario St., Philadelphia.
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ASPARAGUS.

A. M. Herr, Lancaster, Pa.
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Yalaha Conservatory, Yalaha, Fla.
Asparagus Plumosa Nana and Sprengeri.
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Asparagus Plumosa, 2 in. pots. Blue plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Elliott St., Buffalo, N. Y.

BAMBOO STAKES.

Yokohama Nurseries, 31 Barclay St., N. Y.
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BAY TREES.

Julius Roehrs Co., Rutherford, N. J.
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BEGONIAS.

S. S. Skidelsky, Philadelphia, Pa.
Begonia Gloire De Lorraine.
J. A. Peterson, McHenry Ave., Westwood, Cincinnati, O.
Begonias Lorraine, Turnford Hall.

BOX TREES.

Julius Roehrs Co., Rutherford, N. J.
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BULBS AND TUBERS.

Joseph Breck & Sons, 47-54 N. Market St., Boston.
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J. M. Thorburn & Co., 33 Barclay St., New York.
Lily Bulbs.
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Yokohama Nurseries, 31 Barclay St., N. Y.
Lily Bulbs.
For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y.
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CANE STAKES.

Wm. Elliott & Sons, New York.
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CARNATIONS.

E. H. Pye, Upper Nyack, N. Y.
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Chicago Carnation Co., Joliet, Ill.
Field Grown Plants.
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Guttman & Weber, New York.
Carnation Victory.
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CEMENT BENCHES.

W. F. Kasting, Buffalo, N. Y.
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CHRYSANTHEMUMS WANTED.

F. E. Palmer, Brookline, Mass.
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CONIFERS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.
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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

CYCAS STEMS.

J. M. Thorburn & Co., 33 Barclay St., N. Y.
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CYCLAMENS.

H. A. Dreer, 714 Chestnut St., Phila.

DAHLIAS.

David Herbert & Son, Atco, N. J.
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DECORATIVE PLANTS.

A. Leuthy & Co., Roslindale, Mass.
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Julius Roehrs, Rutherford, N. J.
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Wm. W. Edgar Co., Waverley, Mass.

DRACAENAS.

A. Leuthy & Co., Roslindale, Mass.
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FERNS.

A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Sons, Whitman, Mass.
Nephrolepis Whitmanii.
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Wm. W. Edgar Co., Waverley, Mass.

S. S. Skidelsky, 824 N. 24th St., Phila.
Whitmanii Fern.
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H. N. Eaton, So. Sudbury, Mass.
Boston Ferns.
For page see List of Advertisers.

M. Hutchison & Co., 17 Murray St., N. Y.
Ferns in Flats.

FLORAL PHOTOGRAPHS.

Floral Photographs, Foley's 226-228 12 Bowery, New York.

FLORISTS' FERTILIZER.

A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For bushes and potted plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address J. W. Barwell, Blatchford's Calf Meal, Animal and Poultry Foods, Fertilizers, Karbo Dip, Seeds, etc., Waukegan, Ill. Established at Leicester, England, in 1860.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston, Mass.
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?

Is Your Name In The Above List? If Not, Why Not?

?

FLORISTS' SUPPLIES—Continued.

- H. Eayersdorfer & Co., Philadelphia, Pa.
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- The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
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- N. F. McCarthy & Co., 84 Hawley St.,
Boston, Mass.
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- Reed & Keller, 122 W. 25th St., New York.
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- J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.
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- S. S. Pennock, Philadelphia.
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- J. Stern & C., 1928 Germantown Ave.,
Philadelphia.
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FLOWERS BY TELEGRAPH.

- Alex. McConnell, New York.
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- Fred C. Weber, 4326-28 Olive St.,
St. Louis, Mo.
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- J. Brettmeyer's Sons, Miami & Gratiot
Aves., Detroit, Mich.
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- Thos. Young, Jr., 41 W. 28th St., New York.
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- Eyres, 11 N. Pearl St., Albany, N. Y.
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- George H. Cooke, Washington, D. C.
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- Gude Bros. Co., 1214 F St.,
Washington, D. C.
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- Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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FLOWER POTS.

- W. H. Ernest, 28th and M Sts.,
Washington, D. C.
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- A. H. Hews & Co., Cambridge, Mass.
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- Hilfinger Bros., Ft. Edward, N. Y.
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GALAX.

- H. M. Robinson & Co., 8-11 Province St.,
Boston.
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- Michigan Cut Flower Co., Detroit.
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GERANIUMS.

- A. M. Herr, Lancaster, Pa.
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GLADIOLI.

- Arthur Cowee, Meadowvale Farm, Berlin,
N. Y.
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- John Lewis Childs, Floral Park, N. Y.
Gladiolus Blooms.
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GLASS.

- Boston Plate & Window Glass Co., Boston.
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- Glass, French and American "White
Rose" brand, Stenzel Glass Co., 2 Hud-
son St., New York.

GLAZING POINT.

- H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

- Lord & Burnham Co.,
1133 Broadway, New York.
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- Pierson U-Bar Co., 1 Madison Square,
New York.
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- Hitchings & Co., 1170 Broadway,
New York.
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GREENHOUSE BUILDING MATERIAL—Continued.

- A. T. Stearns Lumber Co., Neponset, Boston.
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- King Construction Co., N. Tonawanda, N. Y.
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- J. C. Moulner Co., 117 East Blackhawk St.,
Chicago, Ill.
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- Weathered Co., Box 789, New York.
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- Foley Mfg. Co., 471 W. 22nd St., Chicago.
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- Chas. H. Manley, Premier Mfg. Works,
St. Johns, Mich.
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HARDY FERNS AND SUPPLIES.

- H. M. Robinson & Co., 8-11 Province St.,
Boston, Mass.
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- The Kervan Co.,
20 W. 27th St., New York.
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- Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dillger, Mgr.
Fancy Ferns.
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- E. A. Heaven, Evergreen, Ala.
Fadefless Sheet Moss: Lyrata.
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HARDY PERENNIALS.

- M. H. Walsh, Woods Hole, Mass.
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- Wm. W. Edgar Co., Waverley, Mass.

HEATING APPARATUS.

- Lord & Burnham Co.,
1133 Broadway, New York.
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- Pierson U-Bar Co., 1 Madison Square,
New York.
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- Hitchings & Co., 1170 Broadway,
New York.
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- John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
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- Gurney Heater Mfg. Co., 188-200 Franklin
St., Cor. Pearl, Boston, Mass.
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- Kroeschell Bros., 35 Erie St., Chicago.
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HOT-BED SASH.

- The A. T. Stearns Lumber Co., Neponset,
Mass.
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- Hitchings & Co., 1170 Broadway, N. Y.
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- Lord & Burnham Co., 1133 Broadway, N. Y.
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HOTHOUSE GRAPE VINES.

- Rose Hill Nurseries, New Rochelle, N. Y.

HYDRANGEAS.

- F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
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INSECTICIDES.

- Hammond's Paint & S. S. Works, Fishkill,
N. Y.
Hortleum.
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JAPANESE PLANTS.

- Yokohama Nurseries, 31 Barclay St., N. Y.
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KENTIAS.

- Godfrey Aschmann, 1012 Ontario St.,
Philadelphia.
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KOSTER'S BLUE SPRUCE.

- J. H. Troy, New Rochelle, N. Y.
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LANDSCAPE ARTIST.

- William Plumb, 1133 Broadway, New York
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LEADING RETAIL FLORISTS.

- Alex. McConnell, New York
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- Thomas Young, Jr., New York.
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- Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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- J. Brettmeyer's Sons, Detroit, Mich.
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- George H. Cooke, Washington, D. C.
For page see List of Advertisers.
- Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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- Gude Bros. Co., 1214 F St.,
Washington, D. C.
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- Eyres, 11 N. Pearl St., Albany, N. Y.
For page see List of Advertisers.
- Mills, the Florist, Jacksonville, Fla.
Telegraph mail orders promptly filled.
Long distance telephone
connections.

LILIUM HARRISII.

- E. R. Pierson Co., Tarrytown-on-Hudson,
N. Y.
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MASTICA.

- E. O. Pierce Co., 170 Fulton St., New
York.
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- Joseph Brock & Sons, 47-51 N. Market St.,
Boston.
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MUSHROOM SPAWN.

- Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
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- Johnson Seed Co., 217 Market St., Phila.
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NARCISSI.

- Warnaar & Co., Sassenheim, Holland.
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NURSERY STOCK.

- John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England
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ORCHID PLANTS.

- Lager & Hurrell, Summit, N. J.
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- Sander, St. Albans, England,
Importers, Exporters, Growers, Hybridists.
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- Julius Roehrs Co., Rutherford, N. J.
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- Carrillo & Baldwin, Secaucus, N. J.
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PALMS.

- A. Lenthy & Co., Roslindale, Mass.
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PANDANUS VEITCHII.

- J. A. Peterson, McHenry Ave., Westwood,
Cincinnati, O.

PANSY SEED.

- Johnson Seed Company, Philadelphia, Pa.
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- H. F. Mitchell Co., 1018 Market St., Phila.
Pansy and Cyclamen Seed.
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- Augustus Zingibell, Needham, Mass.
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PATENTS.

- Sliggers & Sliggers, Washington, D. C.
Patents, Trade Marks, and Copyrights
25 years' active practice.
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PEONIES.

- Gilbert H. Wild, Sarcoxie, Mo.
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- Warnaar & Co., Sassenheim, Holland.
For page see List of Advertisers.
- Fine collection of Best Peonies. Com-
plete Pruning and Phlox Manuals, 25 cents
each. C. S. Harrison's Select Nursery,
York, Nebr.

POT HANGERS.

- Pot hangers, Kramer's \$1 doz. by exp.
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PRIMULAS.

Primula Obo. Grandiflora. 4 in. pots
\$6 per 100. Cash, please. A. Relyea & Son,
Poughkeepsie, N. Y.

PUTTY.

Benj. Hammond, Fishkill on Hudson, N. Y.
Twemlow's Old English Glazing Putty.
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RHODODENDRONS.

John Waterer & Sons, Ltd., American
Nursery, Bagshot, Eng.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pye, Upper Nyack, N. Y.
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Rose Hill Nurseries, New Rochelle, N. Y.
Roses, Killarney.

Lawrence Cotter, Castle Grove Green-
houses, Danville, Pa.
Am. Beauty, Bride, Bridesmaid Plants.
For page see List of Advertisers.

American Beauties, 2-in., \$55.00; 3-in.,
\$80.00 1000. Cash. J. Henry Bartram,
Lansdowne, Pa.

Roses. Baby Rambler, the strongest dor-
mant stock in the country, \$25.00 per 100;
2 1-2 in. pot plants, \$7.00 per 100, \$65.00
per 1000. Brown Bros. Co., Rochester,
N. Y.

1000 plants grafted Maids, 3 inch pots,
fine stock, 2000 plants Richmond, own
roots, 3 inch pots, very fine plants. Price
\$10.00 per hundred, while they last. Cash
with order. Robert Simpson, Clifton, N. J.

SEEDS.

T. J. Grey & Co., 32 So. Market St.
Boston, Mass.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co.,
33 Barclay St., New York.
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H. F. Michell Co., 1018 Market St.,
Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
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A. T. Boddington, 342 W. 14th St., N. Y.
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James Vlek's Sons, Rochester, N. Y.
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W. W. Rawson & Co., 5 Union St., Boston.
Vegetable Seeds
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Aut. C. Zvolanek, Bound Brook, N. J.
Christmas Flowering Sweet Pea Seed.
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Conrad Appel, Darmstadt, Germany, Es-
ab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O.
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SIEVES AND SCREENS.

Hub Wire Works, 13 Devonshire St., Boston.
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SMILAX.

J. C. Schmidt Co., Bristol, Pa.
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SPHAGNUM MOSS.

C. W. Brownell & Co., Walden, N. Y.
Peat, Moss and Silver Sand
For page see List of Advertisers.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

SPIRAEA.

Warmar & Co., Sassenheim, Holland.
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STEAM TRAP.

E. Hippard, Youngstown, O.

STRAWBERRY PLANTS.

Wilfrid Wheeler, Concord, Mass.
Pot Grown.
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VEGETABLE PLANTS.

Plainfield Nursery, Plainfield, Ind.
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VENTILATING APPARATUS.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
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Weathered Co., 46 and 48 Marlon St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.
J. C. Mooninger Co., 421 Hawthorne Ave.,
Chicago.

VIOLETS.

H. R. Carlton, Wiltoughby, O.
Violet, Gov. Herrick.
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J. C. Schmidt Co., Bristol, Pa.
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William Sim, Cliftondale, Mass.
Princess of Wales.
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WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

N. F. McCarthy & Co., 84 Hawley St.,
Boston.
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George A. Sutherland Co., 34 Hawley St.,
Boston.
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Welch Bros., 15 Province St., Boston.
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Buffalo.

Wm. F. Kastling, 383-87 Ellicott St., Buf-
falo, N. Y.
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Chicago.

J. A. Budlong, 37 Randolph St., Chicago.
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Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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Cincinnati.

Ohio Cut Flower Co., 123 E. 3d St.
Wm. Murphy, 123 E. 3d St.

Detroit.

Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Dilger, mgr.
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New York.

Wm. Stuart Allen Co., 53 W. 23th St.,
New York.
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J. S. Fearich, 116 W. 28th St., New York.
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Ford Bros., 48 West 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 West 28th St.
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E. C. Moran, 55 West 28th St., New York.
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Philip F. Kessler, 55 W. 26th St., New
York.
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**WHOLESALE FLORISTS—Continued.
New York.**

Julius Lang, 53 West 30th St., New York.
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A. H. Laugabr, 53 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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Frsok Millang, 55-57 W. 26th St., New
York.
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A. Moltz, 55-57 W. 26th St., New York.
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Perkins & Schumann, 50 W. 28th St., N. Y.
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John I. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Traendly & Schenck, 44 W. 28th St., New
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Hicks & Crawbuck, Inc., 76 and 78 Court
St., Brooklyn, N. Y.
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Philadelphia.

W. E. McKissick, 1221 Filbert St., Phila-
delphia, Pa.
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Leo Niessen Co., 1217 Arch St., Phila-
delphia, Pa.
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S. S. Pennock, 1612-18 Ludlow St., Phila-
delphia, Pa.
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Edward Reid, 1526 Raustead St., Philadel-
phia, Pa.
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Pittsburg.

J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.
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Pittsburg Florists' Exchange, 228 Diamond
St., Pittsburg, Pa.
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New Offers in This Issue.**AUSTRIAN AND SCOTCH PINES.**

The F. E. Conine Nursery Co.,
Stratford, Conn.
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**CARNATION PLANTS FROM
FIELD.**

George E. Buxton, Nashua, N. H.
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**FIELD GROWN CARNATIONS AND
ASPARAGUS.**

H. W. Vose, Hyde Park, Mass.
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**FIELD GROWN CARNATION
PLANTS: FERNS.**

S. S. Pennock, Philadelphia.
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HARDY CUT FERNS.

L. B. Bague, Hinsdale, Mass.
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HERBACEOUS PEONIES.

H. A. Dreer, Philadelphia.
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**PEONY ROOTS FOR SEPTEMBER
DELIVERY.**

Bobbink & Atkins, Rutherford, N. J.
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POINSETTIAS.

S. N. Pentecost, Cleveland, O.
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PRIZE-WINNER PANSIES.

Johnson Seed Co.,
217 Market St., Phila., Pa.
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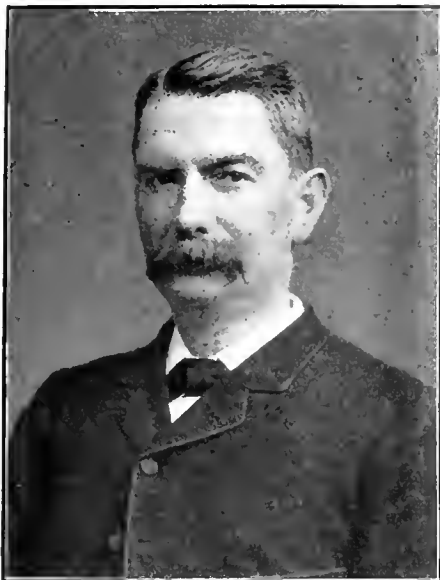
SWEET PEAS.

W. Atlee Burpee & Co., Philadelphia.
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OBITUARY.

James Weir, Jr.

This well-known and prosperous florist of Brooklyn, N. Y., died suddenly on board his yacht while racing in Peconic Bay on Wednesday, August 1. Mr. Weir was the senior partner in the firm of James Weir, Jr., & Son. He was born in England, October 17, 1843, and came to Brooklyn with his parents when he was a year old. His father, James Weir, was one of the



pioneer florists of Brooklyn. Deceased was prominent in yachting circles and also in politics, being especially interested in public educational work. He was popular socially and highly esteemed by a large circle of friends. He leaves a wife, three daughters and one son, the latter, together with his brothers John and Fred, being associated with him in the business.

Alexander Emslie.

Alexander Emslie, for the past six years engaged in the florist business in Barre and Montpelier, Vt., passed away on August 1. Mr. Emslie was born in Aberdeen, Scotland, 38 years ago, but came to this country when a young man. He has built up an extensive business through his industry and honesty. His brothers, George and William, will carry on the Barre greenhouse. The Montpelier business was purchased by Alexander Broadfoot recently.

James N. Bishop.

James N. Bishop, a botanist well known in New England, died at Farmington, Me., on July 29. He was born in Plainville, Conn., in 1851. A widow, three sons and two daughters survive him.

The seventy-fifth fair of the American Institute of the city of New York will be held in the Berkeley Lyceum Building, September 25 to 27. The schedule of prizes can be obtained from Dr. F. M. Haxamer, Chairman, 19 and 21 West 44th street, New York N. Y.

HERBACEOUS PÆONIES



HERBACEOUS PÆONY FESTIVA MAXIMA

We begin harvesting Peonies early in September and will be ready to execute all orders by the middle of the month. If you are interested in this class of stock and have not received our special offer with interesting prices we shall be pleased to mail a copy on application.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.

PHILADELPHIA NOTES.

Abram S. Pennock, who has been wintering in Florida, arrived in town last week. After a short stay in his favorite Lansdowne he will join his people at Ocean City for a few weeks.

The Johnson Seed Co., in addition to the new electric elevator and other interior store improvements, are putting in an entire new front to their building at 217 Market St., a new staircase to the offices on the second floor and new shelving.

New crop crimson clover and the early shipments of freesia, Harris and French bulbs are arriving. Business here is unusually brisk for August.

Ralph Shrigley, late salesman for S. S. Pennock, is now with the Leo Niessen Co. Mr. Shrigley was one of the most popular of the old Pennock boys and his hosts of friends wish him every success in his new location.

A good delegation of Philadelphians will go to Dayton, according to present indications. Messrs. Bayersdorfer, Pennock, Craig, Dreer, Michell, Ball, Harris and other prominent houses doing a continental trade will have their usual display of staple goods and novelties with ample help to take care of same, and the wide-awake commission men, growers, retailers, and seedsmen will also be there in good force to show that Philadelphia still cuts some ice in the horticultural world, no matter who is president or secretary or treasurer.

SAN FRANCISCO NOTES.

There was a largely attended free floral feast all the week in San Francisco, a begonia display by the John H. Sievers Company, given in a 150 feet long conservatory at their Van Ness avenue nursery adjoining the floral store of Sievers & Boland. There were tens of thousands of these beautiful flowers, the richest strains of tuberous-rooted begonia blooms the company ever grew, and because of the late catastrophe there will be no market for nine-tenths of them.

CATALOGUES RECEIVED.

Arthur T. Boddington, New York City, 1906 summer and autumn Florists' Bulbs for forcing and planting. Has the Seal of Quality.

In the group of illustrations of the games at the Boston club picnic the titles on the sack race and the 100 yard dash were inadvertently transposed in last week's issue.

PEONIES.

Queen Victoria (the cold storage flower) \$9.00 per 100. Festiva Maxima \$ 8.00 per 100. Fragrans (the bloom producer) \$6.00 per 100. For the latest rates or other varieties, write

GILBERT H. WILD,
SARGOXIE, MO.

POT MAKERS FOR 140 YEARS
A. H. HEWS & Co. Inc. CAMBRIDGE, MASS.
 WARE OF EVERY KIND FLORESTI

WANTS, FOR SALE, ETC.
 Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR SALE CHEAP—Two Greenhouses, nearly new, to be taken down and re-moved. For particulars address W. C. Merritt, Washingtonville, N. Y.

FOR SALE—Five greenhouses containing 5,000 feet of glass, hot water heat. Town water. One acre of land 10 minutes' walk from depot; 1 minute from electric. Near churches, stores and schools. For particulars write A. P. Belcher, Foxboro, Mass.

FOR SALE OR RENT—Place established twenty years, good local trade; no competition; town six thousand inhabitants. One acre land greenhouses covering seven thousand feet, with or without stock; 75 sashes, 3½" Houses heated by two No. 7 Furman steam boilers. A. S. Lamb, Whitcombton, Mass.

SITUATION WANTED—As private gardener on place where there is a range of greenhouses. Best of references. Over 7 years in last place. Expert rose grower. Married. Address J. J., care HORTICULTURE.

WANTED—Young man, 22 to 26, to work in greenhouses; \$35.00 per month. Reply to E. D. B., Office of HORTICULTURE.

WANTED—Young, single man for fruit range, Palms and Violet Houses. Wages \$50.00. Reply to E. J. C., Office of HORTICULTURE.

WANTED—Young single man for Greenhouse, who understands grapes. Wages \$35.00 and board. Reply to R. M. C., Office of HORTICULTURE.

WANTED—Assistant for rose houses, with one or two years' experience. Robert Miller, rose grower, East Brookfield, Mass.

INCORPORATED.

Central Park Floral Co., Incorporators: J. A. Gochle, Henry Hart, C. C. Hamocher, Buffalo, N. Y. Capital, \$2,000.

The Munson-Whitaker Co., of Boston, to do a landscape gardening business. Incorporators, C. L. Whitaker, J. E. Whitaker, W. A. Munson. Capital, \$25,000.

The Bay State Nursery Company, N. Abington, Mass., is arranging for the construction of a large cold storage cellar, which will be 127 feet long and 45 feet wide.

WEATHERED COMPANY

BOX 789, NEW YORK

GREENHOUSE BUILDING AND HEATING

Send for Catalogue.

SEND FOR CATALOGUE OF SCOLLAY HOT WATER and STEAM BOILERS

JOHN A. SCOLLAY

73 and 75 Myrtle Avenue

BOROUGH OF BROOKLYN, N. Y. CITY

GREENHOUSES BUILDING AND PROJECTED.
 New Concerns.

Arrowsmith, Ill.—S. E. Lawrence, one house.

Fairfield, Conn.—George N. Smith, carnation house.

Livermore Falls, Me.—George H. Fuller, one house 75x100.

Additions.

Pittsfield, Mass.—A. J. Loder, one house.

Norwalk, Conn.—R. G. Hanford, one house.

Newton, Mass.—Arthur Fewkes, one house.

N. Abington, Mass.—One house, 33x200.

E. Norwalk, Conn.—R. E. Morrison, one house.

Athol, Mass.—George W. Sutherland, violet house.

Des Moines, Ia.—Iowa Seed Co., range of houses, each 180 feet long.

The Pierson U Bar Company has recently closed contracts for greenhouses as follows:

Princeton, N. J.—M. Taylor Pyne, a new range.

West Hampton, L. I.—W. C. Atwater, a new range.

Irrington, N. Y.—W. R. Harris, a new range.

Parkersburg, W. Va.—J. W. Dudley, adding one house.

Irrington, N. Y.—Isaac N. Seligman, adding one house.

NEWS NOTES.

F. C. Bartels, for many years connected with the Gasser Co., of Cleveland, O., has started in business for himself at North Olmsted and will make a specialty of growing carnations for the Cleveland market.

The "black rot" and the gall fly are making havoc with the violet plants at Rhinebeck. Some growers have already lost half or three-quarters of their entire stock through the black rot, for which they seem to have no remedy. It will probably drive some of the least capable growers out of the business.

On the morning of August 3d a fire broke out in one of the barns belonging to John Breitmeyer's Sons at Mt. Clemens, Mich., and gained such headway before it was discovered that it was impossible to save anything of value. Four horses were burned to death. At present writing the origin of the fire is unknown.

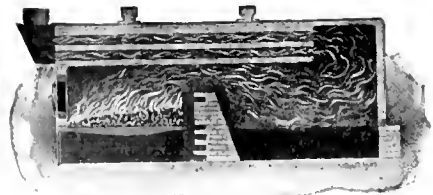
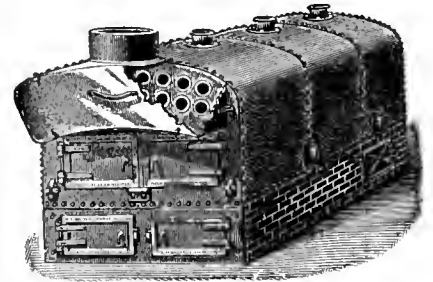
An effort is being made to introduce agriculture and forestry in all normal schools of the State of Maine, a start having been made at the Castine and Gorham schools. Small tree nurseries are to be established at each of the normal schools. The Maine University will offer reading courses and correspondence courses in agriculture and allied topics.

Kroeschell Bros. Co.

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Greenhouse Boiler,

35 Erie Street, CHICAGO.



Boilers made of the best material; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.




BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.



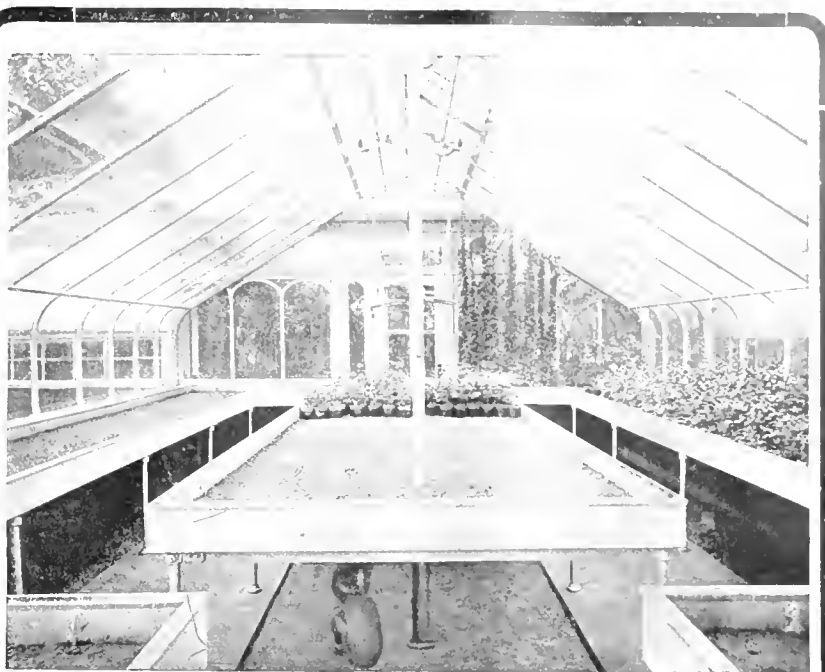
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MATERIAL**
IS THE BEST.
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- CHICAGO -
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" "
**VENTILATING
APPARATUS,
FITTINGS
HOT-BED SASH.**
WE MAKE SKETCHES
AND ESTIMATES-

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.
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**GREENHOUSE CONSTRUCTION
LUMBER**

John C. Moninger Co.
117 E. Blackhawk St., CHICAGO

**NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL.** For particulars address
John G. Esler, Saddle River, N. J.



EQUIPMENT

We are in business to sell U-Bar Greenhouses, but we also equip them with boilers, ventilating apparatus and plant benches of the latest and most approved kinds. The ventilating apparatus is self-oiling, runs like a top and no unsightly oil running down the operating rod either.

**U-BAR GREENHOUSES
Are the Best Greenhouses Built**

because they are the best equipped, grow the best plants, and are the most enduring.

WE ARE THE OLD MAKERS OF
U-BAR GREENHOUSES

PIERSON U-BAR COMPANY
Designers and Builders
U-BAR GREENHOUSES
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FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
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Built under the PULT PATENTS

Orders taken now
Send exact dimension of bench you want to rebuild, or put in new house. Let us figure then what we can furnish you the bench at. A cement bench lasts a life time, constructed so that it can be moved at any time and anywhere. All work guaranteed.

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383-387 Ellicott St., Buffalo, N. Y.

H AND C

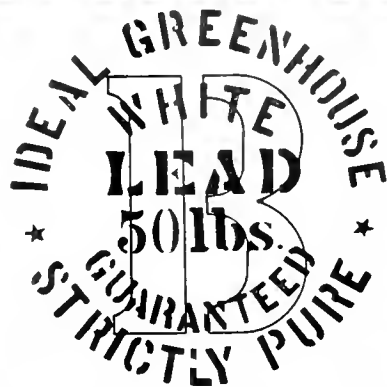
Your Grandmothers

didn't like sewing machines. Your grandfathers thought railroads should be suppressed, but on they came, and came to stay. It's the same with the Iron Frame Greenhouse—it has come to stay, because it is the greatest producer and most economical to run. We build sash bar houses, but we believe thoroughly in our Iron Frame House.

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H AND C



THE "STAY PUT" PAINT

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Send for the "Stay Put" Book-let if you want a straight paint talk, straight from the shoulder.

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Boston Branch: 819 Tremont Building



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For Glazing Greenhouses

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We have on hand large quantities of Orchid Peat, Rotted Peat, Azalea Peat, Leaf-Mould, Live Sphagnum Moss for Orchids, Silver Sand, Green Clump Moss, etc. Also Baled Moss for Design Work and Nursery; 5 and 10 Bbl. Bales. Secure the best at the lowest prices. Samples gratis. Jobbers' list on application.

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STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots 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. pots in crate	\$3.60
800 3 1/2 " " "	5.80	48 10 " " "	4.80
500 4 " " "	4.50	24 11 " " "	3.60
320 5 " " "	4.50	24 12 " " "	4.80
144 6 " " "	1.16	12 14 " " "	4.80
		6 16 " " "	4.50

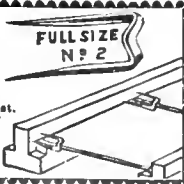
Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N.Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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See the Point **AT PEERLESS**

FULL SIZE
NO. 2

Glazing Points are the best. No rights or 10ths. Box of 1,000 points 15 cts. postpaid.

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714 Chestnut St., Phila., Pa.



In a Premier Greenhouse—

all good points are combined. There's durability, artistic appearance, ease of erection — and — ease of RE-erection.

It's a better house than is usually built; the price is ONE THIRD of that usually charged.

Send for booklet No. G-48.

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Standard Flower.. POTS

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

W. H. ERNEST,

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

HORTICULTURE

Vol. IV.

AUGUST 18, 1906

No. 7



IRIS KAMPFERI

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
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CATTELYA GIGAS

WE are headquarters for ORCHIDS. We collect, import, grow and sell them **EXCLUSIVELY**. Our prices are moderate and quality of stock **A 1**. Write us for prices on imported or established stock before investing elsewhere—we can save you money. The following Orchids will **PAY** you to grow:

Calanthe Veitchii	Cattleya Trianae	Lycaste Skinnerii
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“ Eldorado	Coelogyne cristata	Odontoglossum grande
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“ gigas	“ Lowianum	“ flexuosum
“ grannulosa	Dendrobium Bensoniae	“ incurvum
“ Harrisoniae	“ densiflorum	“ ornithorhynchum
“ labiata	“ formosum	“ splendidum
“ Mendelii	“ nobile	“ tigrinum
“ Mossiae	“ Phalaenopsis Schroederianum	“ varicosum Rogersii
“ Percivalliana	“ Wardianum	Phalaenopsis amabilis
“ Schroederiae	Epidendrum vittelinum	Vanda coerulea
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“ speciosissima	“ anceps	Cypripediums in var. and many more
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Large assortment of freshly imported Orchids on hand

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Also Supplies such as Orchid Peat and Live Sphagnum Moss, Orchid Baskets, etc.

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Farquhar's Famous Cyclamen

The Finest Crown

Farquhar's Giant White
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 And twelve others
 Farquhar's Columbian Prize Mixed

Per 1000 Seeds \$10. Per 100 Seeds \$1.25. Per pkt. 75c.

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The kind and quality that need no long arguments to demonstrate their merits.

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The most remarkable and universally useful fern ever introduced to the Florists of America.



This fern, which originated with the Messrs. Barrows, and is now being disseminated by them from their greenhouses at Whitman, Mass., is by far the best of all the forms of *Nephrolepis*. It is equally symmetrical whether in large or small specimens, has never been known to revert and as a window plant will remain in perfect condition longer than any other fern.

ORDERS FILLED STRICTLY IN ROTATION.

Plants in 2 1-2 inch pots, \$25 per 100; \$200 per 1000. In 5 inch pots, \$1 each; 6 inch, \$1.50 each; 8 inch, \$5.

H. H. BARROWS & SON
WHITMAN, MASS.

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HARDY HERBACEOUS PLANTS

Do not compare our Herbaceous Plants with the stock usually offered. They are all strong, field-grown plants, and such as will give you satisfaction and flower this season.

	Doz.	100		Doz.	100		Doz.	100
Acanthus mollis.....	\$1.25		Gillenia trifoliata.....	1.00	8.00	Pyrethrum, single mixed.....	.75	6.00
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Achillea, The Pearl.....	.60	\$4.00	Helenium grandicephalum striatum.....	1.00	8.00	Ranunculus acris fl. pl.....	1.00	8.00
Achillea millefolium roseum.....	\$.75	\$6.00	Helenium Hoopesii.....	1.00	8.00	Ranunculus acris fl. pl.....	.75	6.00
Achillea tomentosa.....	.75	6.00	Helenium magnificum pumilum.....	1.00	8.00	Ranunculus repens.....	1.00	8.00
Achusa Barrelieri.....	1.00	8.00	Hemerocallis aurantiaca major, each 35 cents.....	3.50	25.00	Rudbeckia laciniata Golden Glow.....	.60	5.00
Achusa Italica.....	.75	6.00	Hemerocallis Dumortieri.....	.75	6.00	Rudbeckia Newmanii.....	.75	6.00
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Adonis Pyrenaea.....	1.25	10.00	Hemerocallis Thunbergii.....	.75	6.00	Salvia officinalis.....	.75	6.00
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Ajuga reptans.....	.75	6.00	Heuchera alba.....	1.00	8.00	Saxifraga canadensis.....	.60	5.00
Alyssum saxatile compactum.....	.75	6.00	Heuchera sanguinea.....	1.00	8.00	Saxifraga cordifolia (Megasec.).....	.75	6.00
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Anemone Japonica alba.....	.75	6.00	Hieracium aurantiacum.....	.75	6.00	Spiraea Aruncus Kneifli, each 35 cents.....	3.50	25.00
Anemone Japonica Queen Charlotte.....	.75	6.00	Hieracium autumnale superba.....	.75	6.00	Spiraea filipendula fl. pl.....	.75	6.00
Anemone Japonica Whirlwind.....	.75	6.00	Heliopsis multiflora.....	.75	6.00	Spiraea palmata.....	.75	6.00
Anemone tinctoria Kelwayi.....	.75	6.00	Heliopsis Scitellaria.....	.75	6.00	Spiraea palmata alba.....	1.00	8.00
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Aquilegia Canadensis.....	.75	6.00	Hepatica angulosa.....	1.15	8.00	Stachys latifolia.....	1.00	8.00
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Aquilegia Skinneri.....	.75	6.00	Iberis Gibraltarica splendens.....	2.00	10.00	Thalictrum aquilegifolium.....	1.00	8.00
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Artemisia Stelleriana.....	.75	6.00	Iris Germanica, 25 named vars.....	.75	6.00	Tiarella cordifolia.....	1.00	8.00
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Asters, in variety.....	1.00	8.00	Lathyrus latifolius.....	.75	6.00	Trientalis hirta.....	1.00	8.00
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Baptisia australis.....	.75	6.00	Liatris spicata.....	.75	6.00	Tritoma corallina.....	1.00	8.00
Betonica rosea superba.....	1.00	8.00	Lobelia cardinalis.....	.75	6.00	Tritoma Pützeri.....	1.00	8.00
Bocconia cordata.....	.75	6.00	Lysimachia clethroides.....	.75	6.00	Tritoma uvaria grandiflora.....	1.00	8.00
Boltonia asteroides.....	.75	6.00	Lupinus polyphyllus.....	1.00	8.00	Trollius, in variety.....	2.00	15.00
Campanula Carpatia.....	1.00	8.00	Lycynis Chalcedonica.....	.75	6.00	Veronica gentianoides.....	1.00	8.00
Campanula Carpatia alba.....	1.00	8.00	Lycynis Chalcedonica alba.....	.75	6.00	Veronica incana.....	.75	6.00
Campanula Medium.....	.75	6.00	Lycynis Haageana hybrida.....	.75	6.00	Veronica longifolia subsessilis.....	1.50	10.00
Caryopteris Mastacanthus (3-in. pots).....	.75	6.00	Lycynis rubra fl. pl.....	2.00	10.00	Veronica repens.....	.75	6.00
Cassia Marylandica.....	.75	6.00	Lycynis Viscaria splendens fl. pl.....	1.00	8.00	Veronica Rupestris.....	1.00	8.00
Centaurea dealbata.....	1.00	8.00	Lysimachia nummularia.....	.65	5.00	Veronica Virginica.....	.75	6.00
Centranthus rubra.....	.75	6.00	Lythrum Japonicum.....	.75	6.00	Veronica spicata.....	1.00	8.00
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Chelone glabra.....	.60	4.00	Malva Moshata.....	.75	6.00	Vinca minor.....	.75	6.00
Chelone Lyoni.....	.75	6.00	Megaseca cordifolia.....	.75	6.00	Vinca filamentosa.....	.75	6.00
Chrysanthemum maximum Robinsonii.....	2.00	15.00	Moranda didyma.....	.75	6.00			
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Clematis coccinea.....	1.00	8.00	Myosotis palustris sempervirens.....	.60	4.00			
Clematis Davidiana.....	.75	6.00	Oenothera fruticosa.....	.75	6.00			
Convallaria majalis (strong clumps).....	2.00	15.00	Oenothera Fraseri.....	.75	6.00			
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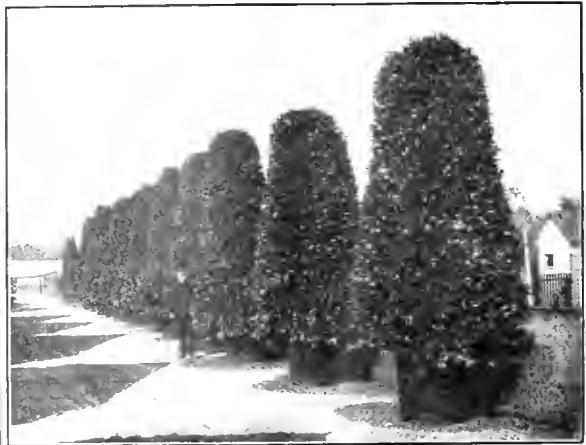
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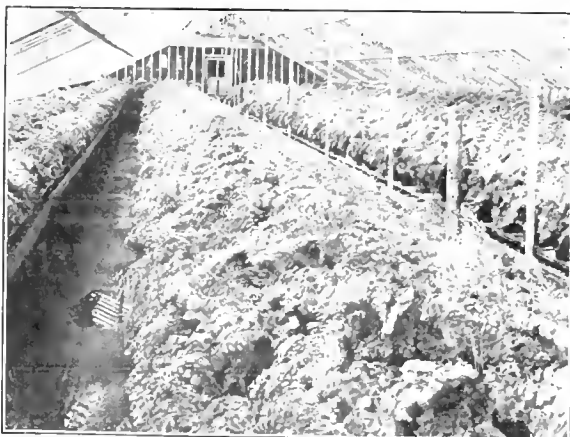
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Random Reflections and Reminiscences

BY UNCLE JOHN THORPE.

The Society of American Florists has broadened out, not as rapidly as its sponsors thought and hoped for, but it has and is broadening. The Horticultural Society of America is the title it ought to bear, but at the time of its birth it was feared by some that it might die under the burden of such a name. It was intended to make it so in fact, if not in name, and I hope in a few years it will be so thoroughly developed in every branch that the Horticultural Society of America will be no misnomer.

The one great disappointment is that we are yet waiting for a permanent home where an experimental garden shall be maintained, where everything practical for the best interest of the society can be developed. It is a burning question as much as it was in 1885. Let the matter be rekindled. I feel it in my bones that with the brilliant members the society has in Washington city that the time has come when they will insist on having a home there. Since 1885 the mother has brought forth several children, the Chrysanthemum, the Carnation, the Rose, and the Peony societies, all of which are healthy and doing well, and have materially strengthened the parent instead of weakening it, as a few have imagined. Whether there are to be any more children remains to be seen. I believe a Phlox society would be one that would become extremely popular and self-supporting. There is no more beautiful summer flowering plant—coming as it does at convention time. More remains to be said on this subject. Four children is a pretty good-sized family. In fact there is proof that there is no race suicide in the S. A. F. family.

In 1885 there were no trade papers, no Florists' Clubs or Gardeners' Associations and only a few Horticultural Societies. Today nearly every city has a live and progressive Florists' Club, and there are many Gardeners' Associations, composed of men who care for and do fill the whole gamut of horticulture. There are no fruits, flowers, or vegetables but what they are capable of turning out in perfection,—and they do it. At the present time nearly all our thorough gardeners have received their education in Europe.

The making of gardeners is one of the most problematical questions which we have to face today, and I believe the Society should take cognizance of it. They must be had and probably they may be had, but where are they to come from, except from European sources? I mean gardeners capable of caring for everything that belongs to a garden—whether indoors or out; gardeners who can properly grow fruit, flowers and vegetables; gardeners who can construct and improve grounds as they should be. These men are not to be found among the manipulators who week in and week out pot ten thousand a day of carnations, geraniums or coleuses—an accomplishment which, however, reflects to their ability; but they are not gardeners. I cannot leave

this subject without referring to the "garden" (whether by mail or by the express route via elevator to the 13th floor) of the so-called landscape artists and horticultural engineers. I see many trotting about with a roll of blue prints or other color plans under their arms and on whose faces there is yet scarcely a sign of the necessity of either scissors or razor. A goodly number of these talk grades, curves, filling, *Berberis Thunbergii*, hardy hydrangea, Carolina poplar, with the ease of a megaphone. May be soon they will fade away. When one reads a course of landscape engineering complete by mail in three months it's no wonder the crop is big! What next and what next?

The trade papers have supported and have in turn been equally well supported in their efforts to conserve the best interests of all concerned. They are becoming each year of greater importance and in style more dignified. The time has passed when we need be told that somebody's pigeon in flying over the greenhouse had smudged the glass. For the amateur such able papers as *Country Life* and others are doing good work in their broad paths. We still lack and need an every week artisans' paper that shall reach the city and inter-urban amateur. The lay press has also done much for the development of the business in every line, more especially such papers as the *Chicago Tribune*, that has special articles written for its clientele. Specially prepared articles for each locality serve a much better purpose than pre-digested ones from a central bureau, and everybody should become sufficiently interested in his own newspaper to send seasonable articles for the benefit of its garden-loving readers.

In greenhouse construction how decided the change is since Dayton, 1885, can only be realized by those who were at the prow then and fortunately and happily are yet with us. When greenhouses were built 18 feet, then 21 feet, then 24 feet wide and over 100 feet in length—why, that was thought nearly perfection. Then the heating had to be reinforced in the center of the house by extra parallel lengths of pipe so as to insure a comparatively even temperature. Then houses 150 feet in length were ventured, afterwards 200 feet, and today 300 feet is not considered the limit. In 1885 the correct house for roses was long roof to the south, with a short one to the north; now, equal spans of 40 feet in width and even wider are in existence, with correspondingly high ridge poles, besides the short spans with their iron gutters, supported on slight columns with the least possible obstruction to light. Some of these short-span houses are 100 feet or more wide and the length is determined only by the space which is available.

In 1881, in the old Republican Hall at 33rd street and Broadway, New York, when the business of winter forcing was entering into rapid development, I said "Light, light, light" was the most necessary attribute

for success. I have said the same ever since and I emphasize it again today. These large houses with their light iron and steel construction, which afford the maximum of strength and the minimum of shade, and glass up to 24 by 36 inches, seem to have almost reached the limit of advancement. It may be that within a few years glass with pliability enough to roll will be manufactured in widths of 3 or 4 feet and only limited in length by the extent of the sash bars (I have no hesitation in predicting it), and this will mean more light. What a short time it is since the passing of the 2 1-2-inch deep sash bars, 5-inch rafters and 6-inch purlines, and 10 in. by 12 in. glass. No doubt there are and were a great many who realized the importance of light as much as I did or do, yet had not the means and could not get monetary support enough to put their ideas into effect. In 1885 the suggestion of a glass house 700 feet long, 40 feet wide, one span, would have been regarded as extravagantly absurd, and the man who would have dared to say "that's what I'm going to do" would have been ran away from. Yet we have today our 700x40x30 houses. It costs lots of money to make such things, and in 1885 we hadn't the money.

As to the hot water versus steam controversy which has raged incessantly since 1885, we can safely say that first-class stock comes from hot water and from steam—if the men themselves are first-class, not without. There never should be and there never has been any difficulty in getting sufficient heat where the coal pile is big enough, the boiler big enough and a pipe capacity sufficient for a circulation to maintain a temperature of 150 if necessary. In heating, since 1885 there really is nothing new, except that common sense application is more understood and acted on. Water boils at the same temperature now as then; there is no more caloric in the coal today than there was then; and I question very much if there is actually any plan known which enables us to get more heat out of coal than was available at that time. In administration the larger establishments have availed themselves of the economical appliances in the stoking and draft control of the fire, things well understood in manufacturing concerns where large quantities of coal have been consumed for fifty years. Thirty years ago 140 tons of coal a year was quite a pile for the average greenhouse man to burn. Heating, as compared with light, is a third or fourth consideration.

I cannot refrain from telling a story about heating which is amusing and incidentally brings to mind what was attempted with the rose Wm. Francis Bennett on Long Island, and how it failed. The "old guard" needs no reminder. At Queens, bright and early one Monday morning in January, a man walked into the shed carrying, as I thought, a book peddler's outfit, yet he did not look exactly like a peddler; then I thought he might be the registrar of births, deaths and marriages; then he might be the assessor of taxes. Ultimately he turned out to be the census taker. This is what he said: "You don't keep your greenhouses half

hot enough; come down to Middle Village and I'll show you something about heating. I've got the Wm. Francis Bennett rose (he had interested with him a wholesaler who lived under the Fifth Avenue Hotel in New York). I've got two boilers where there was only one and I've got my piping trebled, and whilst it takes those Madison and Flushing fellows 21 days to root a rose culting I do it in less than half the time, and you can see what that means." Some of us remember the results of this double-barreled heating apparatus and the way it cooked Bennetts.

There is nothing new in the arranging and locating of heating pipes, but the advance in construction of ventilating apparatus has been very great since 1885. The recent mechanical watering device of Louis Wittbold deserves to be tried by all those having establishments, whether great or small. I have not the least hesitancy in stating that it possesses a great deal of merit.

One of the great things accomplished since 1885 for the welfare and best interest of florists and pot manufacturers is the standard flower pot. How much has been saved—room in nesting, room in benching, saving in freight, less breakage, and less costly. There was a fight for the "Standard," and Landseer did not make the picture.

Methods of disposing of cut flowers have grown rapidly on the line of commission houses, which seemingly is accepted as the best method for that purpose. As recently as 1890 there were less than a score of commission houses advertising in the trade papers; now there are nearly four times as many. The increase in advertising in all other branches of the business is even more marked. In 1890 there were scarcely more than 150 advertising firms, while today there are 300 or more.

The steady growth of the pot plant trade is almost incredible, and this is not confined to any class of plants in particular. Any plant when skilfully and well grown is as readily sold as a peck of potatoes. The pot plant trade will not hurt the cut flower trade at any stage, and it will not be very long ere the business of growing of pot plants will be of as much importance as is the cut flower growing.

The past few years have brought great changes in summer bedding, the once popular carpet and figure bedding having almost entirely disappeared. This was undoubtedly caused by the flagrant abuse and the wretched workmanship of the so-called artists. Given the proper position and the right material in the hands of men of good taste who would make pictures to fit and there are places for carpet bedding as there are for fin tacks. Bold massing of color in large displays seem the most popular in flower garden treatment at this time, but the fashion may change to something else ere long. The appreciation herbaceous plants are receiving has brought them back to a better position even than they enjoyed forty years ago; this is a branch of the business which will well repay further exploiting.

Taking roses, not only those grown for cut flowers

but those grown for garden purposes, to which class are being added year by year many kinds of sterling merit, the time is not far distant when American roses for American gardens will be more eagerly sought for than they are today. The latest and best additions to our out-door roses undoubtedly are the many forms of the Rambler type, Wichuriana, and of Rugosa. These are all advents since 1885, and it has been worth waiting to see such beauties as Crimson Rambler, Lady Gay, Dorothy Perkins, and some of the lovely single forms.

The carnation since 1885 has been more conspicuous than any other flower. The improvements have been continuous and really marvellous. The pliability and amenability of the carnation affords to raisers of seedlings more satisfactory results than can be obtained from any other tender plant, as they produce so many good varieties in comparison with the numbers raised. Whether very marked improvements in carnations will yet come remains to be found out. I am satisfied that without the introduction of some other species of dianthus, it is not likely to be nearly as marked as during the last decade. There is yet lots of room for good, new carnations of the right colors, outside of red, pink and white.

The chrysanthemum, the great and glorious finisher of the year, is more firmly entrenched than ever and will never, never be displaced. Not only are the largest getting larger and the smallest smaller, but every one, be it great or small, is growing in favor. Somebody's going to take up pompons and make a revelation. We still do not want or need chrysanthemums at midsummer, but just as soon as pumpkins show yellow it's then and thence forward.

For summer decoration the improvement in cannas stands out boldly. Previous to 1885—with one or two exceptions—cannas were only grown for their decorative foliage feature, since which time they have been conspicuously beautiful for their flowers. It is very satisfactory to know that many good varieties are now being raised in this country. The canna is not nearly as much appreciated as it should be—much remains to be done to bring the canna forward as a pot or vase plant.

Dahlias, particularly in the east, have jumped into well-merited popularity. Their many forms and varied colors make them valuable not only as garden plants but for pot flowers, and no doubt as a late summer flower they will remain with us.

The above are but a few of the many important things that have been done and have happened since those days of 1885, when the S. A. F. ventured to make a bid for a position which by some was feared would not be possible to attain. The result shows the good judgment of the few who had the temerity to go ahead. The watchword is still "Forward," and yet still "Forward." It is as necessary today as it was in 1884 and 1885. May success ever attend the efforts of the S. A. F.

The Elm Leaf-Beetle

GALERUCELLA LUTEOLA, MULL.

The elm leaf-beetle is worst this season than it has been for several years, and it is doing great damage to the elms, especially in Massachusetts. The beetle first appeared in New England about 1892, coming originally from southern Europe, around 1835.

The damage is done in both the larval and adult stages and the work is confined entirely to the elms. The young feed on the lower surfaces of the leaves, completely skeletonizing them, so that they become seared and brown. The old beetles eat everything up clean except the veins. Many of the leaves, sometimes all, drop off, and city streets often take on an autumn appearance because of the windrows of fallen leaves and the bare and desolate aspect of the trees.

The beetle causing this damage resembles the striped cucumber beetle in general appearance. It is one-fourth of an inch long, yellow on the back, marked with two broad black stripes on the wing covers. The head and thorax are marked with several black spots. The abdomen is black, with yellow markings. The legs are a brownish yellow.

Hibernating in cracks and crevasses the adult beetles pass the winter, appearing the following spring with the foliage. They feed until the leaves have attained full size, when the eggs, four to six hundred in number, are laid. These are deposited on the under side of the leaves at irregular intervals, in lots of five to twenty-five. They are oval in shape, 1-32nd of an inch long, attached at one end, pointed at the other, and yellow in color. As the egg laying period consumes such a long time all stages of the beetle can often be found together.

The young larvae hatch in a week, and the grubs commence to feed. After fifteen days they reach maturity, and are then ready to transform, being about seven-sixteenths of an inch in length, elongated, slightly tufted and greenish yellow and black in color, the yellow being in two stripes, extending from the head to the tip of the abdomen. The underside is yellow and orange, marked with black dots. The head and thoracic legs are black.

They quickly change to naked orange colored pupae, about 7-32nd of an inch long, bearing some resemblance to the adult minus the wings. Crevasses of the bark, crotches of the limbs, grass, and rubbish around the base of the trees are favorite spots for pupating, which takes place about the last of July.

In a week or so the life history is completed and these beetles lay the eggs for a second brood, which are generally the ones found hibernating during the winter.

Combative Methods. Two combative methods present themselves. The first, and best, is to cover the foliage with some arsenical poison such as paris green, arsenate of lead, or disparene. The most important time to spray is when the leaves are only partly formed, in order to catch the beetles before they lay their eggs. A second or third application may subsequently be required.

The second method consists in killing the pupating larvae after they collect around the trunk and lower branches with whole oil soap, kerosene emulsion, soap suds, or hot water, but this way is not very satisfactory, as it catches only about 50 to 60 per cent. It is the best method to use on places that have but a tree or two, but it needs to be repeated every two or three days.

R. J. Adams.

Do Orchid Roots Gather Vapor of Water from the Air?

In the issue of *HORTICULTURE* for July 7, my friend Mr. James Hutchinson, in an article on *Oncidium sphaacelatum* Lindl., makes mention of the supposed activity of the roots in absorbing vapor of water directly from the atmosphere. Thus is raised again a question upon which I should like to say a further word.

The impression that orchids possess a special power of absorbing water vapor—that is, the uncondensed or gaseous form of water—from the air, arises from the observation that orchids are "air plants," growing perched on limbs and trunks of trees or on rocks where their roots cannot reach any constant water supply in the liquid form, and from the further observation that these plants apparently continue to thrive—they certainly grow for a time—in the greenhouse when they are not watered even for some months. The appearance of new shoots on these plants seems to be evidence of access of water in some form, and if this is not available in liquid form then the source—it is reasoned—must be the gaseous water always present in the atmosphere. The suspicion that the roots are active condensers and absorbers seems to be verified by the structure of orchid roots, which possess several to many layers of empty cells in the spongy velamen, or covering, whose walls would seem to be well suited for the work. Furthermore, there is high authority in the older scientific literature for the theory of direct vapor absorption by these aerial roots. Kerner, in his great *Natural History of Plants*, for example, dwells at length upon the fine adaptation of cell-structure to this work of absorption, which absorption he considers to be proved by the experiments of Sachs and others. An extract may be given. "But these roots also possess the power of condensing the aqueous vapor contained in the air. They act upon the moist air in which they are immersed in exactly the same way as spongy platinum or any other porous body. If the aerial roots of *Oncidium sphaacelatum* are transferred from a chamber full of dry air to one full of moist air, they take up in twenty-four hours somewhat more than 8 per cent. of their weight of water; those of *Epidendrum elongatum* absorb 11 per cent., while in the case of many other tropical orchids the amount thus imbibed is doubtless much more considerable still." Nevertheless, I believe that the roots and other parts of the orchid plant are quite devoid of any special powers of gathering vapor—i. e., gaseous and uncondensed water—from the air. The defect in all the older experiments was the failure to guard against dew-formation in the moist chambers used for exposing the roots. The older botanists were as a rule poor physicists. Everyone familiar with physical experimentation knows that a closed chamber of air saturated with water vapor at a given temperature will experience precipitation of dew from the contained air, if the temperature lowers even a fraction of a degree. Now dew is liquid water, and if this is the source of the roots' gain in weight,

the matter is cause for no special wonder, since roots generally absorb liquid water.

At the Ames Botanical Laboratory extensive experiments have been made, published in full some time since, in which the source of error of the older experiments was avoided. The chamber used was never quite saturated by moisture, the humidity ranging from 90 to 95 per cent., as recorded by the hygrometer. No dew could be formed under the conditions maintained. And in such a high-humidity chamber orchid roots from the genera *Angraecum*, *Brassavola*, *Brassia*, *Burlingtonia*, *Cattleya*, *Cypripedium*, *Dendrobium*, *Epidendrum*, *Laelia*, *Masdevallia*, *Maxillaria*, *Odontoglossum*, *Oncidium*, *Peristeria*, *Scuticaria*, *Selenipedium*, and *Vanda*, were shown by most careful weighings on delicate scales to lose weight steadily until dessication resulted in death after some days or weeks. These experiments were done with cut roots, the cut ends sealed with wax. If our results are not conclusive on account of the roots being cut off from the plants, neither are the old experiments of Sachs, Duchartre and others, which were likewise done with cut roots. But to me, after considering the vital relations attentively, the experiments are entirely conclusive, to the effect that the spongy sheath of orchid roots has no special powers of condensing water-vapor, and passing this water along to the plant for use. Not to let the question rest in dispute, however, I made experiments with whole plants, the roots of which were suspended in the moist chamber, while the stem and shoot were enclosed in a separate receptacle. The plants, with the receptacle for the top, were weighed from time to time. It was proved that thus conditioned the roots furnished the plant with no water, although the plants in the course of more than two months made some new growth. This must have been at the expense of water already within the plant body at the beginning of the experiment.

About the time our experiments were going on, Nabokih, in Germany, tested eleven species from nine genera in saturated air kept at a constant temperature and found no absorption of vapor of water, except a minute quantity in one root. His conclusions and mine agree.

After all, there is no reason why orchids in their native localities should seek water vapor; because the rains and dews in the tropical mountain forests are heavy for long periods together. In the Andes, for example, even in the dry season there are very abundant dews at night, so that the orchid roots become saturated with water and the plant gets all it needs for daily use. This is the characteristic condition for the great orchid regions. Speaking from experience in the Orient, Goebel says: "One needs to have made but a single morning excursion in the mountain region of a tropical forest in order to understand how wet the woods are even after a rainless night, and to see that the root-sheath of the orchids is capable of taking up a great quantity of water from the dew as well as from the rain." Goebel, one of the keenest observers, does not agree with the view that vapor-absorption is an important function of these roots.

R. G. Leavitt

Ames Botanical Laboratory, N. Easton, Mass.

Pyrus Malus Halliana or Parkmani

The beautiful specimen of this ornamental tree which we illustrate herewith is growing in the grounds of Professor C. S. Sargent, at Brookline, Mass. The original plant came in a package sent from Japan to Mr. F. Gordon Dexter about forty years ago. Mr. Dexter gave it to his friend Francis Parkman, in whose garden it soon attracted attention and became known as the



Parkman crab, and later as *Pyrus Parkmani*. It was then ascertained that the species had been sent some years before to Parsons & Sons, Flushing, N. Y., by Dr. Hall and had been sent out under the name of

smallest known in the apple family—about the size of a small pea, and dark purple in color.

We are indebted to Jackson Dawson for the bit of history here given.

Pyrus Halliana. Dr. Gray called it *Pyrus Malus Japonica* fl. pl. Prof. Sargent has finally designated it *Malus Halliana*.

Whatever name it may bear, it is certainly worthy of a place of honor in any garden. Its long-stemmed, pendant, bright pink and white, fuchsia-like flowers are produced in greatest profusion. The fruit is the

The Retail Florist in the Flower Show

Editor HORTICULTURE:

I have had several inquiries to answer emanating from the article in your issue of July 14th and for the benefit of others that may be interested I take the liberty of making a few remarks upon the subject of retailers' interest in the flower show. After our 1905 experience we are firmer than ever in our belief that it is not possible to give a successful show from an artistic standpoint without the artist, the one who meets the flower buying public direct. He ought to have some recompense, but still it is desirable to do away with prizes and competition. So the question now arises, how can he be reimbursed for his time and outlay? It is necessary for the florist to advertise and where he gets the most advertising for the least money is at flower shows, for it is the flower lover and the flower buyer that throng the shows. Therefore the retailer is recompensed for his time and expenditure by the advertising he gets. It has always been the retailers' cry that the grower was the only beneficiary. That must be so when the grower is the largest exhibitor. But one has but to remember how delighted the public were with the novel and artistic display

the retailers had at the last Chicago show. Therefore, active participation in a successful show can not but be beneficial to the retailer. It is strictly up to the retailers to get together and get busy, promote their own business by showing people in their respective cities what they can get and what high grade cut flowers and plants are like, such as are shown at exhibitions, thus creating a desire for such articles. The retailer's interests are especially centered in such exhibitions because his customers are spectators, so he is a necessity there.

It is my hope to see the National Flower Show talk at Dayton bear rich fruit, but don't take the National Show to New York, Chicago, Boston, or any city where large flower shows are common. Let it be centered in some city where shows are not, but should be, held, as it will awake that city and vicinity, and the need of the National Flower Show would become established.

George Asmus

Phloxes

It is gratifying to know that something like the interest this valuable genus is entitled to is being partially displayed. I say partially, for they are worthy of a great deal more encouragement because of their responsiveness. This group of 12 species gives us flowers from early spring till late in the fall, whilst the superb varieties of *deussata* in August eclipse even the geraniums with their brilliancy. Their perfect hardiness fits them for any garden, great or small. They are of the easiest culture: where potatoes will grow, so will phloxes. Many kinds are suitable for rock work planting. They are the least costly of any meritorious plant. The coldest of weather does them no injury. The handsomest of all annual flowers is *P. Drummondii*. And yet, with all this, it has taken more than a hundred years for their beauty to become known.

TWELVE RECOGNIZED SPECIES.

1. *Amoena*: a June-flowering species with rosy purple flowers, in rather flat heads, and lanceolate leaves. Height from 6 in. to 18 in.; for rock work or front of borders.

2. *Divaricata*: flowers pale lilac, some with quite blue shadings in rather loose sprays; height 12 to 15 inches; April to June.

3. *Drummondii*: one of the handsomest of all annuals; the superb varieties of today are not sufficiently appreciated.

4. *Glaberrima*: flowers deep red, in lax sprays somewhat rounded; leaves quite narrow and shining; height 1 to 2 feet; July.

5. *G. suffruticosa*: flowers of various shades of rose; leaves numerous, narrow and shining; height from 1 to 2 feet; April to July. This is the species from which the early section of phloxes originated.

6. *Linearifolia*: flowers flesh, rose, and white; leaves very narrow and numerous; July; 9 to 12 inches. A pretty species for the rockery.

7. *Maculata*; the flowers in the type are purple, but there are many shades grading down to white. This and *P. paniculata* are the forerunners of the late-flowering section; height from 2 to 3 feet; July.

8. *Ovata*: flowers reddish-purple, in small roundish heads; leaves quite ovate; height from 1 to 2 feet; April and May. An interesting species.

9. *Paniculata*: flowers of various shades—pink, purple and white; height from 3 to 5 feet. I have seen this over 6 feet high; July and August.

10. *Procumbens*: flowers lilac or rose, with dark centers; habit dwarf and spreading. This is considered to be a natural hybrid; June, July and August. A good plant for front of borders and rockeries.

11. *Reptans*: flowers purple violet, in loose cymes; leaves somewhat round in shape. One of the best rockery plants.

12. *Subulata* (the moss pink): a little gem, with many varieties. The flowers of the species are pale pink with darker center; in leaves very small; April; fine for rockery. This has ten or twelve synonyms and macu-

lata even more: nearly all of the others have two or more synonyms also.

PROPAGATION AND CULTURE.

The propagation of phloxes is of the simplest and least expensive. Cuttings are readily rooted at any season, when they are an inch or two high. They are easily divided, either in the spring or in the fall, and they are also most readily raised from seed. For successive crops of flowers, plants may be pinched from 1st of May till 1st of July. Phloxes grown in pots and stopped once form specimens resembling cinerarias.

Phloxes must have rich, deep, well-drained soil to produce the best and brightest flowers. In fact better not attempt to grow them at all unless they can have proper care. Some plants fortunately die from bad treatment, but the phlox is like the peony—it cannot be killed—and it is worse to see half-starved specimens of any thing than to not have them at all. A good sandy soil two or three feet in depth, deeply dug and heavily dressed with good manure, three parts rotted, and watered occasionally with liquid manure, will grow them to perfection. They must have sunshine, no roots of trees to eat their food, and no dripping trees above them.

The distance to plant apart depends upon what the object in view is. Strong plants early planted are good the first year, at the best their second year, not nearly as good the third year, and there should not be any fourth year with phloxes. Eight inches or a foot apart is about right in beds or groups; in rows seven inches is far enough for the first year where massive coloring is desired. When grown in rows so that a cultivator is used, plant two to three or more feet wide—the plants 8 to 10 inches in the rows. The details of further cultivation will naturally suggest themselves from time to time.

The second year, thin out early all shoots excepting three or four of the strongest on each stool. The third year it is better to cut clear out the majority of the previous year's stalks and leave not more than 8 or 10 of the young sprouts to form the group. If necessary, stake before any damage is done; it is best to pass a string loosely around the groups having several stems when the plants are nearing a foot high. Mulch with manure or hay or grass cuttings on thin soils and grades.

The improvement in phloxes has been going on in Europe since 1830-40—in France more than other parts. In 1857 in the late-flowering section, I remember Chas. Rouillard and Ketecleri as being advances in their red shades, and 10 years later Md. Corbay, white, violet center; Liervalli, white, striped purple, and Virge Maria, pure white; the latter one is still to be found. Then from time to time there was steady improvements in deeper coloring, larger panicles, and dwarfier stronger habits, viz., in such varieties as *Coccinea*, *Flambean*, *James Cocker*, *Lothair*, *Richard Wallace*, *Josephine Gerbeaux* and many others which have been left far behind by the magnificent varieties of today.

The earlier flowering section has not been so greatly improved. The best of these thirty years ago were *Geo. Eyles*, purple, *Lady Napier*, pure white, and deliciously scented, *President*, deep red—the first good one in this section.

WHAT ABOUT A PHLOX SOCIETY?

No family of plants is better entitled to a society to care for and develop its interests or will respond as

readily to kindness as the phlox, not excepting the rose or indeed any other genus. The phlox appeals especially to amateurs and gentlemen's gardeners to bring about the recognition it is so plainly asking for. Will the amateurs and gentlemen's gardeners embrace this opportunity and at once go to work and lay the foundation of "The Phlox Society"? I feel sure they will. There should be no difficulty in getting a membership of five hundred at least.

Here are some arguments that can be used: The phloxes are the hardiest of plants, not excepting peonies. They flower from spring dawn till snow time. They grow from 1 inch to 6 feet high. The smaller ones are like moss covered with jewels; the tall ones are as effective as hollyhocks. Their tones and shades of color as numerous as in any other family of garden plants. They are agreeably perfumed. They are comparatively little injured by storms. They have but few insect enemies. White mildew, which is their worst fungus enemy, will never do any injury under good cultivation. Slug shot is a good mildew destroyer.

They are equally effective in formal beds, in mixed borders or in isolated groups on lawns, or rock work. For straight lines in panels of color they have no equal, and it is one plant that fits in such an arrangement, or when grown in pots plunged in the open ground. When in flower phloxes have no competition in effectiveness for use in temporary decorations of whatever kind. As

cut flowers for bold effects—entire panicles are not equalled by any other subject. Here's a pointer: Cut the flowers in the morning, as soon as they are dry from dew; turn the panicles upside down and with an atomizer spray the calyx and bases of the flowers with a solution of gum arabic, which should be just thick enough to be slightly sticky when pressed between finger and thumb, then place the stems in water to a good depth and as soon as the gum is dry there will be no shedding of flowers and the panicles will be in good condition for three or four days. The atomizer must be kept covered in water when not in use and the mucilage tightly corked. Poppies treated this way are made equally as permanent.

For the decoration of summer homes in the country phloxes are invaluable, and now that summer "flower shows" are becoming so much in vogue ("horticultural shows" is a better title, for not one, but every branch of horticulture should be equally encouraged,) phloxes will help to make these displays the more noticeable, at but little cost and with scarcely any sacrifice to the display in the home garden. They may be shown equally as well as cut flowers as in pots.

John Thorpe

A Problem for Rose Growers

Change of stock is a subject which present day rose growers seem to consider a favorite theme for discussion. However, notwithstanding all that has been written on this important topic, it seems as though we are still in the dark as to the best methods of securing the benefits which are commonly supposed to result from the change.

It is not my intention to give here the impression that I have in my possession any valuable information with which I intend to enlighten rose growers, but merely to suggest that there may be certain definite lines to which we must conform, if we wish to attain successfully the end which we have in view. It certainly must appear to anyone, who will give it a moment's thought, that a mere change of stock cannot, in itself, be of much benefit. Yet, there are growers with reputations for keen observation who maintain that they have undoubtedly been helped by changing stock, and these statements ought to lead us to look deeper into the problem, in the hope that our understanding of it may assume a less hazy aspect.

I have known of parties to say that they believed in the practice because they always had good results when they bought—say Beauties or Liberties—from Mr. So and So. Now, in all probability, Mr. So and So used no more care in selecting his propagating wood than dozens of other good growers, but the fact remains that when a certain man bought plants from him he always had good results.

Here is another example. Consider some localities where all the growers seem to do American Beauty exceptionally well, and others where it is only fairly well done, if indeed it can be grown at all. In both cases the growers may be equally skillful, although we must admit that there are some of them who frequently have

an attack of that disease commonly known as temporary enlargement of the cranium, during the continuance of which they are very apt to attribute to themselves qualities which rightfully belong to mother earth. On one hand we find a free, luxuriant growth, and on the other, a hard, stunted, short-stemmed appearance. The only fault that can be found in the first case is the fact that, during the short days, the canes are likely to grow to an abnormal length, or perhaps they may even go completely blind; while in the second, if the grower is fortunate enough to get his plants into the winter in good shape, the very feature which was so troublesome in the fall—namely the tendency to set buds continually—then proves a decided advantage, as canes will rarely run over eight to ten feet before flowering, and blind wood on any kind of a good shoot is almost unknown. The foregoing cases then, illustrate what would be my idea of a desirable exchange of stock. Plenty of other examples applying to tea varieties could be given, but the principle is the same in any event.

The cause for this marked difference in style of growth is what we must endeavor to find out. As far as my observation has gone, I have always attributed it chiefly to the very great dissimilarity in the texture of the soil of the different localities. The point which I am driving at then is this: by acquainting ourselves with the texture of our soils, by studying their possibilities and limitations, we will be in a position to judge intelligently what does, and what does not constitute a desirable change; while, if we are not in possession of these facts, we may make a haphazard exchange of stock which will prove worse than useless.

Alex. Montgomery, Jr.

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DEVOTED TO THE

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WM. J. STEWART, Editor and Manager.

The
abundant
rains

Rarely has the landscape been so beautiful in August as this year. The copious rains—of almost nightly occurrence for several weeks—have given a verdure effect to forest and garden and lawn that is a perfect feast for the eye and the luxuriant growth of all garden and field crops goes far to offset the serious injury down to the hay crop by the prevalent dampness.

About
phloxes

John Thorpe, always optimistic to the limit but usually right in his deductions, favors the readers of HORTICULTURE with some interesting communications this week. His article on phloxes will be read with pleasure and profit by all lovers of this sturdy old garden favorite. Mr. Thorpe's cultural notes on the subject are likely to kindle an unusual train of thought for those who have been accustomed to leave their phloxes to themselves for years after planting, just because the plant would stand for it. The possibilities under intensive cultivation as suggested by Mr. Thorpe are charmingly promising and we all know that the phloxes are well-worthy of all the labor and attention we may bestow on them.

Gardening taste
in England

We read in an English exchange that the taste for gardening is on the decline in that country. So much at variance with our established notions regarding our neighbors across the sea is this that we find ourselves inclined to be sceptical as regards this disquieting statement. It is to be hoped that the condition referred to is only local and does not truly indicate the tendency generally in that country from which we have learned to expect so much in the way of advanced gardening. Our contemporary had in mind, unquestionably, the amateur—not the professional gardener—but it is to the amateur and the neighborly

rivalries engendered by his gardening enthusiasm that the British horticultural societies have looked for the most valuable support in their exhibitions, and it follows that any popular backsliding must soon bring about a decadence in professional gardening efficiency that would be most deplorable.

The S. A. F.
moves on

The Society of American Florists and Ornamental Horticulturists is gradually but surely growing out of the "best-ten varieties-for-winter-forcing" epoch and broadening out into the consideration of the wider phases of horticulture. If any one questions this let him compare the programs and the discussions of recent years with those of earlier date. The convention about to open at Dayton promises to be an almost complete breaking away from the engrossing topics of the past. The outlook for this movement was foreshadowed in the action of the executive board in providing liberally for an exhibition of out-door planting on broad lines. The apathy of the dealers in hardy material and their pitiable inability to grasp the splendid business opportunity thus freely offered to them is convincing evidence that the society and the country are more advanced in the great gardening revival than are the nurserymen themselves, who are, at the present time, apparently so deeply engrossed in the game of separating the man of wealth from a substantial slice of his coin in exchange for blue spruces, carved box trees, and car loads of "maximams," that they can see nothing beyond.

Where are our garden-
ers to come from?

The great revival of popular gardening interest which our country is experiencing at the present time suggests the query as to where the capable gardeners needed are to come from. Hitherto the supply has been almost exclusively foreign and principally British. A scrutiny of the list of private gardeners about Boston, Philadelphia, Newport, Tarrytown, Lenox, and similar places along the coast or inland, preeminent in horticultural art, will show this. Of those, it is only rarely that one rises and stands out above the common level in intelligence and zeal and thrills us with his brilliant abilities and every little while we hear of some shining light deserting the ranks of private gardening to enter the more remunerative (and much more laborious) field of commercial horticulture. Beyond a doubt the old-fashioned system of slow drilling in the groundwork of horticultural practice has been the great factor in the making of good gardeners. But, for those who have attained any distinction in their calling, it has been supplemented in every instance by a self-education in the higher things by reading and attentive study of a loved subject. Our American young man is not averse to the acquirement of the latter qualification—the first named is what feases him, and the emoluments appertaining to general gardening as a vocation must be much greater than they have hitherto amounted to before he can be induced to make any serious effort in that direction. Make the salary adequate for the talents required—double or treble what is now commonly paid—and perhaps he will get a move on.

A Modern Florist

Thos. Roland, the Nahant florist, will be remembered by visitors to Horticultural Hall, Boston, for the many beautiful, unique, and interesting plants he has exhibited there. He comes from Birkenhead in England, and is about fifty years old. He came to this country about twenty-five years ago, having previously had some experience in private gardens in England. After being employed a short time with W. W. Edgar of Waverly, and Thos. W. Dee he went to Nahant in 1884 as gardener to Mrs. Moran, with whom he stayed about seven years. His first venture in the commercial line was to buy out C. F. Johnson, who was conducting a local florist trade. There was about a quarter of an acre of land and two fifty-foot houses on the property. Later he bought additional land, and since then he has continually extended his holding, and built up a large plant. He first struck out into palm growing, and afterwards into violets. At various times he has taken up special lines, and with characteristic tact, energy, and good culture, has invariably succeeded. Though some of the original ventures have been left for new ones, he is still at the front and always has the newest and best in everything. It is only after his lines have been taken up by others, that he seeks new fields. Chrysanthemums for pot culture are still grown in quantity, and these he was taking up from the open ground at the time of my visit recently; Garza is a favorite variety for this work. He has spent large sums, and continues to do so—in ventures; some succeed, others fail, as he expects some will, but in this way only, can one keep at the front.

He commenced growing Gloire de Lorraine Begonia about seven years ago, since which time he has shipped them to all parts of this country, Canada, and also to foreign countries, across the water. About 20,000 plants of various sizes are on hand, with which he caters to an immense plant trade for stores, and has shipped as many as 50,000 in one season. Gloire de Lorraine is grown warm, with a bit of shade. As we saw it, it was a little soft looking, but when established, will be hardened for shipping. Sea sand is used for propagating. Whatever effect this has, it did not appear to be detrimental. It is used as it comes from the beach.

There are large numbers of azaleas, *Acacia heterophylla*, *A. armata*, and cyclamens now on hand for next Christmas and Easter trade. Ferns occupy considerable space,—the Pierson var. *elegantissima*, the "Whitman," the "Scott"—all in large numbers, besides a lesser quantity of *Adiantum Croweanum*. Over three thousand each of "Baby Rambler" and Dorothy Perkins roses are making their summer's growth outdoors for Easter decoration, and some Dorothy Perkins are already in pots in preparation for Christmas. When properly ripened the latter is a very good forcer. Canterbury Bells for pot work are something out of the ordinary,—that is in quantity. The plants are quite large now—a foot or more in diameter. Caroline Testout is a splendid summer

A Fine Strawberry Field



This picture shows a field of Minute Man and Parsons' Beauty strawberries during the picking season at the fruit farm of Wilfrid Wheeler at Concord, Mass. This field contained about two

acres and yielded at the rate of 7,000 quarts per acre, although the season (1905) was very dry. These two varieties of strawberries are very productive when planted together and are very profitable market varieties.

rose, and gives a large quantity of bloom for local trade. *Primula obconica*, and *Bougainvillea Sanderiana* are other Easter plants, as well as a few of the old fashioned *Mahernia odorata*, and *Clematis indivisa*, trained on globes and in other fantastic ways. I saw over 10,000 seedling *Asparagus plumosus* which will need attention later. Other special lines are *Draecena Brantii*, *D. Massangeana*, *D. Sanderiana*, *D. terminalis*, *Erica melanthera*, *Cytisus racemosus* and *Cyrtomium falcatum*,—known as the Holly Fern, and a very durable one for house work.

Building has continued as needed to accommodate the various ventures, until now there are thirteen houses over 100 feet long and seven acres of land, a very compact range, with all modern conveniences,—machine shop with motor, packing sheds, and storehouses. There has always been a lot of outside work done, a force of 12 men being regularly kept for this purpose. Some laying out and planting comes occasionally, which brings trade for stock, and a lot of decorative work about the residences.

T. D. HATFIELD.

OUR FRONTISPIECE.

For the photograph of *Iris Kaempferi*, which furnished our frontispiece this week, we are indebted to Messrs. Bobbink & Atkins, Rutherford, N. J., who handle large stocks of this sterling Japanese species.

C. U. Fohn has resigned his position as forester of Keney Park, Hartford, Conn., to take charge of the estate of Gen. Wm. J. Palmer, Glen Eyrie, Colorado Springs, Colo.

LATEST VARIETIES OF HELIOTROPES.

Translated from "Revue Horticole" by G. Bleicken.

Garden heliotropes, plants so useful for summer decorations, have been improved much of late years, and Mr. Bruant of Poitiers, is one of those, which have contributed the most to this progress. Heliotropes demand little care. Given a warm and somewhat shaded place, they carry their flowers well above their foliage.

Bruant's latest introductions:

Ceil Poitevin: robust, half dwarf, with vertical branches, large and elegant umbels, sky-blue, first-class in size, having the lobes turned back to the outside and showing a large white centre.

Ruskin: good grower, half dwarf, sturdy, branching and bushy, beautiful flowers, deep rose-violet with a white centre.

Madame Mathilde Cremieux: robust, but staying dwarf, branching, compact, with large umbels covering the plant, clear light heliotrope-rose-tinted flowers.

L'Aquitaine: dwarf, bushy and dense, large flower-umbels, fine odor and nearly pure white; the nearest to white color obtained up to this day.

Frida: half dwarf, branching, large umbels of a pretty lilac tint, strongly perfumed.

Alexander Myrial: half dwarf, branching, large umbels of a very beautiful steel grey color, with lilac and violet eye.

Phenomenal: good habit and with gigantic umbels, violet color.

CONVENTION TOPICS

DAYTON IS ALL READY.

As soon as you arrive in Dayton, Ohio, make free use of the Information Bureau at the Union Station. You cannot miss it. Some members of the Dayton Florists' Club will be at the depot at all times to help you along as much as possible. Leave your baggage with the baggage master at the Information Bureau, and he will deliver it to your respective hotel or boarding house at once.

In the office of the Exhibition Building you will find a United States post-office established, so address all your letters to the Exhibition Hall, reading: "Convention, Society of American Florists, Fairgrounds, Dayton, Ohio." Furthermore, for your convenience you will find a telegraph office at the Secretary's office, besides the free use of telephones.

A large bulletin board will be provided, where you may make your notice if you want to meet some one. Keep your eye on the bulletin board.

A book of complaints you will also find at the Secretary's office, and furthermore, a box where you may deposit some suggestions for the running of future conventions. Make free use of these suggestions, and do a little thinking yourself, for a handful of men can't do it all. You may know something that will be to advantage in the future.

Patronize the exhibitors and advertisers well. Have cheerful words for everybody and at least make these fellows feel good. A few nice words don't cost you anything. Let this convention be run a little more on the patriarchal style and be one family. Try to stay together and get acquainted with each other.

Have as good a time as you possibly can. The Dayton Florists' Club will do all in its power to give you such a time. Take free part in all discus-

sions, and don't put your light under a bushel. Boost the National Flower Show. If there is anything you want, make it known to the Chairman of the Dayton Florists' Club, who will do his best to see that you get what you are missing if at all possible.

We would like to direct your attention to a novel feature of this convention, that is the exhibition of plans for parks and suburban and city homes, of some of the largest concerns in the United States, also of some undiscovered talent. You will be surprised what talent is slumbering in the art of landscape gardening and garden architecture. As the National Association has made no provision for prizes for such an exhibit, the Dayton Florists' Club will do so in the shape of gold, silver and bronze medals. Any young man who has not exhibited yet should not fail to make his entry but come forward. It may be the making of him; it may bring him fame and fortune.

We regret to say that, through some misunderstanding, a large Southern concern has placed its exhibits of cannas in the public parks. However, the same concern will exhibit its cut flowers in the Exhibition Hall, and all desiring to see these plants in the beds will be taken into the respective parks in a private conveyance by our general Park Superintendent, Mr. Killworth.

Here is another point we would like to call attention to. That is the street car service. Take the yellow car that is called the Xenia Traction Line only and don't crowd in the cars, for there is plenty of facility. You will only have to wait a minute or two for another one.

The Chairman of the Dayton Florists' Club has paid a great deal of attention to the musical program, and has selected every piece personally,

and is quite satisfied that you will get, either in orchestra or band music, the best that can be produced. We have avoided the classics and only chosen such pieces as will make you feel good. Ladies, make free use of the dancing platforms and select your partners.

As this is our last communication before the Convention, the Dayton Florists' Club hope to see you all in person and have a good time together.

J. B. HEISS.

PHILADELPHIA NOTES.

Forty-nine big cases full of Bayersdorfer novelties and staples left here early this week for Dayton and will be followed by the usual aggregation of bright and engaging salesmen and decorators. The Bayersdorfer end will be kept up in the usual efficient style.

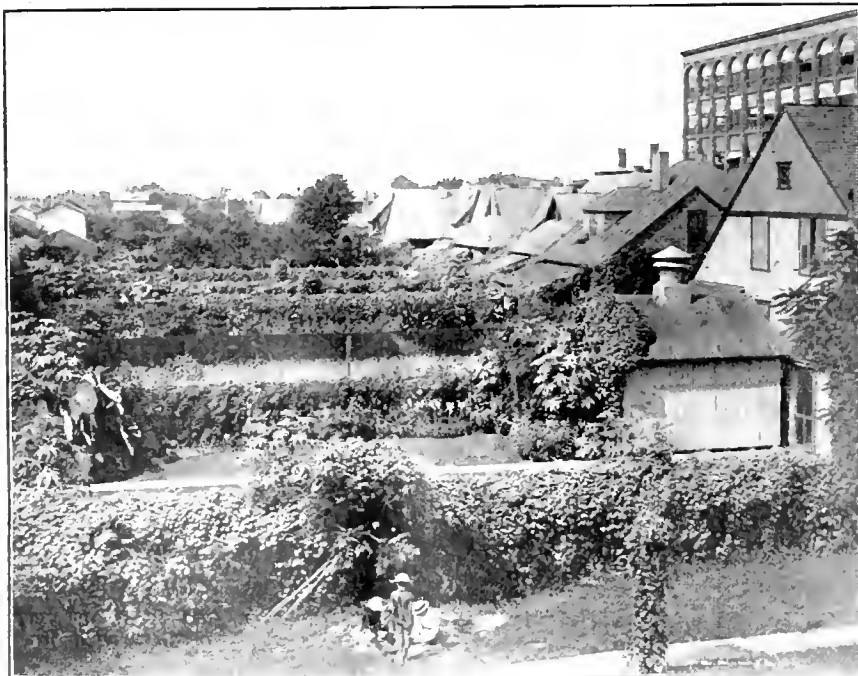
Dreer's will be represented this year by J. Otto Thilow, Mr. Ruppert, Mr. Cairns and Mr. Goudy. Mr. Thilow has kindly consented to give our club a review of the convention from the seedsman's standpoint and we look forward to refreshing new thoughts from his broad and original mind. I do not remember of Mr. Thilow ever having gone to an S. A. F. convention before. He will therefore be keen and unblinded by long usage in presenting his impressions to us.

The same may be said by Charles E. Meehan, who has been appointed to review things through the commission man's spectacles. The gentlemen who will respond on behalf of the grower and retailer are not yet announced.

The Philadelphia delegation will leave by the 4:30 p. m. express from Broad street station. Be sure to ask for a certificate when you buy your ticket. Also be there at least 30 minutes ahead of train time. And phone or see Mr. Westcott at once about Pullman accommodation.

The personnel of the Philadelphia bowling team for the convention is as follows: Robertson, Connor, Falck, Graham and Adelberger. Dunlap goes as extra man. Several of our best bowlers, including Moss, Polites and Anderson, failed to qualify, but we have a very fair team all the same. The finals were rolled Aug. 9 with the above result.

The Robert Craig Co.'s stock never looked better than at present. Their leading feature this season is three houses of the new *Ficus pandurata*, the best new thing in house plants in years. Majestic in appearance and tough as leather. Messrs. Craig have the finest stock of this plant in the world, in fact the only stock worth mentioning in quantity. They have also a new dracena in training for next Christmas. The most brilliantly colored of any dracena to date and bound to cause a furore. Will not show its true character for some months yet. Crotons and cyclamens are also strong features here this year as usual. This firm will have a display of samples of their leading specialties at the convention. Robert Craig and his son William P. Craig will both be on hand to greet old friends and welcome new ones.



SOME DAYTON BACK YARDS.



HORVE M. FRANK
Sec. Dayton Florists' Club and Supt. of Exhibition



J. B. HEISS
President Dayton Florists' Club



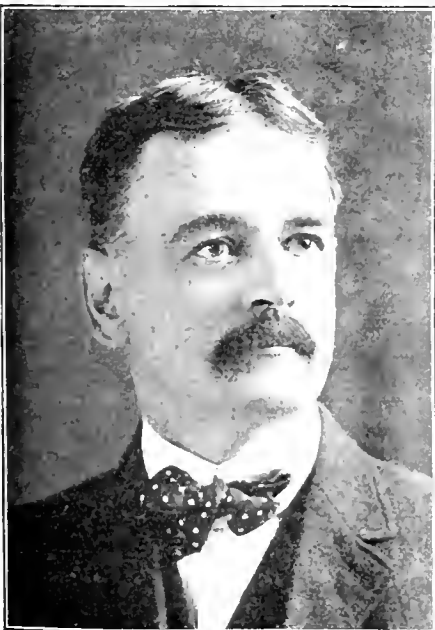
GEORGE ASM
Manager of Bowling Tournament



W. E. KASTING, President

Officials
of the
S. A. F.
and
Dayton
Florists' Club

A Group
of
Busy
Workers
for the
Convention



H. B. BEATTY, Treasurer



H. M. MILLER, Vice President



WM. L. SMITH, Secretary

NEWS OF THE CLUBS AND SOCIETIES

NEWPORT HORTICULTURAL SOCIETY.

The exhibition of the Newport Horticultural Society, held Monday, Tuesday and Wednesday, was a decided success in spite of the long spell of unfavorable weather preceding the show. Dahlias were not shown in such great numbers as last year, but the blooms were in no way inferior to those of former years. Cactus dahlias, as far as Newport is concerned, are still holding their own. While the fancy and show types were poorly represented, single dahlias were well shown as to quality, but the number of exhibitors of this type were smaller than last year.

Out-of-town growers came in force and did pretty well, considering what they were up against. Mrs. Jahn took four firsts. Mrs. Jahn comes from New Bedford where, they say, they grow dahlias everywhere, even on the housetops. A. J. Fish of the same place captured several firsts. Mrs. Wordell, also from the Whaling City, put up a splendid collection for exhibition, for which she was awarded a gratuity of \$10. In the larger classes for dahlias the most successful exhibitors, in the order named, were James Robertson, gardener for Mrs. T. O. Richardson; Andrew Christensen, gardener for Miss Forster; James Boyd, gardener for Mrs. Astor; Colin Robertson, gardener for Mrs. Robert Goelet, and John Marshall, gardener for Hon. Perry Belmont, and Gibson Bros.

Colin Robertson took first for a group of palms, ferns and flowering plants; James Robertson was second, Gibson Bros. third. In the class for palms, ferns and foliage plants, Colin Robertson had no opposition, and notwithstanding that supports were forbidden, he put up a good, showy group. In the class for sub-tropical plants, James Robertson had also a walkover, with a bed that looked the counterpart of the one illustrated on the frontispiece of last week's HORTICULTURE. In the gateway decoration, F. L. Zeigler took first, with medium sized evergreens.

John Marshall took first in the class for table plants, James Boyd second. In the class for ferns and flowering plants the order was reversed. James Boyd, with gloxinias and *Adiantum cuneatum*, took first; John Marshall, with gloxinias, begonias and *A. Farleyense*, second.

James Boyd took first in the Farquhar class for flowering plants, with six gloxinias. Colin Robertson took first in the Farquhar class for foliage plants, with six superb crotons. The same exhibitor took first in the regular class for crotons. James Boyd had no opposition in the class for dracaenas in 8-inch pots. David McIntosh took first for dracaenas in 6-inch pots. In the class for a group of ferns, Bruce Butterton had an easy thing. John Marshall was second, with N. Scottii and *A. Farleyense* and *A. cuneatum*. James Boyd had a good lot of rex begonias, with which he took first; A. Christensen was second.

In the class for a group of palms, ferns and foliage plants to cover 50 sq. ft., James Boyd was first.

Colin Robertson made a clean sweep of the classes for specimen palms.

F. L. Zeigler showed a small group of *Phlox x Rodeleuil*.

There were only two silver medals awarded, and these were given to Messrs. Julius Roehrs and Lager & Hurrell. T. Knight brought an exceedingly choice assortment of decorative foliage plants, orchids and rare flowering plants from the establishment of Julius Roehrs, and the judges' recognition of this exhibit gave unqualified satisfaction to everybody. Messrs. Lager & Hurrell staged a good lot of orchids, which attracted considerable attention.

John Lewis Childs had on exhibition the largest collection of gladioli ever seen here. Most of the varieties were of recent introduction and all good. This exhibit was passed by the judges, in order that each variety could be seen by itself. This could be done in time for judging in the evening. Vaughan's Seed Store had also a beautiful gladioli on exhibition, which will be judged along with the exhibit of John Lewis Childs.

James Crawshaw of Olneyville showed *Asparagus plumosus Crawshawii*. This variety is an improvement on the older varieties, in that it is softer, of a darker green and because it does not get twisted as the others do.

Henry A. Dreer had as usual a good display of aquatics, in charge of John S. Hay. This firm also staged some palms and choice foliage plants. Judgment on this exhibit was also deferred until some of the water lilies could be seen to better advantage.

Alex. Anderson, gardener for Mrs. Emery, took first in the Schlegel & Fottler class for vegetables; he also captured this firm's prize for a collection of annuals. James Nicol, gardener for J. Arthur Beebe, Falmouth, took first for a collection of herbaceous blooms, Gibson Bros. second. The classes for fruit were not as well filled as we would have liked. James Boyd took first for peaches and nectarines, while James Robertson and A. Anderson divided honors in grapes.

There were eight entries for the class for school children, and seven were filled, all of which were marvels of patience and persistent research on the part of the youthful exhibitors.

The judges for the first day were Bruce Butterton, Stewart Ritchie and Alex. Fraser.

Tuesday the fancy baskets and other made-up work will be shown. On Wednesday the table decorations will be competed for. For these the judges are Richard Merritt, of the J. M. Hodgson Co.; Ralph Armstrong, of the Wadley & Smythe Co., and William Gale, of Galvin's Gardens.

From the support coming from all sides, the society will stand better after this show than it did for some time.

FLORISTS' CLUB OF WASHINGTON, D. C.

There will be about twenty representatives of this club to attend the convention at Dayton. They will travel by the B. & O. R. R. The bowling team will consist of Wm. H. Ernest, captain, George Cooke, J. J. Barry, S. Simmons, Geo. Shaffer and Robert McLennan. At the last meeting Z. D. Blackstone was elected vice-president of the club.

NASSAU COUNTY HORTICULTURAL SOCIETY.

This society met at the usual place and time on Wednesday, 8th inst. There was a very large attendance of members. President Harrison being in the chair. One was elected and one nominated to active membership. In the competition for points, S. J. Trepress scored 92 1-3; H. Meyers, 87; Felix Mense, 81 1-3.

The silver matchsafe, given for the best six varieties of vegetables, was awarded S. J. Trepress. Others in the competition were T. Harrison, Peter Ewen and H. Matz. Some good pears were exhibited by Jas. Holloway. *Cannas* and *Dendrobium thyrsiflorum* by F. Boulton, and *canna King Humbert* by Peter Ewen.

The subjects for competition at next meeting are dahlias, in three classes, each with a box of cigars as a prize, as follows: Best collection of single dahlias, best six varieties show dahlias and best collection of cactus dahlia, all to be correctly named.

A very interesting and able paper, entitled, "How to Grow American Beauty Roses," was read by C. Berenzell, Glen Head, for which he received a very hearty vote of thanks.

J. F. JOHNSTON.

BUFFALO FLORISTS' CLUB.

A special meeting of the Buffalo Florists' Club was held on Wednesday afternoon at the hall of Wm. F. Kasting, and considerable business of importance was transacted.

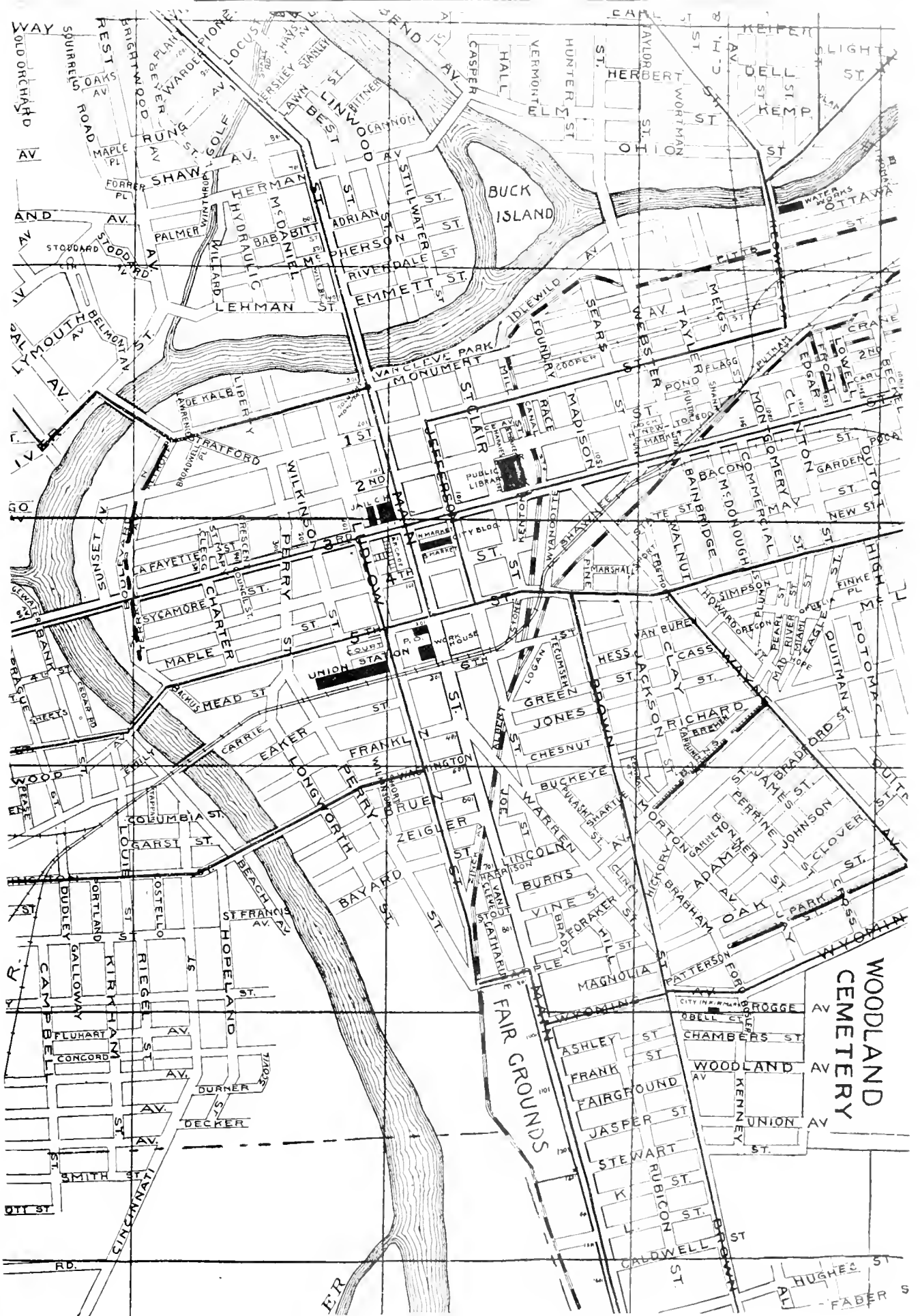
The sad news of the death of Mr. Jas. Hartshorne of Joliet, on Aug. 6th, was imparted to the members present. A resolution was adopted conveying to the family its sincere sympathy in their loss, for Mr. Hartshorne was known and highly esteemed by the florists of Buffalo, and it is with profound sorrow that we learn of his death in the prime of his manhood.

Convention and picnic matters were discussed, also many applicants were elected to membership. Amongst those elected were Paul Liebsch, Batavia; Wm. Latorer, Felix Albert, Jas. Higgins, all prominent florists, who will be found to be good workers for the club.

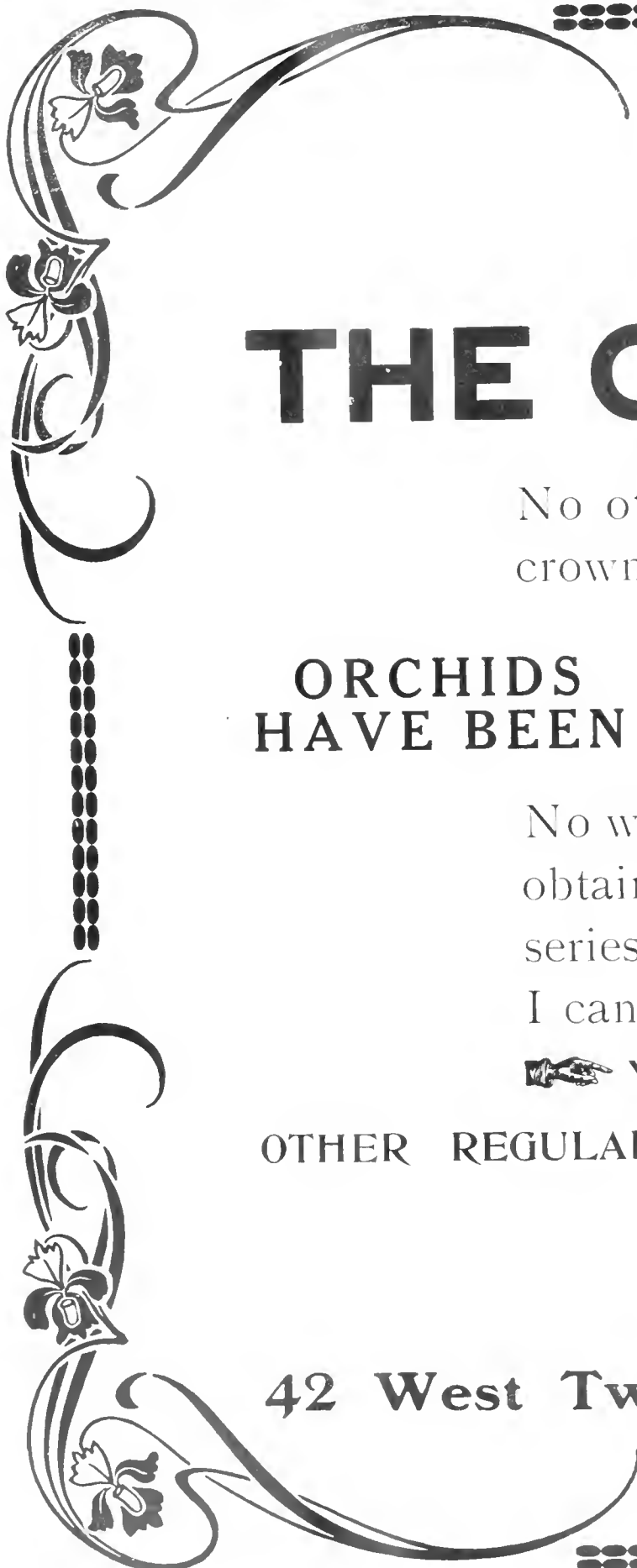
The annual outing will take place at Fort Erie Grove, Ont., Sept. 5th, the committee comprising Wm. Scott, Sr.; E. C. Brucker and Wm. Legg. The committee intend to make it one glorious day for all, as special arrangements are being made to insure the best and most well attended outing in the history of the club.

MAP OF DAYTON.

We present herewith a map of the section of the city of Dayton in the neighborhood of the railroad station, fair grounds, etc., which should be of service to the S. A. F. visitors in finding their way about the convention city. The hotels are practically all located in the district shown, most of them but a short distance from the railroad station.



MAP OF CENTRAL PORTION OF THE CITY OF DAYTON.



Always

AS A BUSINESS

THE ORCHID

No other flower ever has or will have the crowning beauty of all floral displays.

**ORCHIDS
HAVE BEEN**

MY SPECIALTY

No where else in this country can be obtained. **IF YOU WANT TO LEARN**

more about a series of regular shipments, I can do for you in standard

YOU WILL FIND YOU HAVE

OTHER REGULAR STOCK — GARDINIAS, LILIES,

JAMES M.

42 West Twenty-Eighth Street

TELEPHONE, 159

Winner

BRINGER

AS NO RIVAL

can fill the place it fills as **THE**
at any and all seasons.

SPECIALTY **FOR**
MANY YEARS

the same quantity and variety be
the season by arranging for a
NOW, and let me tell you what
or assorted boxes.

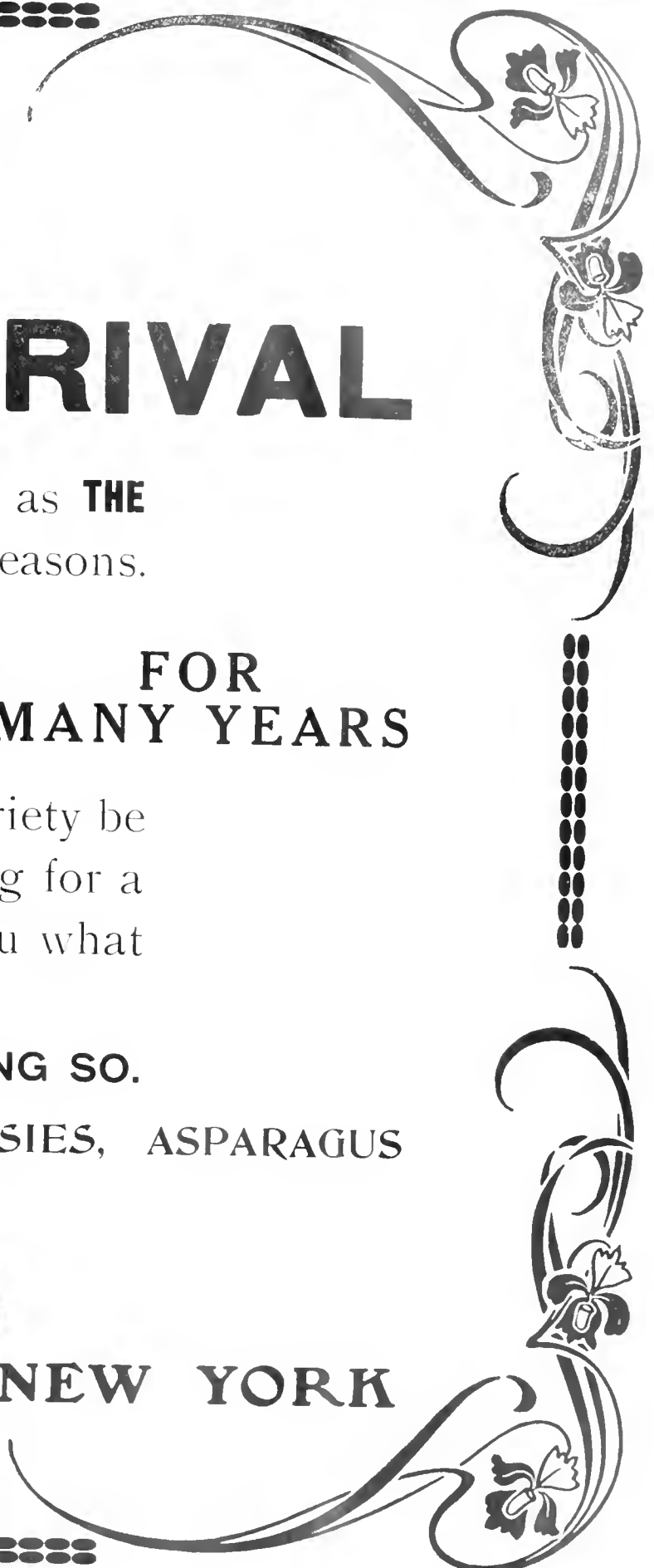
BE NO MISTAKE IN DOING SO.

OF THE VALLEY, DAISIES, ASPARAGUS

MANUS

NEW YORK

SON SQUARE



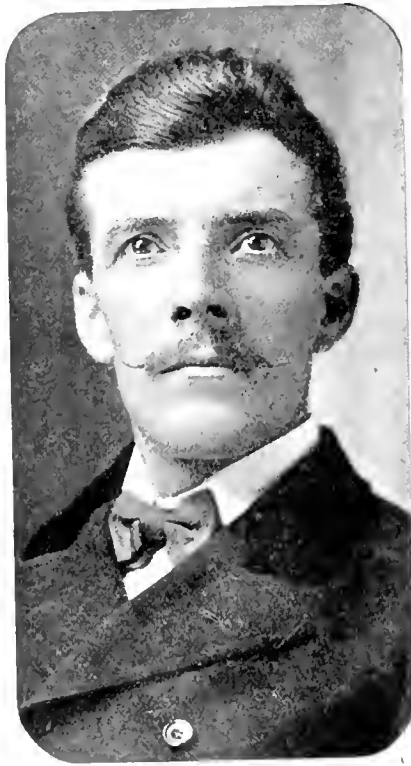
[REDACTED]

OBITUARY.

[REDACTED]

The Late James Hartshorne.

Poor Jimmy Hartshorne. He will be keenly missed and sincerely mourned. The news of his death came as a sad shock to a host of friends, for it had been his lot during the few years of his association with the active horticultural spirits of the country to win the affection of his companions in a degree attained by but few men. He was possessed of a large heart, a sanguine disposition and a bright, companionable manner that drew his associates to him with almost magnetic force. His services in the advancement of the carnation are too well-known to



need recounting. In the cause of his chosen flower he was a devoted, earnest worker. As manager of the Chicago Carnation Company he was enthusiastic in the acquisition and subsequent dissemination of promising and meritorious novelties and a large and successful contributor to the exhibitions throughout the country. Among his own seedlings were such well known varieties as Marshall Field, Mrs. Potter Palmer, Mrs. Higinbotham, Her Majesty and Harlowarden. Mr. Hartshorne was president of the American Carnation Society in 1904-5. He served as president of the Chicago Florists' Club in 1899.

Mr. Hartshorne was born in Shropshire, England, in 1869. He came to America in 1888. He married the daughter of John C. Ure, of Chicago, who with five children survives him. The funeral on Wednesday, August 8, was attended by a very large num-

ber of the florists of Chicago and vicinity.

[REDACTED]

Abram Block.

Abram Block, the most extensive fruit grower of Santa Clara valley, passed away this week. He was a native of Bohemia and was 70 years of age. For many years he was a member of the State Board of Horticulture. He came to America at the age of 14, and in 1878 bought a fruit farm near the town of Santa Clara, since which time his business of fruit growing and packing has steadily increased.

[REDACTED]

THE COLUMBUS FLORISTS' CLUB.

Last Tuesday evening the first regular meeting for August was held in our rooms at Iroquois Hall. President Stephens was in the chair, and Secretary McKellar was on hand promptly, as always. After the usual routine business had been disposed of, the evening was devoted to arranging plans for the club's attendance at Dayton, a matter in which all our members take the greatest interest. The committee in charge of this matter, consisting of Messrs. Woodrow, McKellar and Faxon, had planned to have special cars, which should be appropriately decorated, carry our members to Dayton. However, it has turned out that our members have individually arranged to go to the convention on different days, as part of their vacations, etc.; so, very reluctantly, the plan of all going together has been given up, and our members will attend as each can arrange. From present indications it looks as if fifty would go from this city.

[REDACTED]

TRICITY FLORISTS' CLUB.

The Tri-City Florists' club met at Fejervary Park, Davenport, Thursday, Aug. 9. President J. T. Temple called the meeting to order. Frank Woelz was elected to membership.

Chrysanthemum culture and Christmas stock, were then taken up. Messrs. Bills, Becker, Boehm, Woelz, Arp, Stapp and John Staack all participated in the lengthy discussion of these subjects. The meeting was considered one of the best ever held so far as information gained was concerned. Henry Gaethge tendered the club an invitation to meet at his place in September which the members accepted, after which they adjourned to the dining room where light refreshments were served.

[REDACTED]

ELBERON HORTICULTURAL SOCIETY.

A meeting of the Elberon Horticultural Society was held on Monday, Aug. 6, a good attendance of the members being present. A letter was read from the Board of Education of Ocean township, thanking the Society for the beautifying of the public school grounds.

Three prizes were awarded at this meeting for a collection of twenty-five varieties of cut flowers, the winners being A. Bauer, J. Kennedy, and A. Greib. W. D. Robertson showed a fine vase of *Gypsophila paniculata*. A. Hall showed a nice table plant. A specimen of *Stanhopea graveolens* was shown from Lakeside Gardens. A bowling match was arranged between the Monmouth Horticultural Society

and the Elberon Horticultural Society to be held on Friday, Aug. 10.

GEORGE MASSON, Sec'y.

[REDACTED]

ST. LOUIS FLORISTS' CLUB.

The St. Louis Florists' Club held its regular meeting at Strassberger Hall, Aug. 9th, with an attendance of twenty-two members.

The transportation committee reported that the Pennsylvania railroad would be the most direct route from St. Louis to Dayton; so those going decided to take the 8.15 P. M. train, Aug. 20, to arrive at Dayton, Tuesday morning, Aug. 21, at 7.20 A. M. There will probably be about twenty-five or thirty from here.

Officers were elected for the ensuing year as follows: Prof. H. C. Irish, president; J. M. Cannon, vice-president; J. J. Beneke, secretary; A. J. Bentzen, treasurer; W. E. Smith, Carl Beyer and Frank Weber, trustees.

[REDACTED]

ROBERT CRAIG.

Our readers will be pleased to look at the latest picture of Robert Craig



of Philadelphia, who will be at the convention, to extend an invitation to the S. A. F. to hold its 1907 meeting in Philadelphia, on behalf of the Florist Club of Philadelphia.

[REDACTED]

PERSONAL.

John White has returned to the position he formerly held with J. W. Conrod, E. Mansfield, Mass.

Frank Elsner, head gardener at the Norcross & Stratton greenhouses, Grafton, Mass., has accepted a position in Needham.

C. W. Ward of Queens, N. Y., was in Boston last Friday, on the way to Lake Sunapee where he expects to take a few weeks' rest.

The Detroit Florists' Club at their annual meeting on August 1st elected William Dilger, president; J. F. Sullivan, secretary; E. A. Scribner, vice-president; W. H. Taepke, treasurer; William Brown, librarian. About fifty members will attend the Dayton convention.

ANNOUNCEMENT. The two Philadelphia establishments conducting a wholesale commission and supply business under the title of

**SAMUEL S. PENNOCK and
THE PHILADELPHIA WHOLESALE FLOWER MARKET**

have been consolidated and will henceforth conduct their operations
under the incorporated title of

THE S. S. PENNOCK-MEEHAN CO.

their headquarters being located in the

S. S. PENNOCK BUILDING, 1608-1618 Ludlow St., PHILADELPHIA.

In making this announcement the new Company desires to call attention to the following solid grounds on which it bases its claims to public patronage:

1. **Facilities:** The largest and most modernly equipped of any wholesale florist's establishment in the world. Centrally located, and having at its command an experience of twenty years in knowing how to make the best of these facilities for the benefit of customers.

2. **Organization:** The next most important consideration—developed on practical lines through years of experience—has been brought by selection and elimination as near perfection as possible, and constant vigilance is the watchword in this department, to the end that each employee may by fair but firm treatment show the best that he is capable of, not only for his own sake but for that of his employer and the public—the interests of all being in the long run identical.

3. **Service:** Great stress is laid on accurate filling and delivery of orders. Telegrams, 'phones, messages of all kinds, verbal or written, receive the careful attention of competent heads of departments so that no one need feel any hesitation in forwarding hurry up orders. The organization and service is so complete that it is almost impossible for any hitch to occur.

4. **Stock:** This of course governs everything. If the goods are not there, no sales can be made. The Pennock record in this connection—of always having everything and the best of everything—speaks for itself; the Flower Market or Meehan record—which has behind it some of the best growers of this vicinity in addition to careful and shrewd development—also adds its weight.

5. **Quality:** The quality of the stock reaching the Philadelphia market is unexcelled, as the awards at various competitions in New York, Boston, Chicago, and other centers amply attest. In many lines our growers lead the world.

6. **Quantity:** The enormous shipments of fine flowers that reach Philadelphia every morning render it possible to fill the most exacting order almost at any hour of the day or time of the year. If a thing is to be had at all, here is the place to find it.

7. **Knowledge:** Last but not least "knowledge." Knowledge of the customer and his wants, gathered from long experience; also a ready and sympathetic willingness to help him out in emergencies; knowledge of what to send and what not to send; this knowledge is the rarest of all and has been a corner stone in the building up of the two great businesses under consideration.

8. **Finally:** The new organization feels that in all the important qualifications: in facilities, in equipment, in quantity, in quality, in knowledge, and in service it is at the forefront of 20th Century enterprise and offers itself confidently to the whole country as the best place, both for the grower to market his products, and the buyer to procure his supply of cut flowers, plants, and florists' supplies of all kinds.

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DURING RECESS



GEORGE ANDERSON.

Snap shot of George Anderson of Philadelphia; rose grower and captain of the Florists' Gun Club—also a howler of renown, a keen one at pool and billiards, sea-lawyer, and the most formidable dissector of kittle points in his community. He is a born tease and very fond of starting discussions on abstruse subjects. He has raised a large family and incidentally collected a big reserve of the root of all evil. Although he pretends otherwise he is suspected of being kindly disposed to his fellow humans. Many instances are on record which repudiate his cynical pose. But his fondness for licking people with the rough side of his tongue has helped to keep up the delusion for so these many years. But one thing all the trade agree on. He is their doctor when anything goes wrong with the houses or boilers or piping. If any one can locate the trouble it is George Anderson. And he has never yet failed to respond to a call. A born mechanic although bred a gardener in Scotland and graduated from the commercial establishment of the late Robert Buist at Elmwood, Philadelphia, away back in the seventies.

SPRINGFIELD (O.) FLORISTS' CLUB.

About forty were present at the picnic of the Florists' Club held at Eichholz park on August 1st. The feature of the day was the baseball games between the north side and the south side, the former winning both games by scores of 8 to 7 and 21 to 4. The batteries were: North, Snyder and Schmidt; South, Good and Welsh.



DR. GEORGE GOEBEL.

Dr. Goebel has been prominent in horticultural circles in Philadelphia for many years. He not only soothes the aching brow, saws off useless limbs, and trims off all bothersome excrescences, but helps the various members of the craft into and out of the world. When there is nothing doing in these lines he is perfectly willing to go play with the horticultural people whether it be at shooting, bowling, yachting, fishing, or any other sport. He is a good doctor, a good shot, a good bowler, a good square, healthy, open-air gentleman, large of stature and big every way. Everybody likes him; everybody runs to him be it teeth or "tummy." When it's sport everything brightens up the minute the "Doc" appears. We are glad to be able to present a characteristic picture of him taken during the recent shooting tournament of the Eastern Association at the Florists' grounds in Philadelphia.

FLORAL CARNIVALS.

Canisteo, N. Y., held a successful show on August 8 and 9.

Zanesville, O., Town Improvement Association's display on August 8 was beautiful and profitable.

Livingston, N. Y., Nunda Floral Society's event on August 9 and 10 was the most elaborate yet undertaken.

The New London Horticultural Society (Conn.) will probably abandon their summer show on account of the continuous wet weather which has made it impossible for the gardeners to do justice to themselves.

Harry F. Hall, B. S., has resigned the position of assistant horticulturist at the New Hampshire College, to accept a position at Woburn, Mass.

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Our Exhibit at Dayton Speaks for Itself

The largest and most artistic display of novelties and staples we have ever shown. Our Mr. Paul Berkowitz with an efficient corps of salesmen and decorators will be on hand to greet visitors.

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CALIFORNIA NOTES.

The first full carload of tomatoes ever shipped East from the San Joaquin valley was sent out this week, contracted by the railroad to be delivered at Chicago inside of eight days. The car contained 750 crates of thirty pounds each, supplied by forty-three growers, and a good price was paid for them. There is a great demand at present for vegetables and fruit throughout the East, and as high as \$1,900 has been paid for a carload of plums shipped from Lodi. The growers are reaping a rich harvest this season. Peaches are selling from \$35 to \$45 a ton, and Bartlett pears bring as high as \$60 a ton. Not many peaches will be shipped from San Joaquin valley, as the canneries are buying every pound they can secure. The crop of grapes will be large, and fancy prices will be secured, as wine grapes are in demand now at \$24 to \$30 a ton.

HORTICULTURE'S Pacific Coast correspondent is in receipt of a very attractive price list, now being issued and sent to the trade by Grower H. Plath, proprietor of "The Ferneries," formerly Union Nursery of Ocean View, a suburb of San Francisco. This hustling tradesman, California's vice-president of the Society of American Florists and Ornamental Horticulturists, is working up a large stock of young ferns for the fall trade, as he is expecting increased demand on account of April's destructive fire. Ferns for fern dishes have been used here of late more and more each year, the increase being so great that Mr. Plath has not been able to grow sufficient to fill all orders.

In these turbulent times in San Francisco the Pacific Coast Horticultural Society's meetings are held roundabout in the city homes of the various members, reminding me of my kiddish days on the farm back in Ohio when the district preacher took his big Sunday chicken dinners roundabout at the various homes of his parishioners. Since last week's report, the society's monthly meeting was held far out in Western Addition at the home of its president, J. W. Bagge. But henceforth it will be better, for at this meeting a communication from the Park Commissioners

WHO WANTS THEM!

WE have plunged in the open ground eight thousand two-year-old roses, all on own roots, now in 4 and 5 inch pots. They are in a semi-dormant condition—just right for planting in the open ground in August and September, or for conservatory and greenhouse planting for quick results. While they last we will close them out at the extremely low price of

\$15.00 per hundred; 25 or more at the 100 rate; \$125.00 per one thousand

No charge for packing. Our selection of varieties, not less than two of a kind where purchaser has a preference, we will follow same as near as possible. They are worth twice as much as we ask for them; they have strong working roots, and can be depended upon to produce the goods.

The collection embraces three hundred varieties of Teas, Hybrid Teas and Hybrid Perpetuals

Including such new and rare sorts as La Detroit, Ideal, Primrose, President Roosevelt, Admiral Schley, Etile De France, Intensity, Florence Pemberton, Olivia, Wellesley, Rosalind Orr English, Mildred Grant, and Richmond; these varieties cannot be had, at the present time, elsewhere in this country or Europe; the collection also includes such standard sorts as Souvenir De Weottou, Clotilde Soupert, Madame Abel Chateaur, Helen Gould, Muriel Graham, Gorge Lyonnaise, Merrille de Lyon, Crimson Rambler, Pink La France, Bon Silene, Antoine Verdier, Red Souperet, Belle Siebrecht, Ulrich Brunner, etc.

Send us your order to-day; Satisfaction guaranteed. Ask for catalogue—it is free. Address

THE DINGEE & CONARD Co., West Grove, Pa.
ESTABLISHED 1850 70 GREENHOUSES

was read tendering the society for meeting purposes the picturesque ivy-covered Park Lodge in Golden Gate Park. It goes without saying that John McLaren, superintendent of Golden Gate Park, a member of the society, is responsible for all this good fortune.

Another thankfully received communication was read at this meeting. It was from President P. J. Hanswirth of the Chicago Florists' Club, and with it was a draft enclosure for \$150 for distribution to florists and growers in need of help through the recent calamity. This is the second Chicago club contribution that has followed its original remittance of much larger amount.

D. Raymond, an old-time horticulturist, is manager of the Garden City Pottery of San Jose. This enterprise has recently enlarged the capacity of its plant by installing two electric motors and is now supplying almost the entire Pacific Coast with flower pots. A considerable price reduction has been made, which is of great benefit to growers, as heretofore flower pots have been a great deal higher here than in the east.

Professor W. L. Jepson of the botany department of the University of California, who has been abroad for a year visiting the botanical gardens in all the European capitals and conferring with the leading European authorities on botany, returned to the university

this week. He promises the trade paper correspondents some interesting matter as soon as he gets rested and formulates his material for report to the university and the department at Washington.

What has always been an eye sore to beautiful Oakland and its picturesque Lake Merritt is the marsh land bordering on the lake between Tenth and Twelfth streets. But the intellectual relish of Oakland is in the ascendant, for this week at a meeting of Oakland's Merchants Exchange the project of reclaiming this marsh land was indorsed, and at the following evening meeting of the city aldermen this indorsement was concurred in for immediate action.

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My own strain, selected from only exhibition flowers
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Seed of above strain, \$7.00 per 100
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THE BEST IN EXISTENCE

I shall continue the Pansy business on exactly the same standard as carried on by my father, the late Denys Zirngiebel.

GIANT MARKET "The Variety for the Million" Trade Packet, 2000 seeds, \$1.00	Augustus Zirngiebel NEEDHAM, MASS.	GIANT FANCY The Ne Plus Ultra in Pansies Trade Packet, 600 seeds, \$1.00
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Also on hand
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It is ahead of them all.
Having ordered a large quantity I can fill your orders at short notice.
Price \$25 per 100 \$200 per 1000
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5-in. pots	35c.
6-in. pots	50c.
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6000 of the choicest on hand at the following lowest cash prices:
Excelsa, 5 1/2-in. pots, 3-4 tiers, 10 to 14 in. high, 50 to 60 cts., 6-in. pots, 4-6 tiers, 16 to 22 in. high, \$.75, \$1.00 to \$1.25 each.
Compacta Robusta, very fine, 6-7 in. pots, \$1.25, \$1.50, \$1.75, \$2.00 each.
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Kentia Forsteriana and Belmoreana, 6-in., 30 to 40 in. high, 4 years old, \$1.00, \$1.25 to \$1.50; made up, \$2.00 each.
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1 doz., \$2.00; 100, \$10.00; 1000, \$75.00;
5,000 or more at \$60.00 per 1,000
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Lady Campbell, Extra Strong, Healthy Plants. Field grown from March-struck Cuttings. \$5.00 per 100. Cash with order.
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100,000 2 yr. seedlings, 6 to 12 in., \$10.00 pr. 1000.
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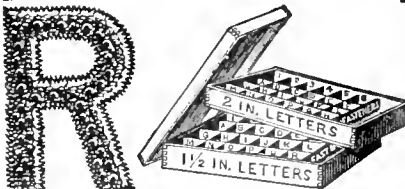
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	CHICAGO August 6	ST. LOUIS August 13	PHILA. August 13	BOSTON August 16
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Am. Beauty and Edgely Fan. & Sp.	15.00 to 25.00	15.00 to 20.00	25.00 to	10.00 to 25.00
" Extra.....	8.00 to 10.00	10.00 to 12.50	15.00 to 18.00	8.00 to 12.00
" No. 1.....	5.00 to 6.00	6.00 to 8.00	8.00 to 10.00	4.00 to 6.00
" Lower grades.....	2.00 to 4.00	3.00 to 5.00	5.00 to .....	.50 to 2.00
Bride & 'Maid-Fau. & Sp.	5.00 to 6.00	3.00 to 4.00	4.00 to 6.00	3.00 to 4.00
" Ordinary.....	2.00 to 4.00	..... to 2.00	1.50 to 2.00	.50 to 2.00
Golden Gate, Fancy.....	5.00 to 6.00	3.00 to 4.00	4.00 to 6.00	3.00 to 4.00
" Ordinary.....	2.00 to 4.00	..... to 2.00	1.50 to 2.00	.50 to 1.00
Liberty, Fancy.....	5.00 to 6.00	3.00 to 5.00	0.00 to 8.00	4.00 to 8.00
" Ordinary.....	2.00 to 4.00	..... to 2.00	2.00 to 4.00	.50 to 3.00
Richmond, Fancy.....	5.00 to 6.00	3.00 to 5.00	6.00 to 8.00	4.00 to 8.00
" Ordinary.....	2.00 to 4.00	..... to 2.00	2.00 to 4.00	.50 to 3.00
Kaiserliu, Carnot, Chatenay, Fancy.	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	4.00 to 8.00
" Ordinary.....	2.00 to 4.00	3.00 to 4.00	2.00 to 4.00	.50 to 3.00
CARNATIONS				
Fancy.....	1.50 to 2.00	1.00 to 1.50	1.50 to 2.50	1.00 to 1.50
Ordinary.....	.75 to 1.00	.50 to 1.00	1.00 to 1.60	.50 to .75
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to .....	..... to	30.00 to 50.00
Lilies.....	0.00 to 5.00	..... to .....	..... to 12.00	5.00 to 8.00
Gladioli.....	2.00 to 3.00	1.00 to 1.50	2.00 to 3.00	1.00 to 4.00
Asters.....	.75 to 2.00	1.50 to 2.00	.25 to 1.50	.30 to .75
Lily of the Valley.....	2.00 to 3.00	..... to 3.00	2.00 to 4.00	2.00 to 4.00
Sweet Peas.....	.50 to .75	.10 to .15	..... to .50	.10 to .50
Mignonette.....	..... to .....	..... to	1.00 to .....	..... to 1.00
Adiantum Cuneatum.....	.50 to 1.00	1.00 to 1.25	1.00 to .....	.75 to 1.00
" Croweanum.....	.75 to 1.00	..... to	1.50 to .....	..... to 1.50
Smilax.....	10.00 to 15.00	..... to 12.50	15.00 to	12.00 to 16.00
Asparagus Plumosus, strings.....	25.00 to 30.00	25.00 to 40.00	35.00 to 50.00 to 50.00
" " & Sprenger bunches	25.00 to 30.00	25.00 to 50.00	35.00 to 50.00	20.00 to 35.00

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Roses and Carnations
A Specialty.....

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A discount for cash with order.
GUTTMAN & WEBER, 43 West 28th St., N. Y.

Cut Flower Market Reports

BOSTON There is very little business being done. Roses are especially hard to move whether of the fifty cent or twenty dollar grade. Carnations are practically out of the market and their withdrawal has helped the aster demand, particularly the white sorts, but the latter are difficult to find in acceptable quality, the wet weather having damaged the flowers badly. Sweet peas are also worthless for the same reason. Gladioli are being received in great quantity and variety and sell pretty well, the old Shakespeare holding the lead in the buyer's eye. The usual amount of lily of the valley is coming in and has the normal summer call.

BUFFALO The past week the market found select stock of Beauties and teas a scarce article. A little stirring in the floral work line called for considerable stock. Lilies, light colored gladioli and asters were among the stock which was in demand. Carnations are small and few to be seen; select asters sell readily while ordinary are too plentiful; the same may be said of gladioli. Peas are of poor quality and lily of the valley is selling much better; adiantum and other greens plentiful.

COLUMBUS There has been very little change in trade since a week ago; it is as dull as it will be this summer. There is plenty of stock, such as it is, which is not saying much. Asters are a flood. There are a few roses in variety, a few fair American Beauties, some good gladioli and carnations to make up the market. The seedsmen are just beginning to receive the advance inquiries and first orders of the autumn bulb trade. The weather continues pleasant but very hot.

LOUISVILLE Business conditions the previous week were very good in the early part. Some carnations are seen but they are very poor. Roses and asters have the lead and are of good quality. Other stock is obtainable in satisfactory quantity.

NEW YORK An abundance of roses many of which might have with wisdom been kept at home, a scarcity of carnations, loads of asters that would have filled the carnation's place very acceptably had the rain stayed away, heaps of garden bloom in numberless sorts—this is about the story of the wholesale market at present. Of buyers, there are not enough to



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Hardy Cut Ferns
 Also Wholesale Dealer in
Christmas Trees and Baled Spruce for Cemetery Use
BOUQUET GREEN, SPHAGNUM MOSS, &c., &c.

make one good-sized bill if all were added together.

PHILADELPHIA Market as usual in summer. Asters and roses not quite so plenty. Roses poor in quality. Practically no carnations, and poor. Plenty lily of the valley and good. Gladioli good and sell fairly well; market generally overloaded with the poorer grades of the latter.

A PHILADELPHIA CONSOLIDATION.

The event of the week in Philadelphia is the announcement of the consolidation of two important wholesale houses, namely, Samuel S. Pennock and The Philadelphia Wholesale Flower Market. The former is well known as the leading commission house of Philadelphia and the latter is also well known as the great combination of growers which a few years ago formed a company whereby to market its products independent of the commission man and without having to incur the expense of a daily courier. The idea has worked well in other cities; but for various reasons it ran up against a hard snag in Philadelphia, and after a few years the venture developed into a big commission house, although still bearing the name of "market." Through all vicissitudes the manager, Chas. E. Meehan, kept a steady eye on the wheel and at last worked the craft into a safe and profitable harbor; after which, with great shrewdness, he set about becoming owner. This he achieved, and as a further step, combined with Mr. Pennock, the biggest of the Philadelphia wholesalers, with a view to consolidation. The outcome is the formation of the S. S. Pennock-Meehan Co., chartered under the corporation laws of the State of Pennsylvania with a capital of sixty thousand dollars, to do a general commission and supply business. The officers of the company are: Samuel S. Pennock, president; Chas. E. Meehan, vice-president; Edwin J. Fancourt, secretary; Ralph E. Faust, treasurer. The headquarters of the company will be in the S. S. Pennock

Building, 1608-1618 Ludlow street, which is probably the largest and best equipped establishment in the world for doing a purely wholesale flower and supply business. The move has been kept exceedingly quiet and the present announcement will be news to every one in the trade outside of the two principals. That it is a good move no one will deny. It looks like a winning combination whichever way one looks at it. And one of the strongest features is the unexampled facilities of the Pennock building with all its recent developments and improvements.

BUSINESS CHANGES.

M. L. Belcher of South Weymouth has purchased the business of R. E. Moir of Whitman, Mass.

James Burns has purchased the greenhouse property of Mrs. C. F. Gibbs at St. Johnsbury, Vt.

Welch Brothers will move their place of business from 15 Province street to 226 Devonshire street, Boston, on Oct. 1. They will occupy the first floor and basement, each having over 6000 square feet, making a total of 12,000 square feet—the largest wholesale florist establishment in the country. It will be fitted up with an extensive cold storage system.

Fancy Late Asters Fine Valley All Greens in Variety

WILLIAM J. BAKER
 WHOLESALE FLORIST
1432 South Penn Square
PHILADELPHIA - PA.

NEW CROP AND PERFECT STOCK.

Green Galax, Fancy and Dagger Ferns, Leucothoe Sprays. All fresh from nature's finest patch, will be ready for shipment September the 1st.
 Galax 75c per 1000
 Fancy and Dagger Ferns, \$1.00 per 1000
 Leucothoe Sprays.....\$3.50 per 1000
 Discount on large orders. Terms: Cash or good reference with orders from strangers. Send us your orders and get what you want, and get it quick.
RAY BROS., ELK PARK, N. C.

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Wholesale Commission Florist
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FLORIST
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Wholesale Commission Florists
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BROOKLYN, N. Y.

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Telephone 2921 Madison Square.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Aug. 11 1906	First Half of Week beginning Aug. 13 1906		Last Half of Week ending Aug. 11 1906	First Half of Week beginning Aug. 13 1906
Roses			Carnations, Fancy	1.00 to 2.00	1.00 to 2.00
Am. Beauty and Edgeley fan and sp.	20.00 to 25.00	20.00 to 25.00	Carnations, Ordinary.....	.50 to .75	.50 to .75
" extra.....	5.00 to 12.00	8.00 to 12.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
" No. 1.....	4.00 to 6.00	4.00 to 6.00	Lilies	8.00 to 10.00	8.00 to 10.00
" Lower grades.....	1.00 to 2.00	1.00 to 2.00	Gladioli.....	.50 to 1.00	.50 to 1.00
Bride & 'Maid, fan and sp.	2.00 to 4.00	2.00 to 4.00	Asters.....	.15 to 1.00	.15 to 1.00
" Ordinary.....	.25 to 1.00	.25 to 1.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Golden Gate, fancy.....	3.00 to 4.00	3.00 to 4.00	Sweet Peas, bunches	1.00 to 4.00	1.00 to 4.00
" ordinary.....	.25 to 2.00	.25 to 2.00	Pignonette.....	..... to .50	..... to .50
Liberty, fancy.....	4.00 to 6.00	4.00 to 6.00	Adiantum Cuneatum.....	.25 to .50	.25 to .50
" ordinary.....	.25 to 2.00	.25 to 2.00	" Crownatum.....	1.00 to 1.50	1.00 to 1.50
Richmond, fancy.....	6.00 to 8.00	6.00 to 8.00	Smilax	6.00 to 8.00	6.00 to 8.00
" ordinary.....	.25 to 2.00	.25 to 2.00	Asparagus Plumosus	10.00 to 25.00	10.00 to 25.00
Kaiserrn, Carnot, Chateau, fancy.....	1.00 to 6.00	1.00 to 6.00	" " & Sprenger, bunches	15.00 to 35.00	15.00 to 35.00
" ordinary.....	.25 to 2.00	.25 to 2.00			

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Commission Merchants in Cut Flowers
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Wholesale Florist
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Furnish best stock at fair prices all the year round Send for quotations on fall orders
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A Reliable Place to Consign to or order from
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Wholesale Florist
Consignments received, sold well and returns made promptly.
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NEW CROP**

FANCY FERNS

\$1.00 per 1000

GALAX \$1.25 per 1000

Discount on Larger Orders

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Michigan Cut Flower Exchange

WM. DILGER
Manager

Send for Cur Weekly Price List on Cut Flowers.

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Best Facilities for Supplying you at Lowest
Daily Market Prices

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Glassware Decorative Greens and Florists' Requisites.

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BEST LINE IN THE COUNTRY

Do not keep your "I" on firms to see them
grow or to see if they are full grown, but
just glance around at the enterprising
florist supply house with everything new
for the trade. See us at the convention.

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ESTABLISHED 1872

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FADELESS SHEET MOSS

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EVERGREEN,
ALA.

Lilies, Japanese Plants

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And all kinds of Seasonable Flowers

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Give us a trial. We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

Fresh Northern, \$1.00 per 1000.

LYRATA, the best substitute for Smilax, \$7.00 per case.

Headquarters for all **FLORISTS' SUPPLIES.** Wire Designs,
Cut Wire, Letters, Immortelles, Cycas Leaves, Wheat
Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main. 2918.

WHOLESALE FLOWER MARKETS. PER 100. TO DEALERS ONLY.

	CINCINNATI August 14	DETROIT August 6	BUFFALO August 13	PITTSBURG August 13
ROSES				
Am. Beauty and Edgely, Ian and sp.	20.00 to 25.00	15.00 to 25.00	20.00 to 25.00	25.00 to 30.00
" extra.....	15.00 to 20.00	10.00 to 15.00	12.00 to 20.00	20.00 to
" No. 1.....	8.00 to 12.00	6.00 to 8.00	6.00 to 12.00	12.50 to 15.00
" Lower grades.....	4.00 to 6.00	3.00 to 6.00	3.00 to 6.00	3.50 to 5.00
Bride & Maid—Fao. and Sp.....	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	4.00 to 5.00
" Ordinary.....	2.00 to 4.00	2.00 to 4.00	4.00 to 5.00	2.00 to 3.00
Golden Gate, Fancy.....	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	4.00 to 5.00
" Ordinary.....	2.00 to 4.00	2.00 to 4.00	3.00 to 5.00	2.00 to 3.00
Liberty, fancy.....	5.00 to 6.00	5.00 to 6.00	5.00 to 7.00	6.00 to 8.00
" Ordinary.....	3.00 to 4.00	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Richmond, Fancy.....	5.00 to 6.00	5.00 to 6.00	6.00 to 7.00	6.00 to 8.00
" Ordinary.....	3.00 to 4.00	2.00 to 4.00	3.00 to 6.00	3.00 to 4.00
Kaiserin, Carnot, Chatenay, Fancy.....	..... to 6.00	5.00 to 6.00	6.00 to 7.00	8.00 to 12.00
" Ordinary.....	3.00 to 4.00	2.00 to 4.00	3.00 to 6.00	3.00 to 6.00
CARNATIONS				
Fancy.....	1.50 to 2.00	.50 to 1.00	1.50 to 2.00	..... to 2.00
Ordinary.....	.75 to 1.00	..... to .50	.50 to 1.00	.75 to 1.00
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to 100.00	..... to .....	..... to
Lilies.....	10.00 to 12.00	10.00 to 15.00	3.00 to 15.00	12.50 to 13.00
Gladioli.....	2.00 to 4.00	4.00 to 6.00	..... to 2.00	3.00 to 6.00
Asters.....	1.00 to 2.00	.50 to .75	1.00 to .....	.50 to 2.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Sweet Peas.....	.20 to .35	.25 to .35	.15 to .25	.10 to .40
Mignonette.....	..... to .....	..... to	1.00 to 1.50	..... to
Adiantum Cuneatum.....	..... to 1.00	..... to .....	.50 to 1.00	1.25 to 1.50
" Croweannum.....	..... to .....	..... to	1.00 to 1.50	1.25 to 1.50
Smilax.....	10.00 to 12.50	..... to 12.50	..... to 15.00	12.50 to 15.00
Asparagus Plumosus, strings.....	40.00 to 50.00	25.00 to 50.00	25.00 to 35.00	50.00 to
" " & Sprenger, bunches.....	..... to 55.00	25.00 to 35.00	25.00 to 35.00	50.00 to

Geo. A. Sutherland Co.
CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

The KERVAN CO. 20 WEST
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Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leu-
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and Ready Reference Guide. You will
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Asparagus Plumosa Nana and Sprengeri.
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H. W. Vose, Hyde Park, Mass.
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Yokohama Nurseries, 31 Barclay St., N. Y.
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Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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Edwards Folding Box Co., Philadelphia.
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Boston Ferns.
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Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

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A sample 100-lb bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address J. W. Barwell, Blatchford's Calf Meal, Animal and Poultry Foods, Fertilizers, Karbo Dip, Seeds, etc., Waukegan, Ill. Established at Leicester, England, in 1800.

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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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Decorative Evergreens.
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GERANIUMS.

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GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin, N. Y.
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John Lewis Childs, Floral Park, N. Y.
Gladiolus Blooms.
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GLASS.

Boston Plate & Window Glass Co., Boston.
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Glass, French and American "White Rose" brand, Stenzel Glass Co., 2 Hudson St., New York.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square, New York.
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Hitchings & Co., 1170 Broadway, New York.
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A. T. Stearns Lumber Co., Neponset, Boston.
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Kling Construction Co., N. Tonawanda, N. Y.
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J. C. Moulner Co., 117 East Blackhawk St., Chicago, Ill.
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GREENHOUSE BUILDING MATERIAL—Continued.

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Chas. H. Manley, Premier Mfg. Works, St. Johns, Mich.
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HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston, Mass.
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The Kervan Co., 20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 and 40 Miami Ave., Detroit, Mich., Wm. Dillger, Mgr. Fancy Ferns.
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E. A. Beaven, Evergreen, Ala. Fadeless Sheet Moss; Lyrata.
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L. B. Brague, Hinsdale, Mass. Hardy Cut Ferns.
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HARDY PERENNIALS.

M. H. Walsh, Woods Hole, Mass.
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Hitchings & Co., 1170 Broadway, New York.
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John A. Scollay, 73 & 75 Myrtle Ave., Brooklyn, N. Y.
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The A. T. Stearns Lumber Co., Neponset, Mass.
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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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HYDRANGEAS.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

INSECTICIDES.

Hammond's Paint & S. S. Works, Fishkill, N. Y.
Hortcum.
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Yokohama Nurseries, 31 Barclay St., N. Y.
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KENTIAS.

Godfrey Aschmann, 1012 Ontario St., Philadelphia.
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KOSTER'S BLUE SPRUCE.

J. H. Troy, New Rochelle, N. Y.
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LANDSCAPE ARTIST.

William Plumb, 1133 Broadway, New York.
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Alex. McConnell, New York.
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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LILIUM HARRISII.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

MASTICA.

F. O. Pierce Co., 170 Fulton St., New York.
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Joseph Brock & Sons, 47-54 N. Market St., Boston.
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MUSHROOM SPAWN.

Cochran Mushroom & Spawm Co., 911 Chemical Bldg., St. Louis, Mo.
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Johnson Seed Co., 217 Market St., Phila.

NARCISSI.

Warnaar & Co., Sassenheim, Holland.
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John Waterer & Sons, Ltd., American Nursery, Bagsbot, England.
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ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Carrillo & Baldwin, Secaucus, N. J.
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PALMS.

A. Leuthy & Co., Roslindale, Mass.
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PANSY SEED.

Johnson Seed Company, Philadelphia, Pa.
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H. F. Mitchell Co., 1018 Market St., Phila.
Pansy and Cyclamen Seed.
Augustus Zingel, Needham, Mass.
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PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PEONIES.

Gilbert H. Wild, Sarcoxie, Mo.
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Warnaar & Co., Sassenheim, Holland.
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H. A. Dreer, Philadelphia.
Herbaceous Peonies.
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Bobbink & Atkins, Rutherford, N. J.
Peony Roots for September Delivery.
Fine collection of Best Peonies. Complete Peony and Phlox Manuals, 25 cents each. C. S. Harrison's Select Nursery, York, Nebr.

POINSETTIAS.

S. N. Pentecost, Cleveland, O.
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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Primula Obo, Grandiflora, 4 in. pots. \$6 per 100, Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

PUTTY.

Benj. Hammond, Fishkill on Hudson, N. Y.
Twemlow's Old English Glazing Putty.
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RHODODENDRONS.

John Waterer & Sons, Ltd., American
Nursery, Bagshot, Eng.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pye, Upper Nyack, N. Y.
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Lawrence Cotter, Castle Grove Green-
houses, Danville, Pa.
Am. Beauty, Bride, Bridesmaid Plants.

American Beauties, 2-in., \$55.00; 3-in.,
\$80.00 1000. Cash. J. Henry Bartram,
Lansdowne, Pa.

Roses, Baby Rambler, the strongest dormant
stock in the country, \$25.00 per 100;
2 1-2 in. pot plants, \$7.00 per 100, \$65.00
per 1000. Brown Bros. Co., Rochester,
N. Y.

1000 plants grafted Maids, 3 inch pots,
fine stock, 2000 plants Richmond, own
roofs, 3 inch pots, very fine plants. Price
\$10.00 per hundred, while they last. Cash
with order. Robert Simpson, Clifton, N. J.

SEEDS.

T. J. Grey & Co., 32 So. Market St.
Boston, Mass.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co.,
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R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
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A. T. Boddington, 342 W. 14th St., N. Y.
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James Vick's Sons, Rochester, N. Y.
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W. W. Rawson & Co., 5 Union St., Boston.
Vegetable Seeds.

Aut. C. Zvolanek, Round Brook, N. J.
Christmas Flowering Sweet Pea Seed.

Conrad Appel, Darmstadt, Germany, Es-
ab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O.
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SIEVES AND SCREENS.

Hub Wire Works, 13 Devonshire St., Boston.
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SMILAX.

J. C. Schmidt Co., Bristol, Pa.
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SPHAGNUM MOSS.

C. W. Brownell & Co., Walden, N. Y.
Peat, Moss and Silver Sand.
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Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

SPIRAEA.

Warnaar & Co., Sassenheim, Holland.
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STEAM TRAP.

E. Hlppard, Youngstown, O.
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STEVIAS.

Stevia serrata, true, winter blooming,
strong bushy, ready to ship, 3 1-2 in. pots,
\$5.00 per 100; \$45.00 per 1000. Asparagus
Sprengerii, 2 inch, very strong, \$2.50 per
100; \$20.00 per 1000. Dean Ferris, Pecks-
kill, N. Y.

STRAWBERRY PLANTS.

Wilfrid Wheeler, Concord, Mass.
Pot Grown.
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VEGETABLE PLANTS.

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Hitchings & Co., 1170 Broadway, N. Y.
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Weathered Co., 46 and 48 Marlon St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.
J. C. Moulner Co., 421 Hawthorne Ave.,
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Violet, Gov. Herrick.
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J. C. Schmidt Co., Bristol, Pa.
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William Sim, Cliftondale, Mass.
Princess of Wales.

WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

N. F. McCarthy & Co., 84 Hawley St.,
Boston.
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George A. Sutherland Co., 34 Hawley St.,
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Welch Bros., 15 Province St., Boston.
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Buffalo.

Wm. F. Kasting, 383-87 Ellicott St., Buf-
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J. A. Budlong, 37 Randolph St., Chicago.
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Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.

Detroit.

Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Dillger, mgr.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Gutman, 43 West 28th St.
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E. C. Horan, 55 West 28th St., New York.
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Philip F. Kessler, 55 W. 26th St., New
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Julius Lang, 53 West 30th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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A. Moltz, 55-57 W. 26th St., New York.
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John I. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Hicks & Crawbuck, Inc., 76 and 78 Court
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S. S. Pennock, 1612-18 Ludlow St., Phila-
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Edward Reid, 1526 Ranstead St., Philadel-
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J. B. Murdoch & Co., 545 Liberty St.,
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Mineralized Rubber Co., 18 Cliff St.,
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M. T. Twomey, Roslindale, Mass.
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CARNATIONS, FIELD GROWN.

August Gaedeke & Co., Nashua, N. H.
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The H. Weber & Sons Co., Oakland, Md.
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Holly-Castle Co., 170 Summer St., Boston.
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R. & J. Farquhar & Co., 6 & 7 So. Market
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FLOWER POTS.

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GIANT CYCLAMEN.

O. V. Zangen, Hoboken, N. J.
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H. Frank Darrow, 26 Barclay St.,
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James McMann, 42 W. 28th St., New York.
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TORY.

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S. S. Pennock, Philadelphia, Pa.
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VIOLETS, LADY CAMPBELL.

Malcolm Orr, N. Saugus, Mass.
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WHOLESALE MARKET CONSOLI-
DATION.

The S. S. Pennock-Meehan Co., 1608-18
Ludlow St., Phila.
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WOOD LABELS FOR NURSERY-
MEN AND FLORISTS.

Dayton Fruit Tree Label Co., Dayton, O.
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SEED TRADE TOPICS

Referring to the article in the issue of Aug. 11th, and particularly to that part dealing with peas, a litter further light may be shed on the subject. Growers are often asked about the origin of new varieties of peas, and as a general proposition it may be said that new varieties are the result of hybridization, though on rare occasions a promising sport has been adopted which has proven superior to its parent. Again an old variety has been so improved by intelligent selection as to be scarcely recognized, so changed is it from the original stock.

The tendency to revert to the original types is always a marked characteristic, whatever may have been the origin of the variety. A case in point is the Alaska. This pea is a sport from the old Kentish Invincible, and has been, as is generally known, a vast improvement on its parent, and although regarded as one of the easiest peas to keep true to type, this can only be accomplished by the most diligent and painstaking care. Despite all of this care however, this variety under certain conditions of soil and climate, will grow entirely away from its true type, and make determined efforts to be like its parent. During the present summer the writer has seen many fields of Alaskas growing under varied conditions and has seen widely varying results from the same seed stock. In some instances the true type was well maintained, while in others many variations were noticeable, from a slight difference in height, up to two feet, and from a hardly noticeable difference in time of maturing up to a week or ten days, and there were many minor divergencies. Some fields grown from seed known or suspected to be degenerates, were so bad, that not fifty per cent. of the crop was available for canning, while it was absolutely worthless as seed.

As in the case of varieties bred up from sports, so with hybrids. They show the same vagaries and the same tendencies to depart from recognized types. This trait has been so marked at times, that many promising new specimens have had to be abandoned because it was found impossible to maintain any fixed type. However it may be well to caution growers against resting too confidently in the belief that they can always find a defence for any neglect to keep their stocks as pure and true as intelligent painstaking care can make them, while those who do any less than this will have good cause for anxiety. The very

best stocks now procurable can be made better, and there is a present and growing demand for the best. Canners and seedsmen however, are like the gentleman from Missouri, they must be "shown." The mere claim of superiority will not suffice. This fact must be fully comprehended by all growers and dealers, for if they do not make good their claims, they cannot hold the confidence of their customers, and without this confidence they will soon have no customers. "I am holier than thou" will not answer. Let them understand that the buyer of seeds has some rights they are bound to consider, while the buyer should be willing to pay a fair price for good seed, and not ask the careful conscientious grower to meet the price of wild oat goods.

There have been no important new developments in crop conditions. Weather has been generally favorable for the harvesting of peas and the yields have been slightly better than looked for, though the shortage will undoubtedly be heavy. No important changes are reported affecting beans, corn, vine seeds and other crops excepting that very unfavorable reports are given about the onion seed crops in Connecticut. However the quantity of Connecticut grown onion seed compared to the total is as one to a hundred.

MARKET FOR AMERICAN SEEDS.

Consul Maxwell Blake writes from Funchal that during the first half of this year the heavy rains and unusual cold weather destroyed certain Madeira Island crops and seriously threatened the maturity of others.

The low temperature resisted the efforts of the seeds even as late as May, a month when generally the soil is very warm. The potato crop was practically destroyed, beans also rotted in the soil, and the sweet potato, perhaps the most essential article of food in the diet of the peasant, has been very greatly damaged. All seeds for next year's crops will, as a consequence, be short of the demand and thus very much dearer. Here is offered a splendid opportunity for the market of American seeds, as it is generally admitted that the seeds of our dryer climate have never failed of good results whenever they have been used in Madeira. Seeds are admitted duty free. There is, however, a small octroi tax. [The Funchal dealers in seeds are named by the consul, and the names can be secured from the Bureau of Manufactures. Correspondence with them should be in Portuguese.]

THEY ALL SAY

Anchor Greenhouse Hose

is the "best they ever used." Try it and you will say the same.

MINERALIZED RUBBER CO., 18 Cliff St., New York

A NEW FIBRE PLANT.

Consul F. W. Goding, of Newcastle, reports successful experiments with fiber plants, hitherto neglected in Australia. He writes:

Queensland is particularly rich in these, one called by the aboriginals "boorgay" being so tenacious that if the leaf is simply twisted into a rope it will bear the strain of several hundredweight. It is now found that there is growing around Brisbane a fiber plant called by botanists "murva" that will yield fiber of great value. Major Boyd, of the agricultural department, retted some "murva" leaves and sent a sample of the fiber to a rope making firm in Germany for test, and these manufacturers are now prepared to purchase it at \$175 to \$200 per ton. This plant, with its tall, mottled leaves, now growing wild or in the gardens of Brisbane as an ornamental pot plant, can very easily be cultivated. It can be propagated by cutting of the leaves and grows quickly. It can be mown down like lucerne, springing up again vigorously, ready for the next crop. The average yield is at least 5 tons per acre, and if the cost of planting, mowing, retting, and machining reached 50 per cent of the market value of the fiber obtained, nearly \$500 per acre might be netted. To start such a new industry may require considerable courage, but the risk of loss would be trifling and the profits worth while.

Arthur T. Boddington has been appointed the sole agent in the United States and Canada for the Edwards Cyaniding Machine, manufactured in England. This simple contrivance makes the use of cyanic acid gas possible, without the usual dangers which prevent its general use. Mr. Boddington will place this machine on the market immediately.

QUALITY SEED BULBS PLANTS
 SEND FOR CATALOGUE
ARTHUR T. BODDINGTON
 342 West 14th St., New York.

THOS. J. GREY & CO.

Fresh Flower, Farm and Garden Seeds, New Mushroom Spawn. Extra quality - French, Japan and Dutch Bulbs. A full line of Agricultural Machinery and Repairs

32 South Market St., Boston
 SEND FOR CATALOGUE

THE CHOICEST STRAINS OF STOCKS
 Including

CINERARIA, CALCEOLARIA, CYCLAMEN, PANSY, PETUNIA, etc.
 can be had from

JAMES VICK'S SONS,
 Rochester, N. Y.

Cabbage Worms

Killed by lightly dusting with **HAMMOND'S SLUG SHOT**
 For Pamphlet write to Fishkill-on-Hudson, N. Y. Sold by Seedsmen



JOHNSON SEED COMPANY
 217 Market Street

Order NOW. JOHNSON'S HIGH CLASS BULBS

From the leading French, Holland and American Growers.
 Callas, Paper White Grandiflora, Narcissus, White Romans, Freesias, Tulips, Hyacinths, Pure Culture Mushroom Spawn Liliun Harrisii, etc.

Send us your Bulb requirements, we can interest you.
 Headquarters for Prize Winner Pansies and High Grade Flower Seeds.

HERBERT W. JOHNSON of the late firm of Johnson & Stokes, President
PHILADELPHIA, PA.

.. IMPORTANT NOTICE ..

Our Mr. Israel Rosnoskey will attend the Florists' Convention at Dayton, Ohio, where he will be pleased to meet our many customers and friends. Please reserve your Bulb Orders for Special Prices which he will be pleased to quote you. With best wishes, we are
 Yours truly,

HENRY F. MICHELL CO.,
 1018 Market Street, PHILADELPHIA, PA.

My Giant Cyclamen

ARE AHEAD IN GROWTH AND FLOWERS
 Bloodred, Carmine, Pink, Purewhite, White with Carmine Eye.
 Each color separate. Tr. Pkt. \$1.00, 1000 seeds, \$6.00. An even mixture of the above 5 colors, Tr. Pkt. 75c.; 1000 seeds, \$5.00.
Salmon Color
 New, very striking. Tr. Pkt. \$1.00, 1000 seeds, \$15.00.
Silver Leaved New Hybrids
 With semi-double flowers. Tr. Pkt. \$1.00, 1000 seeds, \$10.00.
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 New, the real purewhite and largest in existence. Tr. Pkt. \$1.00; 1000 seeds, \$15.00.
 For larger quantities, Special Quotations
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SOW NOW,

Breck's International Prize Mixed Pansy.

JUST IMPORTED.

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Now Ready

Zirngelbel's Prize Pansy Seeds in trade packages, \$1.00 each. Giant Market, 2000 seeds; Giant Fancy, 600 seeds. Full directions with each package.

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Burpee's Seeds

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Blue List of Wholesale Prices mailed only to those who plant for profit.

Thorburn's Bulbs

Lilium Harrisii Lilium Longiflorum


and all other bulbs for florists. Send us your requirements for special prices.

Cycas Revoluta Stems

from Japan. Sizes and prices on application.

ASPARACUS PLUMOSUS NANUS
 \$3.50 per 1000 seeds.

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MUSHROOM SPAWN
 Fresh Spawn Always on hand.
 WRITE FOR PRICES.
COCHRAN MUSHROOM & SPAWN CO.
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HELLER'S MICE-PROOF SEED CASES.



Send for Circulars.
Heller & Co., Montpelier, O.

STANDARD FLOWER POTS

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

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PRIVATE GARDENERS

WE wish to announce that we have established a department for securing positions for such that require them. Our services are absolutely free. We also wish to establish a complete up to date directory of those who are in employment. In order to accomplish this successfully, we require the assistance of every reader of this paper. If you will kindly send us your name linked with that of your employer, also of those whom you know, we would consider it a great favor.

Please Address **W. W. RAWSON & Co., 5 Union St., BOSTON, MASS.**

GREENHOUSES BUILDING AND PROJECTED.

New.

New Bedford, Mass.—Robert Woodhouse, additions.

Rumford Falls, Me.—Eugene B Davis, one house, 20x100

Additions.

Rockland, Mass.—Alvin Bates.

Clinton, Conn.—Miss Anderson.

St. Johnsbury, Vt.—James Burns.

Pittsfield, Me.—A. J. Loder, one house.

Mansfield, Mass.—W. A. Staples, additions.

Batavia, N. Y.—Gustav Noack, one house, 30x75.

E. Mansfield, Mass.—J. W. Conrod, one house, 50 ft.; one house, 30x147.

Rutherford, N. J.—Julius Roehrs, six houses, each 18x150, Lord & Burnham construction.

INCORPORATED.

The Morris Nursery Co., West Chester, Pa., has been incorporated with capital of \$50,000

Articles of the incorporation of The Real Estate Bureau of Wood, Stubbs & Co., Louisville, Ky., have been filed. The capital is \$500 divided into fifty shares as follows: C. F. Wood, twenty-five shares; W. P. Stubbs, fifteen shares; C. Z. Strunk, five shares; and James E. Wilson, five shares.

A. Schulteis is building a big storage shed for bulbs and plants at College Point, N. Y. There is no more essential adjunct to a large plant growing establishment such as Mr. Schulteis' place than a roomy shed. Who ever saw one of them capacious enough for the handling of Easter plants without inconvenient crowding? They cannot be too big.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR SALE—Five greenhouses containing 5,000 feet of glass, hot water heat, Town water. One acre of land, 10 minutes' walk from depot; 1 minute from electric. Near churches, stores and schools. For particulars write A. F. Leicher, Foxboro, Mass.

FOR SALE OR RENT—Place established twenty years, good local trade; no competition; town six thousand inhabitants. One acre land, greenhouses covering seven thousand feet, with or without stock; 75 sashes, 3x6. Houses heated by two No. 7 Furman steam boilers. A. S. Lamb, Winchendon, Mass.

SITUATION WANTED—As private gardener on place where there is a range of greenhouses. Best of references. Over 7 years in last place. Expert rose grower. Married. Address J. J., care HORTICULTURE.

WANTED—To buy or lease, with privilege of purchase, one or two greenhouses with one acre or more of land. New England preferred. State terms. Address, L. M., care HORTICULTURE, 11 Hamilton Place, Boston, Mass.

WANTED—Young man, 22 to 26, to work in greenhouses; \$55.00 per month. Reply to E. D. B., Office of HORTICULTURE.

WANTED—Young, single man for fruit range, Palms and Violet Houses. Wages \$50.00. Reply to E. J. C., Office of HORTICULTURE.

WANTED—Young single man for Greenhouse, who understands grapes. Wages \$35.00 and board. Reply to R. M. C., Office of HORTICULTURE.

WANTED—Assistant for rose houses, with one or two years' experience. Robert Miller, rose grower, East Brookfield, Mass.

<p>FARTHER NORTH. "It is the lightest and strongest house imaginable." HALL & ROBINSON, Montreal, P. Q.</p>	<p>NORTH. The lightest and most perfect greenhouse construction yet attempted. Best crop of beauties I ever had. J. H. DUNLOP, Toronto, Ont.</p>	<p>NEW ENGLAND. "No shade in my new house, crop is a record breaker." J. A. LONG, East Haven, Conn.</p>
<p>EAST "So well pleased with all points, we intend to build more of them." G. MATTHEWS, Great Neck, N. Y.</p>		<p>FAR WEST "After making a trip East to see all constructions am ordering yours. Best in every way." C. H. HOPKINS, Kent, Wash.</p>
<p>CENTRAL "Lightest house on the place, strong as a bridge." W. J. PALMER & SON, Buffalo, N. Y.</p>		<p>WEST "They are perfect in every way." C. F. MALER, Denver, Colo.</p>

A RETURN TRAP FOR GREENHOUSES.

A return trap built to solve the florists' steam heating problems, has been placed on the market by the Morehead Manufacturing Company, of Detroit, Mich. The old systems of gravity returns by placing the boiler below the ground, or the employment of a pump to return the water to the boiler against the steam pressure, were both expensive and unsatisfactory.

The Morehead Return Trap is a simple, and inexpensive device for returning condensation in steam pipes to the boilers regardless of the position of the latter, whether above or below the coils. It is claimed that once installed, it requires little or no attention and can be relied upon under all conditions.

The trap consists of a cylindrical steel tank receiver of suitable capacity, swung on a brass trunion and actuated by a counter weight. Two smaller counter weights, in turn actuated by the larger, automatically operate a steam admission and an air relief valve. A steam port and two water connections, the latter provided with check valves for maintaining a flow in one direction, completes the list of trap parts.

The condensation in the returns is forced into the trap tank by the steam pressure from behind. When the tank has received a requisite amount of water, it tilts, automatically opening the live steam valve admitting steam at boiler pressure to the tank, thereby equalizing the pressure in the system and permitting the contents to flow into the boiler by gravity. All moving and adjustable parts are entirely outside, consequently easily accessible.

In line with this subject, the Morehead Manufacturing Company are distributing an attractive booklet devoted to the interests of florists and greenhouse owners in general. We recommend our readers to send for a copy.

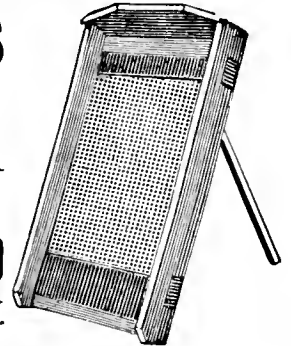
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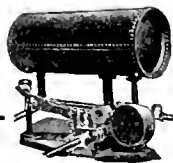
Not in the Trust
ADDRESS

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DOBSON BLDG., 9th AND MARKET ST.

PHILADELPHIA - - PENN.

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MOREHEAD RETURN TRAP

Keeps your steam heating system free from condensation.

Returns water to boiler whether located above or below coils.

SAVES FUEL, EQUIPMENT, LABOR AND REPAIRS.

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CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
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NEPONSET, BOSTON, MASS.

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John C. Moninger Co.
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BOSTON PLATE & WINDOW GLASS CO.

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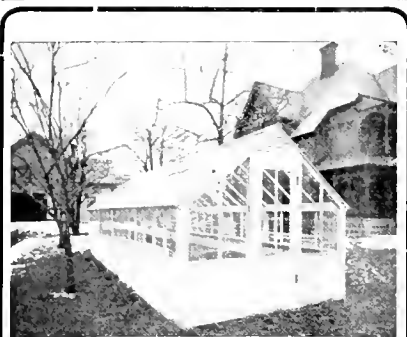
261 to 287 A St., BOSTON 20-22 Canal St.

GREENHOUSE HEATING

Let us give you a figure on any work you may have in the heating line from a boiler repair job to a complete heating plant. We are now heating 50,000 square feet of glass for the F. R. Pierson Company at Scarborough, N. Y., and are fully equipped to handle anything from the smallest to the largest at very reasonable prices. Write now for Boiler Catalog.

JOHNSTON HEATING CO.

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NEW YORK**



In a Premier Greenhouse—

all good points are combined. There's durability, artistic appearance, ease of erection — and — ease of RE-erection.

It's a better house than is usually built; the price is ONE THIRD of that usually charged.

Send for booklet No. G-p.

Chas. H. Manley,

Premier Mfg. Works, St. Johns, Mich.

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Old English

Liquid and

For Bedding Glass in
Sash or for Filling
Cracks or Seams



Glazing Putty

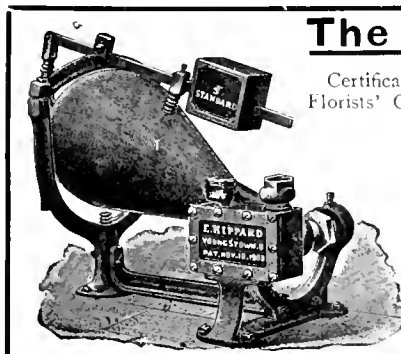
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in Roof Joints or
Frames of Green-
houses or Hotbeds.

It is used in Machine or Bulb. If too thick for bulb thin with a little Pure Linseed Oil, boiled. So thinned, it can be brushed into any crack or leak, making a solid filling. It makes a solid bed, impervious to moisture, and holds glass in its place, and will stop any crevice or fault. When once set on dry wood it does not heave. As regards the goods, the article is **no new invention**, but simply an article of the very best class, to do thoroughly good work, like old time gentlemen expected when sashes were made with lead, and small panes of glass used that caught the water and leaked unless set with an elastic putty which once set by a mechanic was expected to remain, and did remain in good shape. This Twenlow's Old English Glazing Putty does nothing more, nothing less. **SOLD BY THE FLORISTS' SUPPLY HOUSES.**

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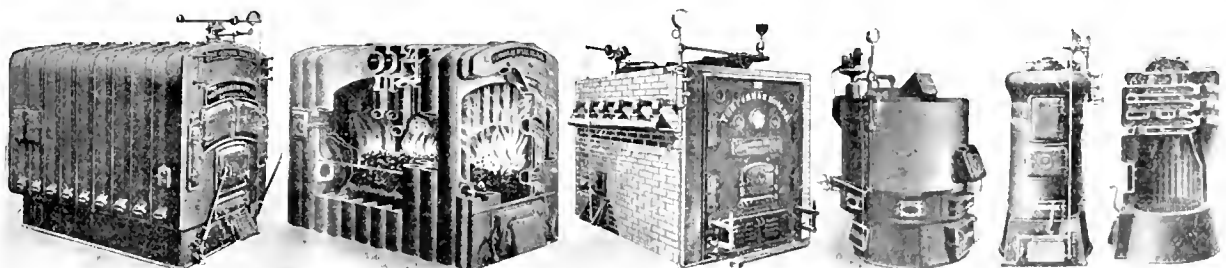
Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

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that you have some little confidence in Hitchings & Company when you begin to talk house or materials to them — confidence that not only the price will be right but that it is based on all that's best — no little detail left out — a perfect, practical, long to last, every way right house. It's on this confidence that we are doing our business — a confidence backed by our perfect greenhouses.

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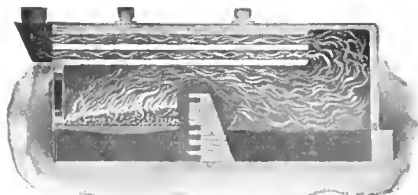
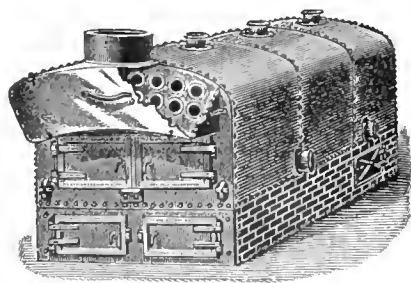
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Manufactured only by

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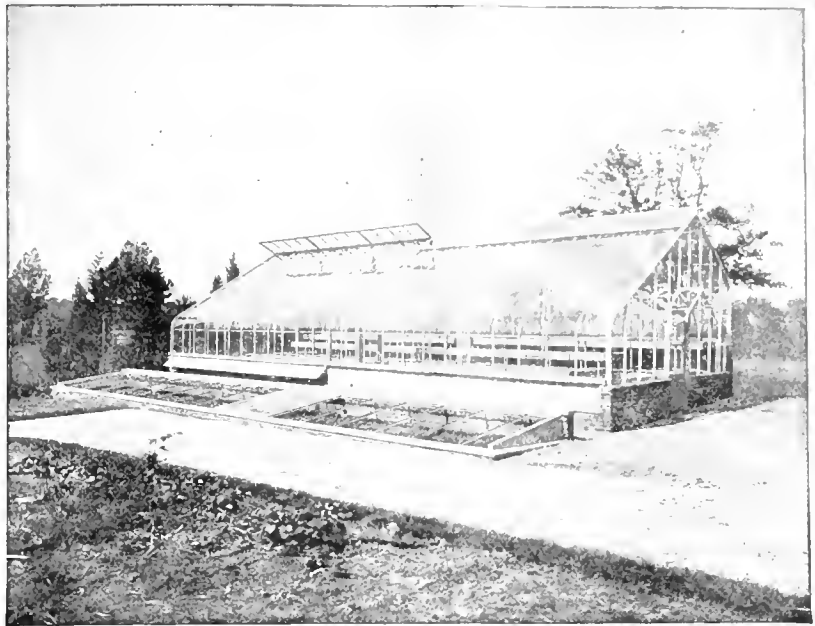
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Are the Best Greenhouses Built

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Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
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1000 3 " " "	5.00	48 9 in. pots 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 " " "	7.16	12 14 " " "	4.80
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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 **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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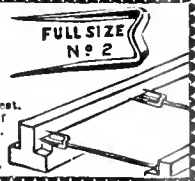
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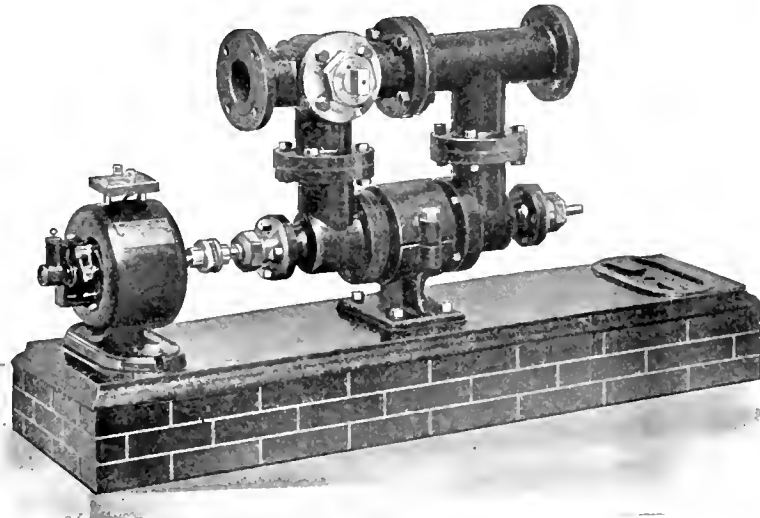
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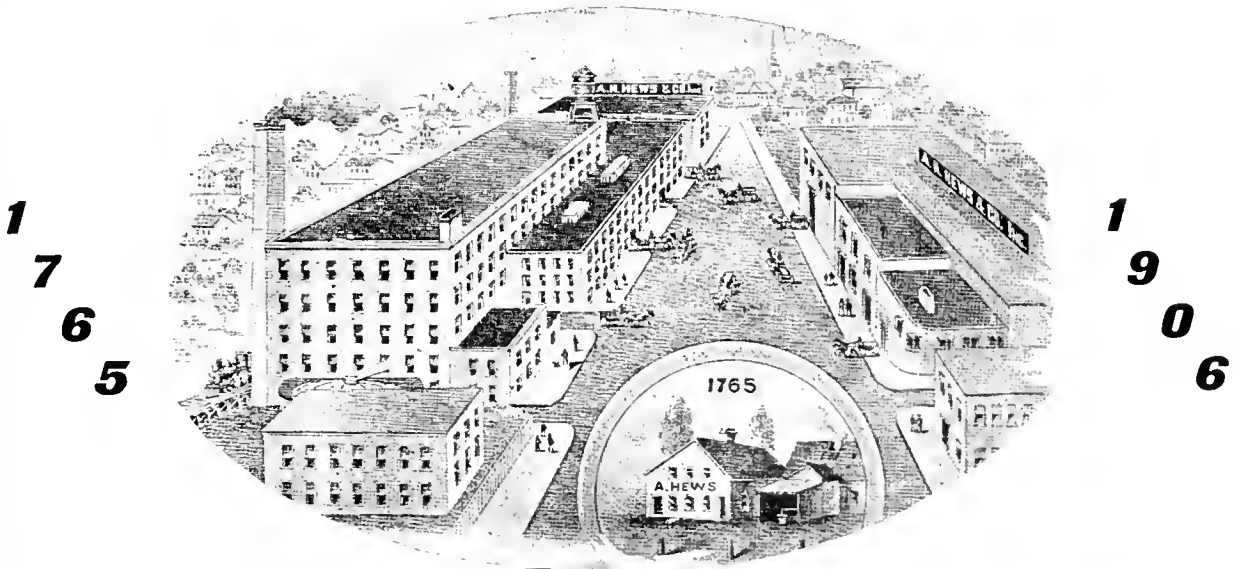
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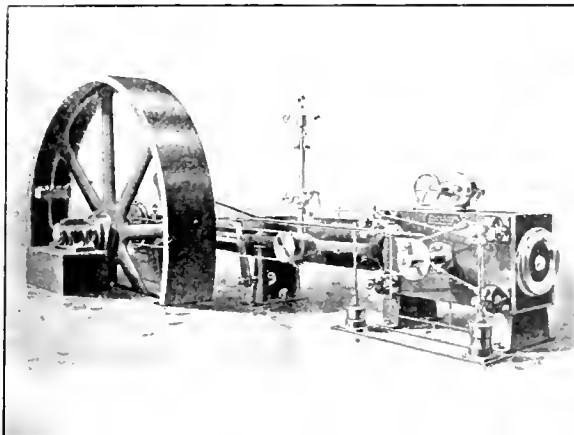
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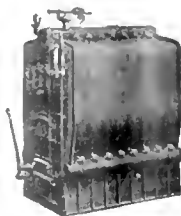
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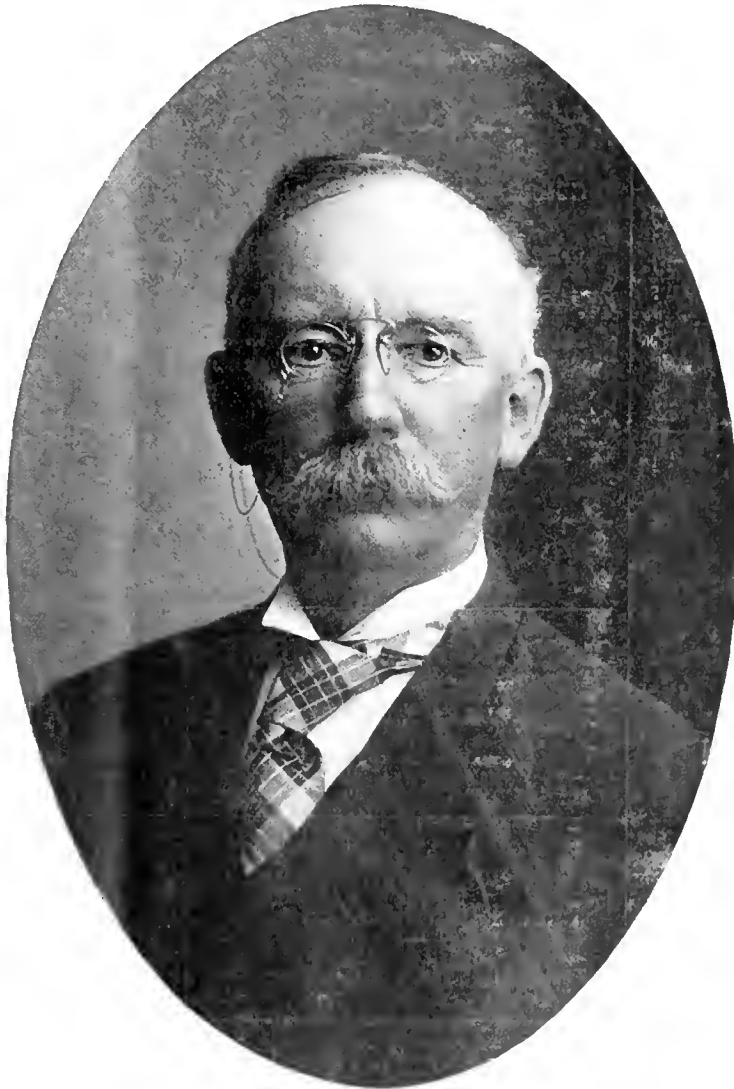
Steam.

HORTICULTURE

Vol. IV.

AUGUST 25, 1906

No. 8



PRESIDENT-ELECT WILLIAM J. SHWARTZ.
Society of American Florists and Ornamental Horticulturists

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	100	1000
RICHMOND ROSE 2 1/4 in.	\$12.00	\$100.00
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 Boston Market and Fair Maid \$5.00 per 100

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Send for price and list of varieties

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Extra Fine, Clean and Healthy

Field-Grown Plants.

The Queen and Fair Maid,
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HORTICULTURE

VOL IV

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In writing to Advertisers kindly mention Horticulture

Culture of the Cyclamen. III



MONT BLANC

The time has now arrived when the plants both old and young ought to be ready for the final potting. The size of pot to finish young plants in depends upon what time they are required to flower. For Christmas use a five or six inch pot is generally large enough, but if they are to be kept back until early spring a seven inch pot is the desirable size. For old plants the size of pot will be in accordance with the aspiration of the grower, but it is well to bear in mind that the effect of a good cyclamen can be completely spoiled by its being in too large a pot.

The soil for this potting is similar to that previously used—one-half fibry loam, one-fourth old horse manure, the remainder composed of leaf mould, broken charcoal and sharp sand all thoroughly sterilized, or even a little richer if the plants are in good health. This rich compost ought to carry them to the flowering season without any liquid feeding. We have never known cyclamens to be much benefitted by feeding at the time they are coming in flower; stimulants then encourage soft thick flower stems that will fall over with the

least handling and the flowers will not keep their color any length of time.

Opinions vary in regard to the value of sterilized soil, some being in favor of, some against and others indifferent; we have used nothing else for a good number of years and the results have been entirely satisfactory. In addition to killing offensive germs, we are certain, that, in our soil at least, by sterilizing some food elements are released or brought into activity, that unsterilized would remain practically dormant.

At this season cyclamens can hardly be kept too cool but as soon as the nights commence to get chilly the house where they are should not fall below 55 deg. A braeing atmosphere that is life for such plants as primulas, cinerarias, etc., will give cyclamens a check at the very worst stage of their growth. Not until the flower buds are well above the foliage should they be put in a cool house, thus greatly prolonging the flowers and flowering season.

All decaying leaves should be pulled out clean from the rootstock, otherwise the trouble will soon spread. If it should have spread before being detected clean out and dust a little air-slaked lime over the decayed part.

The importance of having the plants at all times near the glass should not be forgotten, and the location of the house or frame—we prefer a house—should be high and airy; close proximity to trees will encourage a leggy uneven growth. Portable shading, although entailing more labor gives the maximum light if removed when the sun goes down.

Enthusiasts generally tell us that their particular hobby is dead easy when we know how. We think too much emphasis is at times put upon the easiness, so when the novice tries his hand he is liable to be greatly disappointed. We would be sorry to give the impression that cyclamen growing is an easy undertaking. It is the very opposite. It is by no means easy even when we think we know how, a group of well grown cyclamens being always the product of an enlightened and painstaking grower.

James Stuart

Spraying

The question is often heard, "Why are there more insects now-a-days than there used to be?" In many instances the answer is found in the greater knowledge growers now possess concerning these troubles. Through the agricultural publications and the experiment stations information in regard to life histories, preventive measures and remedies has been disseminated so that people appreciate in a greater degree the immense amount of loss sustained by the country each year.

However, in many instances there are increased numbers of insects and diseases due to the concentration of crops in certain localities, increased transportation facilities, immense importation of foreign stock, and careless or ignorant experimentation.

But notwithstanding the greater intelligence and improvement in combative means which has been attained

in the last three or four years there is still room for advancement. In a farming town not five miles from the busy city of Brockton, Mass., there are men who do not know the meaning of insecticides. They go on year after year struggling against heavy odds, paying toll to codling moth, tent caterpillar, cabbage worm, potato beetle, onion maggot, plum curculio and the myriad of others insignificant alone but exacting a tremendous price when present in merely ordinary numbers. How these people expect to compete with up-to-date growers who study their conditions all the time is a question.

It is now the height of the spraying season. The main application for the codling moth, an insect that alone causes an annual loss of thirty to forty millions of dollars per year in the United States, should have been done immediately after the blossoms fell and before the

calyx of the small upright apple has closed. Paris green and arsenate of lead are the principal poisons used for this purpose. Arsenate of lead, however, is fast superseding the Paris green because of the sharp advance in the price of the latter. Moreover, the arsenate of lead remains in suspension much longer, has no foliage burning properties, sticks like paint—one application will usually last the season—it is easier to obtain in a pure state, its white color shows where it has been used, and in every way it is superior. Tons of this poison are being used in the spraying operations against the gypsy and brown-tail moths. In short, it is beneficial against all insects with chewing mouth parts. Mixed with Bordeaux mixture the various fungus diseases can be controlled along with the insects.

Insects which live by sucking their food, such as leaf hoppers, plant lice, squash bugs, scales, etc., are immune from this poison, requiring instead a contact poison such as kerosene emulsion, whale oil soap, and the like, which kill by suffocation and penetration. The greatest trouble is to make the owner of a few apple trees or a small garden see the value of spraying. He is usually the one who expects the most and does the least for his trees and land. Only an intelligent and observing man can spray successfully. It requires a study of the trouble—whether a fungus disease or an insect—to recognize the different stages of development and to deal with it at the vulnerable point. Spraying is "accumulative," as one writer puts it. The best results are not obtained the first year, but only after several seasons of conscientious, careful, painstaking work.

The practice of spraying is coming more and more to the front, especially in the West, for she is far ahead of the East in matters of this kind, and before many years spraying will be as much a part of the routine on every up-to-date farm as pruning or cultivating. As Prof. Bailey says, "The trinity of successful orcharding is cultivation, fertilization and spraying."

R. Z. Adams.

Early Flowering Bulbs

The fall and winter campaign is on the threshold, at least with the private gardener, and any slack time that might have been his good fortune to discover in mid-summer will be from now on practically at an end. What may be said of the private gardener is largely true of his brother florist.

Any of them being anxious to uphold their respective vocations up to date find it hard, methinks, to realize any appreciable relaxation during the entire

season, of the two the private gardener finding the less, for he, as a rule has more intricate irons in the fire to wield into shape.

What calls for his immediate attention at this season, outside weed-killing and the general routine assignable to the plant department, is the culture of the earlier section of flowering bulbs, such as freesias, ixias, oxalises, lachenalias, lilies, etc. No time should be lost after the first week in August in starting the first batches of the above in order to get them in flower at Christmas.

As ixias take less kindly to early forcing and require a longer time of growth to be at all amenable to forcing, they can be started all at once, and the successive flowering in batches, if so desired, be accomplished with better results in the early and late spring months.

The oxalis, being practically an adornment plant, its usefulness is more directly private than commercial, and for prolonged flowering purposes is better potted at intervals of three or four weeks apart but varietal peculiarities bridge over a lengthened period of time. For instance, *Oxalis Bowei*, one of the showiest, begins to flower in a few weeks after starting, whereas *O. versicolor* takes considerably longer and lasts longer in flower. *O. lutea* takes still longer time to arrive in the flowering stage but lasts longer in flower with generous culture, even well into summer.

Oxalis floribunda rosea, and its white variety *alba*, one of the commonest, since it is the most frequently seen in cottagers' windows, can be had in flower the year round according to treatment, but a period of rest like that accorded to the other varieties is essential to a continued vigor and floriferousness.

Almost all the species and varieties, of which there are a large number, look their best suspended from the roof, rafters or cross-bars of the greenhouses, in which position, when in flower, they add cheerfulness and charm to their immediate surrounding. Not only are they useful for inside adornment—but many of the species lend themselves to outside embellishment in the manner of massing and edging for taller subjects. They are especially fitted for rock-work garnishing in pocket-masses in the sun doing best in rich friable sandy soil. In my younger days in the craft they were then more plentifully used than they are apparently now.

Sparaxis is another class of easily grown bulbs of surpassing beauty in variation of spotting and coloring.

Tritonias are no less interesting and beautiful. There are many varieties, all of which are impatient of high temperatures.

H. Furleyson

Birds and Fruits

Much has been written of late years on the relations between insects and flowers, and many careful observers have shown good reasons for believing that the exquisite colors of our roses and tulips depend ultimately upon the slow selection of bees and butterflies. But very little attention in comparison has been given to the equally curious subject of the relations between birds and fruits; and yet fruits are objects of far greater practical importance to mankind than the beautiful blossoms whose origin Mr. Darwin and his followers have so often explained to us.

It may prove of more than ordinary interest to the readers of HORTICULTURE if we glance at the manner in which these pretty and sweet-flavored seed-vessels have been produced. We now know that no part of any plant or animal has been created solely for the use of other species; every organ has a duty of its own to perform in the economy of its possessor. If the luscious clover is gifted with honey to attract the bee, with sweet scent to draw it on in its quest, with purple petals to allure its eye from afar, it is primarily because the clover needs the aid of the bee in fertilizing its perfumed heads. If the currant coats its berry with the self-same sweet juices, and relies upon the self-same attractions of rosy coloring, it is primarily because the currant bush needs the voluntary aid of the bird in dispersing its seeds through the surrounding fields. Voluntary aid, we must say, because some seeds, like burrs and other hooked kinds, get themselves dispersed by means of sheep and cattle, to whose coats they cling against their will. Some, like thistle-down and cotton, are provided with fluffy tails, which carry them through the air on the wings of the wind; others, like the maple, have regular wings of their own, on which they fly in the same manner as the kite. The balsam bursts open its capsule with a sort of explosion, and scatters its seeds around it in every direction. The grasses simply drop their little round grains upon the bare soil beneath. But there are two kinds of seed-vessel especially liable to be eaten by birds and other animals, and these two kinds differ diametrically in the way they comport themselves towards their devourers. They are commonly called nuts and fruits.

The nut the squirrel or monkey eats whenever he can get it. Accordingly nuts are purposely made in such a manner as to escape the notice and baffle the hungry attempts of their enemies. They are generally green as they grow among their native foliage, and brown as they lie upon the bare ground beneath. Thus they never attract attention by their color or brilliancy. Then again, they are covered by a hard shell, and furthermore they very frequently have a nauseous bitter husk, or are covered with prickly hairs. A fruit, on the other hand, adopts exactly opposite tactics. It is so devised by Nature as to offer every inducement to various animals to eat it. The means which it employs for the allurement

of birds are exactly the opposite way to those employed for the allurement of insects. It has sweet juices, perfume and essences, red, blue, or purple coloring. Clearly, therefore, it is a kind of seed-vessel which means to be eaten, and only can get any one big enough to perform its duty.

But we must observe at the same time that fruits are not at all stages of their growth prettily colored, soft, and sweet. They begin as hard, sour, green knobs, and only acquire their external allurements as they slowly ripen. Of course this is quite necessary if the plant is to carry its point and get its seeds dispersed in a fit condition for sprouting; for its whole object would be defeated if birds were to eat the seeds while they were still young and green. Hence the color is only added at the moment when the little embryos within have become fitted for an independent existence. So, too, the sweet juices replace the sour acid of the green fruit and the hard pulp grows soft and yielding.

In these facts we find one of those minute relations of dependence between animal and vegetable life of which so many instances have been forthcoming of late years. The more we look into the balanced economy of life, the more does it appear, as Sprengel long ago pointed out, that "the wise Author of Nature has not created even a hair in vain." And whether we regard the mode of creation as direct or indirect, by a pure exercise of volition bringing forth an orderly universe through one design, or by slow adaptation of every part to every other through natural selection, it is equally true that every portion of every plant and every animal is instinct with meaning for those who patiently try to read it aright.

E. R. Roberts

The Single Purpose

in the reading columns of this journal is to give intelligent readers the kind of matter which will be of interest and benefit to them. This has been our policy from the start and explains why a new paper has so quickly won a reputation for good advertising results. Every concern has its own way of doing business.

Our Way

is to aim constantly to catch the eye and the consideration of the best men in the trade—those who are buyers of first-class material and who can pay for what they buy. If you have goods to offer to that class of buyers then advertise the fact in HORTICULTURE and

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AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone Oxford 292

WM. J. STEWART, Editor and Manager.

Overdoing it Annual catalogue making is now well under way. After perusing the products of some of the catalogue makers we sometimes find ourselves unable to decide whether they or the 4th of July fire-works dealers are the greater adepts in the use of florid adjectives. Supposing a more moderate style of description were adopted and about four-fifths of the grandiloquent phrases entirely cut out, would the sale of the seeds and plants in question be thereby impaired? We think not.

A relief from express tyranny Under the amended Interstate Commerce Act, jurisdiction is given over all express companies as well as railroads carrying goods from one state to another. The law provides further that the party making complaint need not have a personal interest in the goods or the transaction, and that a society or other organized body will have the same standing as an individual in seeking redress through the Interstate Commerce Committee for any of its members. The law will be operative on and after August 28, 1906, and from that time all express rates must be published and copies of schedules furnished to any applicant. Hereafter it will be a simple matter to ask for and promptly secure unprejudiced investigation and justice in the matter of express charges upon flowers or other commodities, and if parties submit to extortion by these corporations as they have been compelled to in the past, it will be wholly their own fault.

Horticulture for the school children The eagerness with which the school children take up garden work when permitted to do so is one of the best arguments in favor of this branch of study. It is remarkable how the most stubborn and incorrigible boys will forget their

anschief and destructive proclivities and join with unfeigned delight in this, the natural avocation of the human race. There can be no question of the wisdom of the Society of American Florists and Ornamental Horticulturists in fostering liberally the dissemination of garden knowledge through this means, for its members have an equal interest with the rest of the community in anything which tends to make the people better and happier. And beyond this is the selfish but very proper argument that whatever encourages a love for the beauties of nature, a healthy appreciation of flowers, trees and verdure, and develops a fondness for daily association with these things, is a direct and substantial benefit to every line of horticultural industry. It is always good business policy to take up such questions in a spirit of broad foresight.

A model society "An organization, national in character, honest and progressive in purpose," was the ideal held up before us by the founders of the S. A. F. twenty-two years ago. We might search long and earnestly before finding another aggregation of similar character that has adhered more closely to its text than has this great half-social and half-business organization of horticultural people. Take the convention which is in progress this week at Dayton and consider what it must mean in its ultimate influence upon American horticulture and those whose prosperity is linked with this great and growing industry. Veritably from the Atlantic to the Pacific, from the most northern to the most southern limits of our population these enthusiastic people have gathered, bent on pleasure and business combined, anxious to learn from the lips of their brethren that which is new and progressive in the practice of their profession, interested to see and examine and to adopt the various appliances and up-to-date goods shown by enterprising manufacturers, glad to greet old friends with an enthusiasm increasing in intensity with the distance travelled—yet an almost utter absence of the divisions and wire-pulling and scrambling so generally characteristic of associations of this type when they have become prosperous and influential. "National in character, honest and progressive in purpose." May it long so continue.

No man who grows stock for sale can call himself "progressive" if he omits to advertise it. If you grow for retail exclusively, advertise in your local papers. If you grow for wholesale trade, or if you have a surplus above your retail needs, get in line with those who are to be found in HORTICULTURE'S advertising columns. You will find it distinctly to your advantage and will have no trouble to back up the claim that you are "progressive." HORTICULTURE is essentially the medium of the "progressive" horticulturist, and this is one reason why it is the best advertising medium in its class.

WHEAT SCREENINGS ARE NOT FED TO SHEEP AT CHICAGO STOCK YARDS.

Referring to the complaint that has been made that stock-yard sheep manure contains deleterious seeds due to the feeding of sheep with wheat screenings, the Pulverized Manure Co., handling the "Wizard Brand" of pulverized sheep manure, sends us the following documents which are convincingly reassuring and will, we trust, be given full weight by our many readers who are interested in the purity of this important article.

Union Stock Yard & Transit Company,
Chicago, Illinois.

August 13, 1906.

The Pulverized Manure Company,

Union Stock Yards, Chicago,
Gentlemen:

Replying to your inquiry as to whether The Union Stock Yard & Transit Company of Chicago used wheat screenings for feeding sheep at the stock yards, I beg to say that we have never used wheat screenings in the Chicago yards for any purpose whatever. Sheep here are fed on hay, corn and oats alone.

Very truly yours,

H. E. PORONTO,

Purchasing Agent.

State of Illinois, }
County of Cook, } ss.

William S. Witten, being first duly sworn deposes and says that he is the Assistant General Superintendent of The Union Stock Yard & Transit Company of Chicago, and is in charge of the Feed Department of said Company; that the sheep at the said Chicago Stock Yards are fed nothing but hay, corn or oats; that wheat screenings are not now used and never have been used for feeding live stock at the Chicago Stock Yards.

W. S. WITTEN,

Subscribed and sworn to before me,
this 14th day of August, A.D., 1906.

BERNARD H. HEIDE,

Notary Public in and for County of
Cook, State of Illinois.

THE SHAW BANQUET AT ST. LOUIS.

As provided for in the will of the late Henry Shaw, the seventeenth annual banquet to gardeners, florists and nurserymen took place at the Jefferson Hotel on Tuesday night, Aug. 14. Very few gardeners, florists or nurserymen were present, the majority of the guests being apple growers from all parts of the country, they holding their fourth annual congress in the city at that time. The big banquet hall was decorated very prettily with palms and pink asters. Prof. William Trelease acted as toastmaster and the following gentlemen were called upon: President Dunlap, James Gurney, Dr. Burrell, President-elect H. C. Irish of the Florists' Club, and Walter Williams. The attendance numbered nearly 250. Among the local florists present were C. C. Sanders, J. J. Beneke, F. H. Meinhardt, Henry Lorenz, George Frow, F. W. Ude, Jr., Phil Goble, Frank J. Fillmore, J. W. Dunford, R. F. Tesson, Theo. Miller, Carl Beyer, Wm. C. Young, Edwin Denker and John Connon. The banquet lasted almost until midnight and was one of the best ever given.

PERSONAL.

Donald Shepherd, gardener for I. T. Burden, Newport, has secured a situation at East Greenwich, R. I.

Thomas Heskey, who recently started in business in Grafton, Mass., had his right arm operated on last week as the result of poison either from a scratch or bite of an insect.

Mr. A. Leuthy of the Perkins St. nurseries, Roslindale, Mass., has just returned from a five weeks' trip through Holland, Belgium and France. He is looking the picture of health and has found many new novelties which he will soon offer to the trade.

Carl U. Fohn, who has been forester at Keney Park, Hartford, Conn., during the past three years, has been appointed superintendent on the extensive property of Gen. Palmer at Colorado Springs, Col., and left Hartford on the 17th inst. to assume his new duties. Mr. Fohn has been an active and popular member of the Florists' Club and the Connecticut Horticultural Society, and his many friends in both bodies presented him on the evening preceding his departure with a massive silver loving cup. In horticultural and social circles "Carl" will be much missed and he carries with him to the West the warmest good wishes of the entire "craft" of Hartford.

Hugh Dickson, the rosarian, arrived home at Newtonards, Ireland, from his American trip safe and well recently and writes with great appreciation of the good time he enjoyed in America. Writing from Belfast under date of August 6th, he says: "I had Charles Sim, of Rosemont, Pa., with me at the nurseries last week. I think he enjoyed his day. I have had Dr. Robert G. Hney of Philadelphia, down for the past three days and he certainly has enjoyed himself among those new roses of ours. If you happen to run across him you will be interested in his enthusiasm over some of our new hybrid teas. Convey my kind regards to all my friends on your side. I appreciate their great and manifold kindnesses fully."

BOSTON BREVITIES.

Jackson Dawson has just returned from an expedition to the native heather fields bringing with him five hundred fine clumps.

Daniel Iliffe, greenhouse fitter, has moved to 49 Washington street, north, where his work-shop and office will hereafter be located.

One of Boston's oldest established retail flower stores will be obliged to move within a few weeks, owing to remodeling of the building in which it has been located.

The elm leaf beetle is doing an immense amount of mischief about Newton, Brookline, Cambridge and other suburban districts to the westward of Boston. Many of the finest trees are entirely defoliated.

N. F. McCarthy & Co., are putting in a ten-ton ice machine for cooling their flower storage apartments. It is expected that a temperature of from 32 to 35 degrees will be attained with the system adopted and a consequent advantage gained in holding flowers for shipment.

ECHOES FROM THE NEWPORT SHOW.

Of the trade exhibits at the show a large display of gladioli from John Lewis Childs, Floral Park, N. Y., was one that attracted a great deal of attention. The variety America, which has been recently introduced, was especially conspicuous and the object of much favorable comment from gardeners and others. For this collection Mr. Childs was awarded a first-class certificate of merit and a gratuity.

Vaughan's Seed Store exhibited a large case of gladiolus Mrs. Francis King; of peculiarly pleasant scarlet color, the spikes large and well furnished with good sized flowers. This exhibit also received a certificate.

There was only one entry for the S. G. Harris prize for Hybrid Tea roses and this was from the F. E. Conine Nursery Co., Stratford, Conn. This firm, besides taking the Harris prize, was awarded a first-class certificate. Mr. F. E. Conine staged the exhibit and for each day of the show received a consignment of blooms, with which he was able to keep his exhibit looking fresh and attractive. Chronicing this fact should be a hint to others to do likewise.

Henry A. Dreer received a certificate of merit and a gratuity for a display of aquatics; also certificates for *Pteris Winsettii grandis*, *Pteris Childsii* and *Asparagus Duchanilii*.

James Garthley, gardener for H. H. Rogers, Fairhaven, Mass., exhibited a fine lot of blooms of tuberous begonias, for which he was awarded a first-class certificate.

Asparagus plumosus Crawshawii was much admired. The raiser of this novelty hails not from Olneyville, as last reported, but from Providence. And while we are on the correcting line we might state that the Whaling City cannot claim Mrs. Wordell, who was an exhibitor of dahlias; North Westport is her home.

Phoenix Robelenii was exhibited by two firms, Julius Roehbers and F. L. Zeigler.

Gibson Bros. took first for table decoration on Wednesday with a pink seedling dahlia piece; Andrew Christensen was second.

For gardeners' assistants, William Austin took first, Alex. Main second, and A. Tolstrop third.

For Mrs. Berwind's special for an original table decoration, John Marshall took first with a garland arrangement made of *Stephanotis* and *Asparagus Sprengerii*. Colin Robertson was second with carnations in a jardiniere.

CLIP A COUPON, EVERYBODY.

We haven't seen that souvenir which the Foley Mfg. Co. offers in its advertisement in this paper, but Foley never does things by halves and we advise everybody to clip the coupon and send it along as requested.

The Southern Nurserymen's Association met at Lookout Mountain, Tenn., on Aug. 15 and 16. President Orlando Harrison of Berlin, Md., opened the session. There was a good attendance and the addresses and papers covered important questions of interest.

THE CONVENTION AT DAYTON

A Vast Throng in Attendance

Officers Elected—Wm. J. Stewart, President; P. J. Hauswirth, Secretary; H. B. Beatty, Treasurer

A Trade Exhibition of Great Magnitude

The twenty-second annual convention of the Society of American Florists and Ornamental Horticulturists opened under most inspiring auspices. The meeting hall—one of several canvas-covered pavilions adjoining the big exhibition hall—was draped with wild smilax and oak branches and the cool breezes blowing through the open sides furnished the ideal place for a summer meeting. On all sides skirting the green lawns were to be seen the brilliant flower beds of the out-door display, contributing a charming effect and causing much regretful comment on the costly mistake the ornamental nurserymen had made in failing to take advantage of this unprecedented opportunity for showing their goods. For the past two months the number of visitors to the Cash Register works adjoining has been 1200 people daily, and the fair ground floral display has attracted thousands of them to inspect and admire. For a week the big octagonal exhibition hall has been a scene of bustle and activity. In extent and variety the exhibition is the peer of any of its predecessors and in arrangement it would be impossible to improve upon it. The decorations are lavish, there is to be music continuously every day and altogether the exhibition is, in its perfection and impressiveness, a feature which alone will repay the visitor whether he come from the Atlantic or the Pacific coast.

A heavy thunder storm Tuesday afternoon delayed opening proceedings until nearly 1 o'clock. Vice-President Altick called the assemblage to order. He regretted the inauspicious weather conditions, but promised improvement for the balance of the week. The Mayor being away from the city, Judge Dale eloquently extended the welcome of the city of Dayton to the visitors. Response on behalf of the society was made by Prof. J. P. Cowell of Buffalo. President Kasting was then introduced

and after the applause had subsided proceeded to deliver his address.

ADDRESS OF PRESIDENT W. F. KASTING.

Ladies and Gentlemen, Fellow Members of the S. A. F. & O. H.:

Twenty-two years ago, I am told, while this society then new-born, was holding its first meeting in the City of Cincinnati, there came an invitation to visit this city and view the horticultural wonders as set forth at the Soldiers Home and other places. Today we come again, increased an hundred fold, to see not only the Soldiers Home but to see and admire the thousands of plantations in the streets, squares, and about the homes of the people; plantations that have made the name of Dayton known the world over and have been an incentive for other municipalities and an object lesson in civic cleanliness and good taste.

Amid such surroundings, I trust our deliberations as a Society may be immeasurably pleasant and profitable, and that as individuals we may carry away impressions and ideas that will enable us to improve our own environment, and add to the beauty and general attractiveness of the localities which we severally represent.

Twenty-two years is not a long time in the history of a nation or even of a society, but it is time enough, I think, to prove the solidity of our organization, and time enough for us to have profited by our experiences. If there was a need for an organization of this character twenty-two years ago, how much greater is the need to-day, with the enormous expansion of our business that has come in two decades. The wisdom of the Fathers has been amply demonstrated. We cannot afford, however to stand still and rest upon the records of the past—we must put forth new efforts and keep pace with the great procession.

The question comes home to us—Are we making the most of our opportunities as a society with such broad aims and splendid possibilities? Would it not be well to pause in our congratulations and our commendations and in-

dulge in a season of introspection, and see if we cannot profit by example and still further augment our usefulness. Let us take a leaf from the history of our Host City and clean up our backyard and put our front in such condition that it may be an example to all men, to the end that we may become a greater power for good in the years that are to come. Let us take an example too by the work that the National Cash Register has done, and in our wider dwelling place be leaders in improvement and education.

There are certain questions that seem to be perennial sources of discussion, which crop up annually for our consideration. Occasionally one is settled; but its place is immediately taken, and it is only by constantly hammering at them that they are brought into shape and disposed of.

I propose briefly to refer to the more important of these problems, not with the idea of giving you any fresh argument, but rather that they may not be allowed to rest until they are solved.

Among the questions discussed by my predecessors, perhaps none are of more general importance than those pertaining to education.

We as professors of garden art and craft will continue to be looked up to as those having authority to speak, and it devolves upon us to be prepared, so far as we may, to lead in all matters relating to horticultural pursuits. How can we best reach the people who are interested in garden matters, and increase their love for vernal surroundings, as well as to implant desire where no desire exists, are questions of vital importance and worthy of our most earnest consideration. Exhibitions as a factor in education are of the greatest value. It is by the eye more than by the ear that people are instructed. The value of local displays of plants and flowers, happily on the increase have done much to stimulate a more general love for flowers and incidentally have increased the demands for the product of our art. Probably still more far reaching on account of its greater publicity and more elaborate and comprehensive display would be an exhibi-

tion of national character, where the entire country would be represented.

NATIONAL FLOWER SHOW

This question of a National Flower Show was again before the Executive Committee of the Society at its recent meeting in this city and was discussed at some length, and I believe no one dissented from the statement that such a show would be of the greatest benefit to our interests. The result of this discussion will appear in committee report.

I trust that the details of plans for such an exhibition may be perfected in the near future and that such an exhibition may be held in one of the great centers of the country. Perhaps it is unfortunate in some respects that our interests have been drawn away or divided by the organization of special societies devoted to the culture of individual flowers.

I mean that in many cases the interest in the special has overcome the interest in the general and to an extent has weakened the S. A. F. when it comes to a question of combination of all interests in one grand exhibition. Everyone with the welfare of our Society at heart must labor for the closer union between these vigorous offsprings and the Mother Society.

TRADE EXHIBITIONS.

Trade Exhibitions, as they are now conducted at our annual meetings are undoubtedly of great benefit to our members. They should be fostered, and the exhibitors should be encouraged in every way consistent with the proper disposal of the business of the Convention.

I deem this subject of so much importance that I would recommend that special time should be given to the examination of the exhibits. The exhibitors come to our meeting under a great expense, they contribute largely to the success of our meetings both in interest and financially and I believe they should have more consideration at the hands of the makers of the program.

We can well afford to call one day Exhibitors Day.

We have made an experiment with out-door exhibits and while the result to date is not satisfactory, yet I believe the idea is good, and that this out-door exhibition can be made an important adjunct. In order to make an exhibit of this kind a success time must be taken for proper preparation. A manager, preferably a local man, must be appointed and the ground be available a year before the date of the meeting, or better still a year and a half. It would then be possible for fall planting or even spring planting to be done and plants could be properly established and prepared. This would enable our nursery men to make an exhibit of trees, shrubs and such other hardy material as they might desire to show. A good exhibition of this character would add greatly to the interest of our meetings.

THE EXPERIMENT STATIONS.

The Experiment Stations are doing much valuable educational work and their publications are far reaching. Every member of this Society should avail himself of his opportunity to obtain the bulletins of his State stations, and use his best endeavor to see that

these stations are provided with sufficient funds to carry on their work.

Any one who has been familiar with the work of these institutions for the last twenty years, cannot have failed to notice the improvement in the quality of work done.

The complaint made by many that not enough work is done for the benefit of the florist and gardener is not so just as it was years ago, and in many instances more work along these lines would be done if it were cared for.

If you don't ask for it, you don't get it.

HORTICULTURAL EDUCATION.

Horticultural Education as provided in the public schools, is perhaps rather disappointing to many. But it must be remembered that in the common schools only the merest rudiments are possible and just how much horticultural instruction is given will depend largely upon the people of the locality.

Nature Study is in many cases really a primary course in horticulture. Some of the states are showing considerable activity along this line and probably the great need at the present time is a more efficient plan of work and better prepared instructors. The way to stimulate the work is by arousing public sentiment in behalf of the value of such study.

Mr. Hallock who has given this subject much thought will discuss the question at the meeting.

FREE SEED DISTRIBUTION.

Free Seed Distribution by the Federal Government, still continues; but the efforts being made will if continued, I doubt not, effect a discontinuance of the practice and the "hoary fraud" will be done away with.

Members of this Society should give their representatives in Congress no rest until this practice is abolished.

PARCEL POST.

A Parcel Post, would be the great advantage of most people in the trade and a great boon to the general public. The elements opposed to such public convenience are well known, and so far they have had influence enough to prevent the passage of a law establishing it. The agitation should be vigorously continued, and every means taken to impress our law makers with the necessity for such a method of transportation.

We are behind most civilized countries in this respect.

THE TARIFF.

The Tariff on many articles which are of necessity imported or which might be imported to our great advantage still continues to vex us. Some of the duties imposed are indefensible as a whole and others should be greatly modified. This subject has been before us often and some action has been taken in regard to it. I would recommend the appointment of a committee whose duty it should be to lay before the proper authorities our views on the subject, and urge a revision of the duties whenever possible.

SECRETARY'S OFFICE.

To return to our more immediate concerns it seems to me that we might profitably make some improvement in the conduct of our business affairs. The Secretary's Office is one of the most important, as well as one of the

most permanent within the Society. At some changes in the number of members might be well undertaken. In the first place the Secretary should give bonds, as is now required of the Treasurer. His books and vouchers should be presented at the meeting of the Executive Committee for audit in connection with the accounts of the Treasurer, and not be passed upon in bulk in the hurry of the Annual Convention. His accounts as published should be itemized, for every member has a right to know just how his money is being spent and to whom it is paid. He is now the purchasing agent of the Society and no check is kept upon his expenditures. I would suggest that all bills be approved by the President before going to the Treasurer for payment.

The Secretary should be paid an adequate salary sufficient to remunerate him for his time and incidental expenses, and this should cover them all, so that bills for extra help, etc., would not be presented to the Society.

AMENDMENTS TO BY-LAWS

The Amendments to the By-Laws, in regard to manner of conducting election will come before you at this meeting and should not fail of action as recommended by the Executive Committee.

MEMBERSHIP.

Membership in this Society should stand high. I cannot approve of the suggestion that the dues of certain members should be made less than that of others. While it is desirable to include in our membership everyone engaged in ornamental gardening, whether he be on a private estate, in a public position, or a wholesale warehouse, and an effort should be made to induce all to join; yet it should be understood that all come in on an equal footing and with equal responsibilities before the law.

The so called "Private Gardener" of today may be a public gardener tomorrow; the employe of today may be, and indeed he probably will be an employer tomorrow. Nor should it be forgotten that many an employe is better able to pay dues than are some employers.

It seems to me that this Society should keep in closer touch with the local organization. It should have its accredited agent at the local flower shows and other gatherings of the craft. This would, I believe, tend to add new material to our membership list and add to the prestige of our Society.

In order to do this it would be necessary to have some one detailed for the purpose, and probably the Secretary of our Society would be most available for the purpose.

STATE VICE-PRESIDENTS.

More care should be taken in the selection of the State Vice-Presidents. At the present time one or two men from a locality get together and place in nomination the person who might suit them best, which as a rule is equivalent to the appointment for this office made by the President. This should be left entirely to the selection of the President when he takes office. If he should not be acquainted sufficiently with a person from that territory or locality, it would be then the duty of the President to ascertain from

the local Society if there be one or a few other members in the craft which is the best man for him to appoint.

The office should stand for something and men should be appointed who will give some time to the interest of the Society.

BUSINESS METHODS

Business Methods need more study on the part of many men engaged in trade, and this is just as true of the flower trade as of any other. No man can hope to succeed who does his business in a loose and slipshod manner. No matter how small the business, a set of books should be kept so that the standing of the business can be found at a moment's notice.

Fair dealing in both buying and selling should be the rule, and a man's word should be a little better than his bond. Do not abuse your credit and you will find business much easier. It is true in business as well as in other things that "A good name is better than riches."

I have alluded elsewhere to the Trade Exhibitions, and now I wish to add a few words in regard to their management.

I believe that the Society should take entire charge of these exhibits. It should appoint a manager, pay all expenses and receive any profits that may arise from such exhibitions. I am well aware that the custom has been otherwise for the reason that the money realized was needed for the local people to help on the entertainment. Now this is all wrong. Is it not time that this Society adopted an attitude of independence and dignity? Is it not time that this Society selected its own place of meeting without putting it up to be auctioned off?

Would it not be possible for us to go in peace and quiet in some central point and hold our Convention and entertain ourselves? There are many places that we could visit with profit to ourselves, where to be entertained by the local members of our trade would mean ruin to them. This entertainment has in my opinion grown to be a great evil, and an unjust tax upon the communities visited. It has reached a point in the emulation of hosts where it behooves us to stop and consider the cost. To-day there are only a few of the larger cities that dare invite a Convention, because they cannot make the lavish preparations that have become customary. A reform in this direction is needed.

SPORTS.

Perhaps another reform is needed in the matter of sports. Do we not give rather too much valuable time to our games? It is true that they are enjoyable to many but it hardly seems necessary to travel a thousand miles to play a game of base ball or shoot a few clay pigeons. I think we have gone a little too far, and have suffered in the attendance on our meetings because of the time taken for these contests. I do not mean to decry the social value of our meetings but is there not a better way of enjoying each others society and one less embarrassing to the business of the Convention?

I believe that these contests should be curtailed and so arranged as not to interfere with the working of the Society as they do at present. Take a day for them if necessary, but let

that day be after the business of the meeting is completed.

HORTICULTURAL PRESS.

One factor in the general success of our business that has received but scant notice from us, is the Horticultural Press. While it may be said that these publications are purely commercial enterprises, and outside of our societies, yet they contribute a great deal to our success as a Society, and contain from time to time the condensed essence of the brains of our more prominent members. They are certainly worthy of our support in every way, and no man in our business can hope to be posted in the doings of our craft without the weekly perusal of these papers, advertisements and all.

IN CONCLUSION.

A word more and I am finished. It has occurred to me that many good ideas are broached after the work of our committee is done. How easy it would be for every member of this Society having opinions in regard to the management of the business of the Society to put his ideas in writing and send the same to the Secretary at any time previous to the meeting of the Executive Committee.

In surrendering the office of President to my successor, I want to thank you for your loyalty and consideration, which has made the work a joy and will leave with me a most pleasant memory.

REPORT OF SECRETARY WILLIAM J. STEWART, 1906.

The secretary then read his report, as follows:

Mr. President, Ladies and Gentlemen of the Society of American Florists and Ornamental Horticulturists:

I find it hard to realize that this is my nineteenth annual report as secretary. Twenty years seems a long period to look forward to, but very short in retrospect. Some of us who are awakening to the fact that the years count up very rapidly, and that conventions come around with alarming frequency of late, can, however, take some comfort from Emerson, who wrote "We do not count a man's years until he has nothing else to count." It is to be hoped that each and every one of us may be thus immune from year-counting for many a year to come. To quote again from the same writer "Nothing great was ever achieved without enthusiasm." Dayton has been long on enthusiasm for many months—hence this truly great convention opening and, as nothing is more infectious than healthy enthusiasm, it is not difficult to forecast what kind of a convention this, which we are now entering upon, is to be.

You all know that the Executive Board met here last spring, that we had a good time as Executive Boards always do and that we worked long and hard as Executive Boards also always do. The program as printed discloses but scantily the quantity and quality of oratory which is promised as various important subjects are brought forward and he who thinks to stay away from any of the sessions little realizes what he will miss.

Among the recommendations of the Executive Board are—first, the proposition that at all future trade exhibitions the net profits therefrom be

equally divided between the national society and the local organization. As this is a matter to be adjusted by the Executive Board each year the main reason for referring to it here is that organizations planning to invite the society to visit their city may know before extending any invitation and govern themselves accordingly. The outdoor exhibition, wisely planned, earnestly urged and generously carried out so far as the society and its Dayton friends are concerned, has not received the support that should have been given it by the plant growers and nursery trade generally. The project is on right lines, however, and should have another opportunity next year.

Recognizing the need of some better method of instruction in horticulture for young men, a sub-committee was appointed to confer with Agricultural College officials and it was voted to recommend to the society the appropriation of a sum not to exceed \$150 toward the carrying out of some practical plan of co-operation between the society and the colleges.

According to instructions by the society the scheme of numbered badges and a key book for members has been put in operation, and the name of every member registered up to July 15, 1906, appears therein.

Other important transactions by the Executive Board are fully disclosed in the various items of the official program which you have before you.

Acting on the complaint of members living in New Jersey an effort was made by your secretary and also by the chairman of the legislative committee to get from the manager of the U. S. Express Co. a statement as to the reasons for the increased transportation charges made since last May upon flower shipments from New Jersey points to New York city, but we were met with a very decided refusal to give any explanation. A second request did not even receive the courtesy of an answer. Your secretary, in the meantime, had been making some investigations as to our privileges under the new Interstate Commerce Act, and on August 7, 1906, wrote the following letter:

Boston, August 7, 1906.

Mr. T. M. Jones, Mgr.,

U. S. Express Company,

29 Broadway, New York, N. Y.

Dear Sir:—Referring to my letter of May 11, 1906, which thus far remains unanswered, I beg to state that in view of the universal sentiment of protest on the part of flower growers who are members of our society and whose interests are affected by the advanced rates on flowers shipped from producers in your territory to the New York wholesale market, I deem it to be my duty to submit this matter to the Interstate Commerce Commission for investigation and adjustment as is my privilege under the provisions of Section 13 of the amended Interstate Commerce Act, unless I receive some assurance from you that the increased charges complained of will be given prompt reconsideration by your company.

It would give me much pleasure to be able to report to our society at its convention in Dayton, Ohio, August 21-24, that the United States Express Company had taken this question under advisement and hoped to be able to

announce a rate which would be generally accepted as just and reasonable.

Yours respectfully,

(Signed) WM. J. STEWART,
Secretary.

This letter shared the same fate as its predecessor, no acknowledgment having thus far been received. I believe we have a good case; I know that the Interstate Commerce Commission will give us a prompt and courteous hearing, and hope we shall be able to arrange for the appearance of our legislative committee with necessary witnesses before that body at an early date.

Regarding the domestic-grown narcissus bulbs exhibited by a Virginia grower last year which were submitted to Mr. J. F. Sullivan for testing, that gentleman reports that he gave them identically the same treatment that was given the foreign-grown bulbs of the same varieties and found the flowering qualities to be of substantially the same good value.

Medals have been delivered during the past year as follows:

Robert Craig & Son, Philadelphia, a bronze medal for *Ficus pandurata* exhibited at the Washington convention.

Louis Wittbold, a bronze medal for mechanical watering system exhibited at the Washington convention.

Dennison School, Washington, D. C., through Miss Susan B. Sipe, bronze medal for superior work in gardening, October 16, 1906.

Through the American Carnation Society, January 24, 1906, a silver medal to Cottage Gardens Company for carnation Mrs. C. W. Ward, and a bronze medal to Cottage Gardens Company for carnation Robert Craig.

Through the Cincinnati Florists' Society, March 10, 1906, a silver medal to R. Witterstaetter for carnation Afterglow, and a bronze medal to Minneapolis Floral Company for rose Miss Kate Moulton.

New plant names have been registered since my last report as follows:

August 26, 1905—Canna, Uncle Sam, by Conard & Jones Co., West Grove, Pa.

October 14, 1905—Rose, Triumph, by Peter Henderson & Co., New York.

October 28, 1905—Canna, Vesuvius, by Peter Henderson & Co., New York.

November 11, 1905—Cannas, Prince of India, Jupiter, Venus, by Conard & Jones Co., West Grove, Pa.

December 23, 1905—Carnations, Winsor, Helen M. Gould, White Enchantress, by F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

January 27, 1906—Rose, Helen Good, by United States Nursery Co., Rich. Miss.

February 17, 1906—Sweet peas, Mrs. Alex. Wallace, J. K. Allen, Christmas Enchantress, Jack Hunter, Mrs. C. Wild Christmas Meteor, by A. C. Zvolanek, Bound Brook, N. J.

February 24, 1906—Roses, Christine Wright, Columbia, by Hoopes, Brother & Thomas, West Grove, Pa.

March 10, 1906—Canna, Superior, by William Schray & Sons, St. Louis, Mo.

March 10, 1906—*Alternanthera aurea* rohusta, by William Schray & Sons, St. Louis, Mo.

March 10, 1906—Sweet peas, Secretary William J. Stewart, Mrs. W. W. Smalley, by A. C. Zvolanek, Bound Brook, N. J.

March 24, 1906—Cannas, Dr. William

Saunders, Ottawa, by Conard & Jones Co., West Grove, Pa.

April 7, 1906—Sweet peas, Mrs. J. Ham Sim, Mrs. F. J. Dolansky, Sam J. Trepess, Maxwellton, Caroline Wagner, by A. C. Zvolanek, Bound Brook, N. J.

April 21, 1906—Sweet peas, Mrs. J. F. Hannay, Marion Stanford, Mrs. Jossie Riedley, by A. C. Zvolanek, Bound Brook, N. J.

April 28, 1906—Cannas, Mount Washington, Mount Zion, Henry George, Telegraph, Inman's Choice, Britta, Golden Cluster, Sensation, Iwanta, Thelma, Pansy Read, Crown of Gold, Admiral Togo, Gold Mine, Queen of Orange, The American Duchess, Golden Dawn, Royal Neighbor, Golden Express, Amalgamated, Ohio, Buckeye, Dayton, Nymphaea, Leader, Royal Bronze, Fairhope, by the Southern Floral Nursery Co., Fruitdale, Ala.

May 5, 1906—H. P. Rose, Charles Wagner, by Conard & Jones Co., West Grove, Pa.

May 12, 1906—*Dendrobium nobile*, Mrs. Larz Anderson, by Duncan Finlayson, Jamaica Plain, Mass.

June 9, 1906—Cannas, Queen of Beauty, Flashlight, Majestic, Bronze King, Giraffe, Moonlight, Blushing Belle, Southern Pride, Alabama, Mississippi, Bucatanua, Gen. Kuroki, Tom L. Johnson, Emerald, Perfection, Daybreak, Sunbeam Jumbo, Gov. Patterson, Chautauqua Jr., by the Southern Floral Nursery Co., Fruitdale, Ala.

June 23, 1906—*Nephrolepis Frueckii*, and *Berryii*, by Henry C. Frueck, Grosse Point Farms, Mich.

July 14, 1906—Rose, Aurora, by Paul Niehoff, Lehighton, Pa.

July 21, 1906—*Hydrangea arborescens alba grandiflora*, by The E. G. Hill Co., Richmond, Ind.

August 11, 1906—*Laelio-Cattleya*, Lady Bernice, by Lager & Hurrell, Summit, N. J.

We have lost nine members by death since my last report:

C. G. Nanz, Louisville, Ky., August 17, 1905.

J. C. Rennison, Sioux City, Ia., February 24, 1906.

Aug. Rhotert, New York, N. Y., April 9, 1906.

C. H. Kunzman, Louisville, Ky., May 22, 1906.

George H. Rowden, Wallingford, Conn., May 17, 1906.

Hans Bartels, Milwaukee, Wis., April 30, 1906.

Abraham Hostetter, Manheim, Pa., April 18, 1906.

William Schray, St. Louis, Mo., May 15, 1906.

James Harshorne, Joliet, Ill., August 6, 1906.

Other membership statistics are as follows:

Whole number of members as per printed report for 1905, was 889, of whom 114 were life members. This included 4 life members and 173 annual members who had been added or reinstated during the year. The acquisitions are credited as follows: Alabama, Colorado, Iowa, Louisiana, New Hampshire, Rhode Island, one each; California, Missouri, North Carolina, Virginia, Ontario, Manitoba, two each; Indiana, Wisconsin, three each; Connecticut, Georgia, Kentucky, four each;

South Carolina, two each; Illinois, one each; Michigan, one each; Ohio, one each; New York, 25; Pennsylvania, 10.

The number of applications received from members who had not joined the previous year but who had been called to respond in 1906, was 10. These delinquencies are credited to the various States as follows: California, one; Kentucky, Maryland, Maine, Rhode Island, Texas, Ontario, one each; Colorado, Georgia, Kansas, Oklahoma, South Carolina, Tennessee, two each; Connecticut, Iowa, Minnesota, New Jersey, three each; Indiana, four; Michigan, five; Wisconsin, seven; Ohio, eight; Pennsylvania, nine; New York, twelve; Missouri, thirteen; Illinois, twenty-two. The list of names of delinquents in each State was sent from the secretary's office to its respective vice-president. A few of the vice-presidents reported; from the majority no response was received.

It is, I think, generally known among the members that I have decided not to be a candidate for re-election to this office which with rare and generous confidence you have placed in my keeping for so many years. Since that day nineteen years ago, in Chicago, when I had the privilege of thanking you for the honor you had conferred in unambiguously selecting me as the successor in office of such men as E. G. Hill and Edwin Lonsdale, many changes have come about. Very many loyal workers for the Society whose friendships were so dear to us have been called away never to return. In meditating on the changed conditions and tremendous horticultural growth of this epoch in the Society's history I feel that, while the ambitions and aims of the pioneers have in some respects fallen short of realization, yet, as societies go, this Society has done well. The balance in the treasury as reported at the Chicago convention nineteen years ago, was \$22.35. With this, our treasurer's report which you are about to listen to, will compare favorably.

Our membership, however, is not what it should be. Everyone identified with any department of horticulture is a sharer in the general benefits which the existence and the direct work of the society has made possible, and it is much to be regretted that thus far no effective means has been found of bringing the great mass of those engaged in those pursuits to do their share toward the support of the institution which has done so much for them and might do so much more if it could only have the necessary backing.

In seeking to be relieved from the responsibilities of the secretaryship I can assure you that my interest in the Society's welfare will continue unabated, and I shall be ready at all times in the ranks to do whatever lies in my power for the grand old Society whose burdens and whose joys have been so peculiarly my own for so many years.

On motion of Benjamin Hammond the secretary's report was accepted with regrets of the society for Secretary Stewart's withdrawal, which he said was decisive.

The treasurer's report, of which the

following is a summary, was next presented:—

TREASURER'S REPORT—YEAR 1905.

1905.	
Jan. 1st. Balance—General Fund	\$2,923.07
Balance Life Membership Fund.....	2,819.96
Cash on hand	\$5,743.03
Dec. 31. Total receipts year 1905. General Fund	\$2,403.44
Total Receipts year 1905, Life Membership Fund.....	911.56
Total receipts 1905.....	3,315.00
	\$9,058.03
Dec. 31. Total disbursements year 1905, General Fund.....	1,843.55
Cash on hand Dec. 31, 1905.....	\$7,214.48
Dec. 31. Balance—Home Trust Co. of Pittsburg.....	\$1,184.89
Balance—Citizens Banking Co. of Oil City.....	2,208.07
Balance—Germania Savings Bank of Pittsburg.....	3,731.52
	\$7,214.48

On behalf of the committee appointed last year for the purpose of conferring with the officers of the National Council of Horticulture and others interested in the purposes of that body, Alexander Wallace made a report as chairman, setting forth the objects of the organization and quoting from a letter received from Secretary H. C. Irish of St. Louis. The council had had one meeting in Cleveland and had thus far confined its work to the distribution of information on horticultural subjects through the public press. The committee believed that this work should be continued and that a sum of money for this purpose should be contributed by the Society of American Florists, as had already been done by the American Seed Trade Association.

Philip Breitmeyer endorsed Mr. Wallace's views of the value of the work done by the Council. J. C. Vaughan also spoke in approval. A motion was then passed recommending to the executive committee an appropriation of two hundred dollars towards the expenses of the Council and the appointment of two delegates from the society to act as members of the Council.

On account of inability to secure the expected lecture for Wednesday evening it was voted to change the program, placing the paper "The Ideal Private Gardener and His Work," by Fred E. Palmer, on for Wednesday evening and assigning the discussion of the president's address to that session also.

On account of the inclement weather and wet grass a change in the plans for Tuesday evening was made and the president's reception and entertainment by the National Cash Register Co. was held in Welfare Hall instead of at Far Hills. Supper was served at 6 o'clock. The address of welcome was made by Acting General Manager William Pfum, after which President Kasting and party received and shook the hands of over eight hundred members and their ladies. A stereopticon talk with beautiful garden and floral views from all parts of the world followed. The secretary was instructed

to cable President John H. Patterson in Europe as follows:

"Enjoying your hospitality; appreciate your great work for humanity."

For variety and extent the trade exhibition at Dayton fully equaled that of any previous display. Especially deserving in effect were the plant groups from H. A. Dreer, John Scott and Julius Roehrs. There were many other large and beautiful displays which will be fully described next week. Much attention was bestowed on H. H. Barrows & Son's Whitman fern and the new variety N. Amerpohlii. C. Winterich had a fine showing of young cyclamen plants. Bulbous stock was exhibited in big array by many dealers. Arthur Cowee's four tables of gladioli were the chief feature in the cut flower section. The Livingston Seed Company's new begonia *Semperflorens* attracted much notice. Among the appliances occupying the outer circumference of the main hall the Holly-Castle circulator and King Construction Company's twin green-

J. Stewart by W. W. Castle; for vice-president, John Westcott, S. S. Pennock and Leo Niessen by several members; for secretary, H. M. Altick by Wm. Scott and P. J. Hauswirth by W. F. Gude; for treasurer, H. B. Beatty by W. W. Coles. The proposed amendments to the by-laws were adopted. The death of the brother of ex-president O'Mara was announced and a telegram of sympathy sent. E. V. Hallock presented his report and able address on "Horticultural Instruction in the Public Schools," and was followed by many others on the same topic.

His committee was continued and Messrs. Palmer and Cowell were added to it.

The meeting on Wednesday evening was well attended. The judges' reports on the trade exhibition and the display of landscape plans were presented. Both will be published in full next week.

Owing to a miscarriage in the mail the prize essays were not acted upon by the judges. F. E. Palmer read his address on "The Ideal Private Gardener and His Work." This will appear in full in next week's issue.

The discussion on the president's address brought out a great debate on glass and other goods which was participated in by W. W. Castle, W. H. Elliott, E. G. Hill, Benj. Hammond, Chas. Lenker, Wm. Scott, J. C. Vaughan and A. Wintzer and a vote was unanimously carried instructing the joint committee on organization to ask Congress for a reduction of duty on hot-house glass.

THE BOWLING CONTEST.

Philadelphia finished first in the bowling contest with a score of 2350 for the three frames with a five-man team against Washington, Cleveland, Chicago, New York, Baltimore and Detroit. The other teams finished in the order named. The winners carry off the Beatty Trophy, the Kasting Cup and a silver match box to each of the five members on the team. Washington which put up a strong fight and finished second, carried off the trophy donated by the Crawford, McGregor & Canby Co., of Dayton, and gold sleeve buttons to each member. A prize cup was the share of Cleveland which finished third. Consolation prizes were won by Detroit which finished last. The score was as follows: Philadelphia 2350, Washington 2274, Cleveland 2142, Chicago 2065, New York 1957, Baltimore 1956, Detroit 1949. In addition to the team contests there were prizes for the individual bowling which brought out some fine scores. Ernest of Washington scored 353, Seybold of Baltimore 347, Asmus of Chicago 344, Connor of Philadelphia 328, Graham of Philadelphia 320. Greatest number of strikes, Seybold, Baltimore; greatest number of spares, Bergman, Chicago. At the same time a contest was arranged for the ladies at Lakeside Park and was contested with great enthusiasm, some twenty-seven of the fair ones taking part.

ELECTION OF OFFICERS.

The election of officers on Thursday morning resulted in the unanimous election of William J. Stewart for president and H. B. Beatty for treasurer. Philip J. Hauswirth was elected secretary, and John Westcott vice-president. Mr. Westcott declined to serve.



PHILIP J. HAUSWIRTH,
Sec. Elect S. A. F.

houses were conspicuous. The usual displays of boilers, greenhouse models, flower pots, etc., were put up by the old standbys. The upper floor was devoted to baskets, ribbons and general supplies. Bayersdorfer & Co. surpassed themselves in extent, variety and beauty of their novelties. Reed & Keller, S. S. Pennock, Schloss Bros., L. Wertheimer & Co., all made rich displays.

The meeting on Wednesday morning was electrified by a characteristic address by James L. Cowles, secretary of the Postal Progress League, which resulted in a unanimous resolution endorsing the bill before Congress for the consolidation of third and fourth class mail matter. The selection of a location for the next Convention brought out much oratory. The mayor of Niagara Falls appeared in person to press the merits of his city, but Philadelphia, under the leadership of Robert Craig and John Westcott, won out by a plurality of thirty votes.

Nominations for officers were presented as follows: for president, Wm.

Extracts from State Vice-Presidents' Reports, Read at Dayton Convention of the S. A. F.

C. D. Mills, for Florida.

The past year has been a very prosperous one in this state in all lines of business, and I am confident that while the florists and horticulturists have contributed to that prosperity they have also received their share of it, and while I do not note any great advancement in florist lines I consider the business in a good sound condition.

Some new glass has been put up in St. Augustine and Tampa. The demand, however, is not large locally, for Florida has no large cities, neither is the demand steady as in more thickly populated states. Then we are so far from a good market and our express rates are so high that the grower with a surplus is up against a loss, consequently the disposition of the craft is to go slow, keeping a weather eye on general conditions and only increase the supply as fast as the local demand promises to use it.

In conversation and correspondence with the florists of the state the impression seems to prevail that cost of attending the conventions, on account of the long distance we have to travel and in view of the restricted limitation placed on the tickets by the railroads, is too much for what we receive. If there was a longer time allowed (say 30 days) on the transportation, a man could stay away long enough to get his money's worth.

Most of the florists down here do not have a superabundant supply of the coin of the realm; in fact, the nimble dollars that we read about are so nimble down here that the average florist has hard work to corral enough of them to pay the hired man and keep hog and hominy on the table. Consequently I'm sorry to say that I do not think Florida will have a large delegation at Dayton this year.

But I am glad to report that the florists and nurserymen are not retrograding; they are making steady and permanent advancement, not only in the old well-trodden ways, but also in the newer paths of theory and experiment and every year we are finding it possible to do, to grow, and to produce in Florida things that have heretofore been considered impossible. And are fast demonstrating to the outside world that Florida sand (which is poor enough, God knows), will grow something besides oranges and pineapples. So wiping the beads of perspiration from our brow, and taking another hitch in our trousers, we are constrained to say that from a florist's standpoint the outlook is all right and we feel reasonably certain that in due time we "shall reap if we faint not."

H. C. Schmeiske, for Massachusetts (West.)

Many perennials are becoming naturalized in Berkshire county, and are often found growing by the roadside, where I have picked up *Pentstemon laevigatus* (in some catalogues *Digitalis*), *Eupatorium Fraseri*, *Lythrum roseum superbum*, *Mesperis matronalis*, *actaea* (baneberry) *Anchusa Stalica* and so forth. Of hardy asters we have a large variety. Of ferns we have upwards of forty to forty-five

kinds. We also have a grand round hemlock that is indispensable in shady places where grass will not grow under trees.

Our society in Lenox has a membership of over one hundred, and is very prosperous. We have three flower and vegetable shows in the summer. In winter the society has games and entertainments which are also very interesting.

J. E. Jackson, for Georgia.

For several years past there has been no room for complaint in the sale of cut flowers and plants. The past season shows a very decided increase in all branches. There has been added to places in Atlanta about 100,000 square feet of glass the past season, and yet there is room for more.

A fine opening for a number of small growers in and near Atlanta to grow each some few special things, and these openings will have to be filled by parties from East, North, or West, as experienced help is a scarce article here.

To very much promote the interest of the society here, it will be necessary to hold a meeting somewhere in the South in the near future.

Hugh Seales, for Alabama.

As vice-president of Alabama, I have the pleasure of submitting the following report:

Reports from the various florists in all parts of the State to whom I have sent circulars state that business has been exceptionally good during the past season. There has been approximately twenty-five thousand (25,000) feet of new glass erected during the past year. Birmingham claims about fifteen thousand feet. The growers of our State are awakening to the fact that competition is the life of trade.

I tell you brother florists, Alabama is getting to be an enterprising State. Every one has a hustle on, and the prospects are looking bright for the coming season.

P. A. Chopin, for Louisiana.

As vice-president for the State of Louisiana I herewith submit this, my report for the past year:

It gives me much pleasure to be able to state that much progress has been made in every line of our profession in this section.

Within the past year horticulture in its many branches has made considerable headway, and it appears that the growers of this State are beginning to reap what justly belongs to them in a horticultural way.

For many years the profession in our State has been conducted in a rather modest way, when we consider the natural advantages we possess and the adaptability of our soil and climate to the growth of many tree, shrub, plants, flowers, etc., formerly purchased from northern firms. Within the past year or so the craft appear to have awakened considerably, and to be making greater efforts to secure business from a larger area, and to be doing things on a much larger scale than provided heretofore.

Where it was the custom a few years ago to send to our northern neighbors

such a stock as Bay Tree, *Aspid. Arabiaris*, etc., in dozen and 100 pound lots, we now import direct from Belgium in 500 and 1000 lot. *Arceuthobium* and *Kentia* are grown in 1,000 lots, from seed imported direct from the tropics and often grown to salable size without spending a cent for coal, being wintered over in cold frames and summered out-doors with a slight lath protection against the rays of the sun.

That there has been a general awakening is evidenced by the organization of the Society of Southern Florists, which was born of the New Orleans Horticultural Society and formally organized at Chattanooga, Tenn., on May 22nd past. Being president of the New Orleans Horticultural Society at that time, this movement to organize a southern society was launched. I can say that I do not believe it will in any way affect the usefulness or membership of our National Society; but owing to the vastness of the territory covered by the National Society, and entirely different methods being required for our southern climate, it has been deemed necessary to call together in annual convention southern growers and dealers, where methods strictly southern would be discussed.

It is not so very long ago that the bulk of the plant business of our State was done by northern firms through their catalogues, and our local firms catered strictly to the trade in the immediate vicinity of their establishments, but at present we have several firms who spend thousand of dollars on their own catalogues, and ship to nearly every State in the South and to Central America also.

It has long been the custom for our retail florists to send to northern cut flower centers for their supply of choice cut flowers, but within the past years there has been constructed in the suburbs of New Orleans a magnificent range of glass for the growth of fancy cut flowers. With the increasing demand for choice cut flowers in this section, establishments of this kind where fancy flowers can be had in wholesale lots at a moment's notice and perfectly fresh at that, will be of great benefit to our retail establishments, who heretofore were compelled to order their flowers from nearly a thousand miles away, and many times when received were in a withered condition and not fit to use.

During the month of November of last year there was held in New Orleans under the auspices of the New Orleans Horticultural Society, a fall flower show in which the special feature was the exhibition of chrysanthemums, and while the season for their culture had been exceedingly unfavorable, the exhibits were quite creditable and in the cut flower classes could not be surpassed. This was the first flower show held in years that did not prove a financial failure.

There is a steady increase in the interest displayed by the public in the cultivation of plants and flowers, and to show to what an extent it has developed I might mention the organization of the New Orleans Floral Society, an organization composed of

plant and flower lovers that numbers among its members many prominent society leaders, and whose purpose it is to increase the cultivation of plants and flowers among the people and by its system of dues guarantee to the New Orleans Horticultural Society that it will incur no financial loss at any of its future flower shows. This society will no doubt be of great benefit to us and will encourage our exhibitors to greater efforts.

Harry Donnelly, for Texas.

From a commercial viewpoint all the evidence at hand speaks of progress. Texas is beginning to realize that she can grow cut flowers, and one prominent grower of Dallas has made a start in the right direction, having put up this year 100,000 square feet of glass, with the intention of doubling it next year. These houses are up-to-date houses, and no expense spared to make them the best in the country; he will grow all the new kinds of roses and carnations along with the best standard sorts, also the general run of cut flowers, and greens, doing a wholesale business only. It is such a place as the small florists of this State have been needing where they can get the flowers in a hurry and much fresher flowers than they can get from the North, where they have been getting them in the past.

All over the State reports come in of new houses going up for retail use, but one of the great things the florist of this State has to contend with is to get expert help; there is a good chance for such help down here, and after getting used to the weather and the State they could get good wages.

In cut flowers carnations have been grown more than any other flower. Roses under glass up to the present haven't been a success, although a San Antonio grower does them well, and I think some of the other growers will take rose culture up in the near future; roses do fine out in the open ground, and can be cut up to November.

F. L. Schulz, for Kentucky.

In the western part of the State coal is very cheap, and there has probably been more building in that section than any other. We have had plenty of rain, but not enough to cause much loss. Our annual Carnation and Rose Show was again a great success. Nearly all the new varieties were on exhibition. I hope to sometime in the near future see the convention landed for Louisville, "The Gateway to the South."

John Birnie, for New Jersey.

The part of New Jersey in which I am located is so near New York City that it is practically a part of it, therefore all stock, both cut flowers and plants, finds its way there—the cut flowers to the commission district or the several markets established near there, and the plants disseminated from the plant market at Spring and Canal streets. Everything is sold at wholesale at all the places mentioned.

The demand for cut flowers of all kinds is on the increase, especially the finer grades, the carnation evidently considerably ahead as to popularity. The chrysanthemum is still a favorite in its season, but does not seem to hurt the sale of other flowers as it

used to do. Carnations, roses, etc., have brought remunerative prices and been in good demand all through the chrysanthemum season for several years.

The decorative plant business is also on the increase. Several New Jersey firms have gone out of the cut-flower business and now grow decorative plants exclusively. The demand for bedding plants increases every year, the geranium decidedly in the lead. There is also a marked increase in the demand for window box and vase plants. The shipping trade is also growing.

The prospects for the coming season are good; carnations in the field, although small owing to the dry weather in early summer, are healthy and many growers are busy at the present time getting them housed.

W. N. Craig, for Massachusetts (East.)

It gives me pleasure to herewith present my report on trade conditions in Eastern Massachusetts during the past year which, taken all in all, has been the most prosperous one our florists have ever experienced.

Prices in the cut flower markets have not shown any advance, but an increasingly large volume has been disposed of not only in Boston, but in many other cities in this part of the old Bay State. Carnations have proved more popular than roses, and have frequently cleaned out well when many roses were unsold. First-class stock never fails to sell, no matter what the flower may be. Single violets meet with a rapidly increasing sale and net much higher price than the doubles, this is not surprising when their fine color, length of stem and size are considered. Orchids are meeting with more favor at the better class of retail stores, and many more would be sold were there not so many private collections amongst our wealthy flower lovers. Chrysanthemums have considerably declined in popularity and do not now prove a very remunerative crop. The taste for big blooms which originated in Boston has largely died out and medium sizes or undisbudded sprays are preferred by many of the most critical buyers. We believe this tendency towards smaller blooms will gradually spread to the cities.

A moderate amount of glass roof has been built during the past year, but quite a number of new firms have started which goes to show that business is in a healthy state. A considerable area of glass devoted exclusively to the framing of cucumber, tomatoes and lettuce, has been erected. Massachusetts is noted for these productions and prices during the past season have generally been satisfactory. Quite a number of florists find it profitable to grow catch crops of tomatoes and cucumbers during the summer months.

There is a constant growth in the number of private estates requiring the services of skilled gardeners, and a good many houses have been built for the culture of flowers and fruits on these estates. The steady addition to the number of greenhouses on private estates seems to make no difference to florists' trade, as we seldom hear of any of them selling their productions as is commonly done in some States.

We have had during the present year some notable exhibitions and conventions at Horticultural Hall, Boston. In

January, the Carnation Society gave us a rich treat; in March, the American Rose Society produced the finest exhibition of the Queen of Flowers ever held in America; in June, the smaller but none the less excellent Peony Society met with us, and provided another good show. The regular exhibitions of the Massachusetts Horticultural Society have also been of a high standard.

The Gardeners' and Florists' Club of Boston continues to grow and prosper. It now has—August, 1906—over 330 members, with prospects of a heavy increase the coming fall. Membership is pretty equally divided between commercial growers and private gardeners. Meetings are always largely attended. The North Shore Horticultural Society and other clubs and societies in this part of the State are all in a prosperous condition.

The demand for good pot plants in flower has been very noticeable at the holidays; some of our best growers are realizing the needs of our market and are producing better stock than has been brought in from other plant-growing centres. Ornamental trees and shrubs of the more popular sorts should prove a remunerative branch for some florists; the demand for these shows a wonderful advance.

Conditions for the coming season are very promising, and we look for good business during the season of 1906-7.

RECENT IMPROVEMENTS IN RETAILERS' METHODS OF OFFERING FLOWERS.

A paper by W. F. Gude of Washington, D. C., at S. A. F. Convention at Dayton.

Being requested to read a paper and lead a discussion on recent improvements in retailer's methods of offering flowers for sale, personally I should much prefer the discussion to reading a paper. However, I know no better way than to give my own personal experience of the past twenty years in the retail florist's business at the National Capital where we think we have some up-to-date flower stores. There is probably no business or profession that has seen a greater change in the last decade, than the retail florists', or has made greater strides. I am sure that no class of men has worked harder or had longer hours than they.

Right here, I want to say we too often hear the cry, "things are not as they used to be." This expression is too commonly used by a great many people engaged in the retail florists' business. "Things are not as they used to be" is not true in the sense it is given, while I do not doubt it is absolutely a fact in a great many cases, among the men who make the remark, because they have the same old foggy methods and manner of doing business used years ago, whereas, the wide-awake florist with the proper push, has gone ahead and adopted new and modern methods, with the inevitable results that he makes more money with less work and the old-timer has been left with his old-fashioned ideas—while the former has reason to thank the powers that be that "things are not as they used to be."

SOME OLD TIME METHODS

Sending flowers in old shoe and hat boxes; delivering funeral designs in a farm wagon; taking a man in his

greenhouse togs to a fashionable home to cary plants and help decorate, tying bunches with narrow, cheap ribbon, cut swallow-tailed, sending bridal bouquets wrapped in paper, telling a patron the flowers he wants are out of date, because they are not in stock.

I have been in flower-shops when a customer would leave an order for a wedding, birthday, or funeral and explicitly state the time he wanted the flowers delivered, and, in many cases, to my personal knowledge, the flowers were sent after the occasion was over so that the sentimental effect was entirely lost, the opportunity to use the flowers forever gone. The result invariably is—the next time the customer in question wants to buy flowers, he tries some place where he has reason to expect that his purchase will be delivered when and where he wants it in an up-to-date condition.

Again the old-fashioned way of delivering flowers, wrapped in any old piece of paper and delivered by some ragged dirty messenger, is not conducive to bringing the retail florists' business up to the plane of the modern up-to-date requirements which it so justly deserves. Also the old-fashioned method of tying flowers on toothpicks with wire, without any foliage, which was so popular years ago, has been almost entirely eliminated and a more natural system is now demanded by the average buying community. So much for the old methods.

The present up-to-date method followed by us is to have the flowers received fresh every morning, then properly assorted and arranged in large storage rooms where mirrors on all sides show them off to the best advantage.

One of the most important items is booking orders. In a great many establishments the old way of taking orders for any kind of flowers for commencements and debutantes' receptions, etc., knowing it is a question whether they can be secured, then substituting another kind at the last minute is an expensive one. What a great disappointment to a mother who, thinking she has a pleasant surprise for her daughter at the graduation exercises or some other function, orders a bunch of pink roses, and receives red carnations instead. Her patronage is then lost—she has no more confidence in that establishment.

EMPLOYEES.

We have an up-to-date corps of clerks and employes who are able, capable and willing to wait on customers intelligently, and do not try to sell them a pink rose for a white one, or calla lilies for lilies of the valley. They do not work any more like they used to. They used to get up at 5 o'clock in the morning and work until 10 or 11 o'clock at night for a very small compensation. It is fortunate that "things are not as they used to be" in this case. Employes in a retail florist's store should come in for full consideration and just treatment because it is impossible for any one man to wait on every customer that comes to inquire about flowers. There are naturally, as in all other kinds of business, people with all sorts of ideas and in many cases hard to please. All of these should be studied and their peculiar fancies catered to, as much

as possible if they are worth the price, for a satisfied customer is the best possible advertisement that anyone can have. Right here the employe who goes to extra trouble to cater to the whims of this particular class of customer and does not tire or hile when he or she comes in, is entitled to a great deal of consideration which alas he often does not receive. I have found invariably that by studying the clerks' interests they are in much better position to study the employer's interests, for it is only too true that florists work longer hours for less money than almost any other class of working men requiring an equal amount of intelligence. The clerks and employes in a retail florist's store can do very much towards increasing or decreasing the sales and profits by strict attention or inattention to details in the business. It has always been our aim to keep the employes satisfied and where we succeed in doing that, they invariably succeed in satisfying us.

PUTTING UP ORDERS.

This to our estimation is one of the most important items connected with the retail florists' business. As time cuts quite a figure in this part of the business, if the flowers are put up too early they will be apt to wither, and if too late they cannot be delivered in time, hence, this branch of the business requires constant care and exercise of judgment in order that the flowers may reach the parties interested in the best possible condition. Another very important item, is to send the customers exactly the quality and quantity promised for a given amount of money and not try to slight them with the thought or idea that they will never know the difference. This might do once in a while, but one is bound to be caught in the act, sometime, and with a very ugly reflection on the integrity of the house. Here it may be well to state that the politeness and intelligence of the driver or messenger who may happen to deliver the flowers will either reflect credit or discredit upon the establishment.

WINDOW DISPLAY.

The old methods of trying to show the public how many plants a florist can put in a window was buried with the paper collar for bouquets. The window bottom of sand, gravel, and zinc has been given place to tile and mirror effects. A florists' window is the same now as that of the other up-to-date merchant who displays his finest goods to tempt the public to buy. A customer can form a pretty good idea of the florist's ability to create and execute artistic effects by his window display. For instance when we have a surplus of any particular kind of flower a window tastefully arranged with vases, baskets, etc., of this same flower, has time and again been the means of cleaning up the entire surplus at a good profit. A window display on January 29th, President McKinley's birthday, with a portrait of him, a few American flags and a nice assortment of carnations tastefully arranged, will demonstrate what a window decoration can do. I would advise you to try it January 29th, next.

USE OF RIBBONS.

The use of ribbons in the retail

business has long been a matter of business. Some of the old methods ribboned and tied flowers at a disadvantage on account of arrangements of flowers and the property used are a great improvement on the up-to-date floral arrangements.

DELIVERY OF FLOWERS IN VASES AND JARDINIERS.

In our city in particular is a constant demand for bunches of flowers at all seasons of the year, to be sent to the various offices or departments of the United States government. In these cases it is often necessary to have a suitable vase or jardiniere to offer to go with the bunch of flowers that they may be delivered in good presentable condition, and their lasting qualities preserved by the stems being kept in water while in the office of the recipient.

In conclusion, to manage and run an up-to-date flower store. First, it is necessary to be conservative in buying. When I say buying, I mean not only cut flower stock, but plants, ribbons, jardiniere, florists' supplies of all kinds, and especially boxes and paper to suit all sizes of bunches and qualities of flowers. This is very important.

Second: Having the necessary receptacles and supplies to go with the flowers, be sure to have good fresh stock at all times to show your customers and give them what you claim to sell.

Third: After the former two, be sure to deliver the flowers as promised, on time, when promised, and in good condition.

TEACHING HORTICULTURE IN THE PUBLIC SCHOOLS.

The following is an abstract of the plan devised by E. V. Hallock's committee and advocated by that gentleman in his address before the S. A. F. on Wednesday forenoon:

GREAT NEED OF STANDARDIZING AND CENTRALIZING THE CONTROLLING POWER.

After careful research and study of reports and methods now in vogue, we wish particularly to call your attention to two matters: first, the absence of text-books in all the present methods of teaching horticulture, and second, the lack of concerted action among the different associations conducting that work, be they civic, philanthropic, or educational.

This state of affairs we consider fortunate. The first because it does not require any great preparation, and makes possible the starting of an S. A. F. method sooner than it could otherwise be started, since no elaborate system of text-books is essential. The second, inasmuch as individual persons and organizations have accomplished so much and demonstrated so thoroughly that the interest of the people is already all that could be desired that we feel confident if this work can be placed upon a methodical, systematic, concerted plan—in other words, if the entire school system of horticulture can be standardized suitably for each grade of school, suggested by the S. A. F. and adopted by the different boards of education—we see no reason why this teaching of horticulture should not cover the entire land in a few years.

In all the methods of teaching by the different organizations at present,

we find no text-books are given to the pupils. Leaflets are compiled and issued to the teachers and also to pupils, in some cases by the boards of education, for the guidance and help of each.

Leaflets.—These leaflets of instruction for the use of teachers should emanate from a committee of the S. A. F. They should be placed in the hands of the State Board of Education who will attend to distributing the different grades of leaflets to the different grades of schools; namely the rural common schools, the Union and high schools, and the primary and grammar grades, compiled with special reference to the conditions prevailing in each grade.

We also suggest, for schools that have become somewhat advanced in garden work, and for pupils that have shown interest, that leaflets and small, simple pamphlets be prepared, containing plain illustrations of flowers, giving the botanical parts, also botanical names of the common trees, plants and flowers, and others giving simple explanations of what is meant by "annuals," "biennial," "hardy," "perennial," and other matters that are met with in every-day life. Even these simple leaflets and pamphlets are not to be given out to the pupils until they show sufficient interest in their work. This plan can be elaborated as conditions seem to require.

NEED OF STANDARDIZING.

On careful perusal of all documents and reports that we could obtain we find no two schools or organizations conducting their garden-work on the same lines, but each pursuing their work according to their own ideas, and as seems best to them. Great good has undoubtedly come from these disjointed efforts, but greater good will undoubtedly come from concerted action, emanating from some central authority, thoroughly standardizing their work.

We have suggested dividing the schools into three classes, so that we can better meet the conditions and environment known to exist in schools of each class. In this case, we should issue three series of leaflets of instructions, diagrams, and routine work. The latter could be taken largely from the methods now in force in the various school-gardens.

INSTRUCTIONS TO TEACHERS.

Eesides placing the leaflets and pamphlets in the hands of the different teachers, we suggest that one of the trustees should familiarize himself with the proposed methods, using some of the fuller reports of some of the specially conducted schools of this nature, to get a general idea of how the plots are laid out and cared for near the schools, or plots loaned by people at a little distance from the school and the home-garden.

If no trustee feels equal or unequal to this simple task, he could easily call to his assistance a florist, a market-gardener, or even a good farmer in the community to help start the work. If the teachers lack in knowledge of any particular subject, they should be given to understand that they could call upon the trustee who would find a person competent to explain.

A Committee of the Massachusetts Horticultural Society comments very

favorably on the system of children's home gardens, stating that the Society first offered three prizes, then ten, and were much surprised when they received over two hundred entries for the ten awards. The Committee visited the home-gardens as far as possible, and found it was very encouraging to the children to do so. They state: "We still feel the children's home garden movement is a very important one." This Committee also gives prizes in connection with the home-garden system for best reports of work for the year.

Your Committee, in view of the reports on these methods, suggest as an intermediate plan, where conditions seem to favor the method, a Demonstration Plot in the school-grounds, where the teacher can fully demonstrate with each pupil the preparation of the soil, the application of fertilizers, and the planting of each kind of seed, both of vegetable and flowers. By this means, the depth and distance of planting seed of the standard kinds can be easily learned by the pupils.

The Demonstration Plot could be used throughout the season for simple talks, during the growth of the plants, even to the method of killing potato-bugs. The object of this Demonstration Plot is that it may be used in connection with the children's home-garden system. All instruction and knowledge, as it were, which the children carry home to use in their gardens, will come from this plot.

STATE TEACHERS.

The State might employ a few experienced garden directors or teachers to visit as many schools during the year as practicable. Schools should be able to call for this special aid where the subject is not sufficiently understood. The Committee on School Gardens of the Massachusetts Horticultural Society, after investigation says: "The great lesson learned was that children's gardens are successfully carried on when under the leadership of an experienced director or teacher. No matter how enthusiastically the work is undertaken, without a proper understanding of gardening it is usually a failure." The same Committee says: "There is a crying need for an institution in this State similar to that at Hartford, Conn., where school garden work can be taught."

In the course of time this study could be added to the curriculum of all normal schools, as it already belongs to that of several, these schools to furnish teachers with sufficient knowledge of the subject to follow the methods laid down.

LECTURES.

In educational matter of the present day, be it ever so low or so high, much instruction is imparted to the pupils by lectures and talks. In the rural schools it is not absolutely necessary that the talks or lectures should be given at specified periods. They could be worked in at times best suited to the convenience of the teacher.

At most of these lectures, the teacher should have one or two potted plants or some flowers, and some varieties of the common seeds; and it would not take any great length of time, not more than a year or two, perhaps, to make most of the pupils

familiar with the treatment of the common and most useful plants.

APPROPRIATIONS FOR CARRYING ON THE WORK.

In the matter of appropriations, all the different kinds of school-garden work derive their financial aid from different sources, which is of necessity a varying and somewhat uncertain amount. For carrying on this work, we want a certain appropriation for each grade of school. By way of illustration, but not a suggestion, we would say five dollars each for the rural schools, ten for the primary and grammar schools, and twenty for the union and high schools. We confidently believe that even an amount as small as this would be felt in a community, but we feel that by correlating garden work with other studies, the different boards of education would appropriate a larger sum.

But what must be made plain is that the appropriation should be a fixed factor in the expense of conducting the schools.

CHILDREN'S GARDEN CONFERENCES.

At least once a year there should be a public meeting in the form of a conference, where all persons interested should be invited to come and make suggestions, and lend their aid to this movement. The children should have a chance to talk a little on their ideas and work.

At a Children's Garden Conference, December 2, 1905, under auspices of the Massachusetts Horticultural Society, seven ten-minute addresses were called for to give opportunity for discussion. A unique feature of this meeting was a model garden-bed, illustrated by a practical exercise by a boy gardener and teacher. This conference brought together many people interested, and proved a great success in more ways than one.

At meetings of this kind, questions of civic government and general betterment of surroundings could be discussed.

RELATION OF SCHOOL GARDENS TO EXPERIMENT STATIONS AND AGRICULTURAL COLLEGES.

To some it may appear that the experiment stations and agricultural colleges conflict or compete with our movement. This is not the case. We should be content to call ourselves the common soldiers of this common cause, and we should be also content to be officered by experts from those institutions. They commence at the top and work down. We are commencing at the bottom and will work up. We wish to call on those institutions for lecturers, demonstrators, and instructors. We can work hand in hand with them, and we probably could not succeed without them.

SUMMARY AND RECOMMENDATIONS.

Your Committee now believes the work can be taken up with the end plainly in view. Whether it is on the exact lines laid down in this report, or better ideas from the succeeding Committee, is of little consequence.

We have, available, so many detailed reports of the workings of the various associations taking up the matter of school-gardens, so much data and so many working plans, a Committee

(Continued on page 215.)

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Seed Trade Topics

It is rumored that Prof. A. J. Pieters, Chief of the Bureau of Plant Industry, Dept. of Agriculture, Washington, D. C., is to retire from that position and take up the business of seed growing in California. No official confirmation of the rumor has been obtained, but it is the revival of a rumor which was in circulation last spring.

Mr. J. A. W. Tracy who is Prof. Pieters' chief of staff, is mentioned as his probable successor. Mr. Tracy who was married early in the summer, or rather late in the spring, has recently returned to his desk after an extended tour of the west including the Pacific slope.

The campaign against the free seed distribution has opened, and with the cordial backing of the National Grange and the state and local granges all over the country, it ought to be successful. Could this system of petty graft be submitted to the popular vote, it is safe to say ninety per cent. of the voters would be against it. It is hardly conceivable that a coterie of grating congressmen will be able to successfully resist popular sentiment much longer. It is estimated that nearly one-third of all the packet seeds used in the United States are given away by the Government. What other industry would long endure such an outrage? Decent regard by Congress for the interests of the seedsmen of this country is long overdue.

The Templin Co., of Calla, Ohio, have bought out the business of Walker & McLean at Youngstown, and will make the place a first-class seed and flower emporium. John Walker will have charge of the green-houses at Crab Creek as formerly. It is said that much of the shipping of the firm will be done from Youngstown, but the main offices of the Templin Co. will remain at Calla where the large nurseries are located.

Now Ready

Zirngelbel's Prize Pansy Seeds in trade packages, \$1.00 each. Giant Market, 2000 seeds; Giant Fancy, 600 seeds. Full directions with each package. AUGUSTUS ZIRNGIEBEL, Needham, Mass.

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100 Seeds	60c	1000 Seeds \$4.00
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NEWS OF THE CLUBS AND SOCIETIES

LENOX HORTICULTURAL SOCIETY.

The annual and perennial exhibition of this society at the town hall, Lenox, on Aug. 15, was the best summer exhibition in its history. The ladies of the summer colony were the principal competitors and there was considerable good-natured rivalry. Particularly fine were the collections of Phlox decussata, there being upwards of 60 varieties shown. M. T. Reynolds, gardener to Mrs. Edith Wharton, won in the class for 20 varieties of annuals. He has won this class for three years, respectively. R. Spears, gardener to Mrs. John E. Parsons, won in the class for 20 varieties of perennials, among which were Stenanthium robustum, Spiraea Davidiana, Rudbeckia maxima, Rudbeckia purpurea, Funkia subcordata grandiflora and Helianthus Dowelliana. In sweet peas Thos. Proctor, gardener to R. W. Paterson, was the principal exhibitor, and had a remarkable fine showing.

In vegetables F. Heeremans, gardener to W. D. Sloane, and A. H. Wingett, gardener to Chas. Lanier, were first in their respective classes. Mr. Wingett was also the most successful exhibitor in the fruit classes. Mrs. W. B. O. Field won the table decoration (ladies' class) with dark blue larkspur.

First-class certificates were given to A. H. Wingett for new dahlia Chas. Lanier, color, apricot yellow, flower very large; to M. T. Reynolds for seedling phlox, a white phlox of extra large size with a bluish pink eye; to S. Carlquist for Rubus rosaefolius (strawberry x raspberry). Diplomas were awarded to E. J. Norman, D. Dunn, A. Jenkins, W. D. Curtis, G. H. Folsom. Messrs. A. J. Loveless and George H. Thompson served as judges.

GEO. FOULSHAM,
Secretary.

PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The session of the club Tuesday, Aug. 7, was devoted entirely to business, and after the election of two new members the report of the picnic committee was heard, showing the disbursements exceeded the receipts by \$21.91, which was considered a very satisfactory showing.

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MASSACHUSETTS HORTICULTURAL SOCIETY.

In quality and extent the exhibit of Saturday, August 18, in Horticultural Hall has seldom been equalled by this society at this season. The blooms were in unusually good condition and seemed to bear out the oft repeated assertion that "this has been a great summer for flowers."

The Blue Hill Nurseries, and Robert Cameron for the Harvard Botanic Garden, had large collections of hardy herbaceous plants; asters in great variety were shown by H. B. Watts, Wm. Whitman, W. J. Clemson, J. O. Kristenson, gardener; W. W. Rawson's collection of dahlias included Jeannie Charmer, Helen Charbet, a set of the new Holland peony dahlias, and many novelties in the cactus type. One of the most notable exhibits was that of gladioli by John Lewis Childs of Floral Park, N. Y., in which his new variety, America, was prominent and received much favorable comment. There was a good showing of fruits and vegetables.

CINCINNATI FALL FESTIVAL ASSOCIATION.

Following is the schedule of prizes offered by the Cincinnati Fall Festival Association for Sept. 20, 1906: Table decorations, 1st prize, \$150; 2d, \$100; 3d, \$50. Bridal bouquets, 1st, \$35; 2d, \$25; 3d, \$15. Baskets, 1st, \$35; 2d, \$25; 3d, \$15. Wreaths, 1st, \$25; 2d, \$15; 3d, \$10. All entries must be made to the secretary of the Association by Sept. 11.

All baskets, bouquets, tables and wreaths must be in position by 12 o'clock, noon, on the day of exhibition.
F. W. BALL.

CLUB AND SOCIETY NOTES.

The annual flower show of the Grand Trunk Horticultural Society will be held on August 30 and 31, at Port Huron, Mich.

The Summer Show of the North Shore Horticultural Society will be held on the grounds of the Essex County Club August 29th.

The American Institute of the City of New York announces the chrysanthemum show and exhibition on Nov. 7, 8 and 9 at Berkeley Lyceum Building. The schedule of prizes is now ready.

A union has recently been consummated between the Bay Shore and Suffolk County societies (N. Y.) and the association will be known hereafter as the United Bay Shore Horticultural Society. The following officers were chosen: President, E. P. Strong; vice-president, William Stuart; secretary, Wm. McCullom; treasurer, David McIntosh; corresponding secretary, M. J. Connellon; exhibition committee, John Tobin, chairman, George Jayne, D. McIntosh, N. Yesek, J. Rogers, A. Rochane, N. Reil. The first exhibition of the new body will be held at the Opera House on October 25, 26, 27.

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" No. 1.....	5.00	to 6.00	6.00	to 8.00	10.00	to 12.00	4.00	to 6.00
" Lower grades.....	2.00	to 4.00	3.00	to 5.00	3.00	to 6.00	.50	to 2.00
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Golden Gate, Fancy	5.00	to 6.00	3.00	to 4.00	4.00	to 5.00	3.00	to 4.00
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" Crownatum.....	.75	to 1.00	to	to	to 1.50
Smilax.....	10.00	to 15.00	to 12.50	10.00	to 12.00	12.00	to 16.00
Asparagus Plumosus, strings.....	25.00	to 30.00	25.00	to 40.00	35.00	to 50.00	to 50.00
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 Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. McCARTHY, Manager
 66 Pearl Street, BOSTON, MASS.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

J.A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations
 A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

VICTORY

Strong healthy field grown plants, now ready, 1st size \$15.00 per 100; 2d size \$12.00 per 100; 3d size \$10.00 per 100.

A discount for cash with order.

GUTTMAN & WEBER, 43 West 28th St., N. Y.

CUT FLOWER MARKET REPORTS

BOSTON The market the past week has been in a deplorable condition both as far as prices and stock are concerned, the excessive heat and rains of the last few days having a bad effect upon both. Carnations are mostly from old plants, the field-grown not having put in an appearance as yet, and are not very plentiful. Roses have come in in large quantities but are small and mildewed, good ones being hard to obtain. Gladioli are in abundance, the largest shipments coming from New York, but the local stock has the best demand. Prices are low owing to competition.

BUFFALO Gradually home coming people are creeping into reminders that the summer is far gone and that autumn is only a little way off. September and the opening of schools will bring back the majority of people and from then on there will be a gradual stream of returning wanderers. Business the past week slightly improved in the cut flower line and at times was quite brisk. Good demands were had for select Beauties, asters, gladioli, lily of the valley, etc., and there was plenty to satisfy all. It was noticeable that a few fall weddings were on hand. Good carnations are not plentiful, but asters of select quality find a ready sale, while poor quality stock is abundant. The same may be said of gladioli. Demands were fair on Longiflorum and Japanese lilies. The week wound up exceptionally good. At the time of mailing this report roses are very plentiful, that is, the short grades.

COLUMBUS The past week has seen an especially good business for August. Prices are about as last week. Some very good American Beauty roses have appeared. Asters are in enormous supply, and as the quality is good very large quantities are being disposed of. There have been the past ten days more funeral flower orders than any time this summer, with the consequent result that all the florists have been kept pretty busy on the whole and very much rushed at times. Every road this week leads to Dayton; and now the event has really come all the craft are catching the fever and our city bids fair to be extremely well represented. On the whole trade is very good, considering the season with all the craft; we have been having lots of rain, and the heat continues intense.

INDIANAPOLIS The month of August so far has shown a decided improvement over July. There has

been considerable funeral work and general trade has been excellent. Asters, summer lilies and gladioli are coming in freely and of good quality. Beauties and other roses are in fairly good quality and supply, which would indicate that a number of growers are keeping their houses of teas over to run another season.

LOUISVILLE Business conditions last week were very satisfactory. Carnations, owing probably to the low quality, are not much used. Roses are good in quality and quantity, and find a ready sale. Asters are proving very satisfactory. Hardy summer blooming flowers can be had in great quantities, but find little demand. Lilies can be had in abundance.

PHILADELPHIA Asters and gladioli are the leading feature of the market at present. Both are of fine quality and in immense quantities. The later varieties of asters are the best in size that have been seen this season. Roses are getting a little more plentiful. Beauties and Kaiserins are good but other varieties are of poor quality.

Consul Thos. H. Norton of Smyrna calls attention to a recent postal regulation for the destroying or returning of flowers, bulbs, or entire plants coming through the mails from countries where phylloxera is prevalent. As a matter of fact, the great majority of the vineyards in Turkey are now infested with phylloxera. In the region tributary to Smyrna this is almost universally the case. All over the Empire American vines have been planted, and upon these are grafted the valued native varieties. As long as there is practically no restraint upon the commerce within the Empire in plants, vines, bulbs, etc., the new regulation is practically of no value in protecting the few regions not yet visited by the phylloxera. Although American vines of greater vitality are being introduced in every part of the Empire as the only effectual means of combating the evil, it is to be noted that a strict application of the law excludes their transmission through the mails.

The beauty and rapid advancement seen in the new hybrid schizanthuses foretell a future for this plant as a florist's flower. *S. Wisetonensis* is already recognized as a desirable Easter plant but we learn that the more recent introductions are a great improvement on this, being stronger growers and of more brilliant colors.

TEACHING HORTICULTURE IN THE PUBLIC SCHOOLS.

(Continued from page 210)
should be able to proceed with their duties understandingly.

But we must be doubly sure of the ground we take. We can not afford to make many mistakes at the outset or on fundamental lines. Our work must be humanitarian, logical, and in a manner to interest. Our progress must be slow and sure.

Our motives are altruistic and must remain so, or our efforts will fail. Neither this Association nor any other Association has any selfish motive concealed. No person or persons will have any advantages over any other person or persons. We shall work in an open field. In the advancement of Horticulture we are sure to prosper and added wealth and comfort will accrue to the individual, the community, the State, and the Nation.

When the time comes, and we ask of the State a recognition in the matter of school appropriations, let us do so with the consciousness of a righteous cause, and a knowledge that not one penny will be diverted from its proper use. We believe it possible that some of the money now appropriated by the Agricultural Department for distributing the commonest seeds can be diverted to the boards of education of the different States, for the purpose of school-gardens.

Finally your Committee recommends that a new Committee of five be appointed by the Executive Committee, the President and Vice-President of this Society to carry on the work as laid down in the report of your first Committee, or on any other lines they deem best. And that they be authorized to spend a sum not to exceed one hundred dollars for preparing leaflets, diagrams, routine instructions, etc., during the coming year.

NEWS NOTES.

T. H. Phelan has leased the greenhouses of A. T. Hoyt, Chautauqua, N. Y.

M. D. Reimers has purchased the business of Chas. W. Reimers at Louisville, Ky.

Arnold & Johnson of Quincy, Mass., have moved their business to 1361 Hancock street.

C. H. Blake of Nashua, N. H., is taking advantage of the quiet season to improve the interior of his greenhouses on Lock street.

The Ethelind Lord Floral Co. is the name of the new firm in Los Angeles, Cal., in which Miss Ethelind Lord and F. B. Raymond hold equal interests.

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Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, NEW YORK
Tel. 299 Madison Sq. Open 6 A. M. to 5 P. M.

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48 West 28th Street, NEW YORK
FINE ROSES FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

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THE WHOLESALE
FLORIST
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Phone 1664-1665 Mad. Sq. 43 W. 28th St.

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76 AND 78 COURT STREET
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A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
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THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
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AND CASH RETURNS
send your flowers to
Phil. F. Kessler
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Telephone 2921 Madison Square.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Aug. 18 1906	First Half of Week beginning Aug. 20 1906		Last Half of Week ending Aug. 18 1906	First Half of Week beginning Aug. 20 1906
Roses			Carnations, Fancy	1.00 to 2.00	1.00 to 2.00
Am. Beauty and Edgeley fan and sp.	20.00 to 25.00	20.00 to 25.00	Carnations, Ordinary	.50 to .75	.50 to .75
" extra	8.00 to 12.00	8.00 to 12.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
" No. 1	4.00 to 6.00	4.00 to 6.00	Lilies	8.00 to 10.00	8.00 to 10.00
" Lower grades	1.00 to 2.00	1.00 to 2.00	Gladoli	.50 to 1.00	.50 to 1.00
Bride & "Maid, fan and sp.	2.00 to 4.00	2.00 to 4.00	Asters	.15 to 1.00	.15 to 1.00
" Ordinary	.25 to 1.00	.25 to 1.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Golden Gate, fancy	3.00 to 4.00	3.00 to 4.00	Sweet Peas, bunches	1.00 to 4.00	1.00 to 4.00
" ordinary	.25 to 2.00	.25 to 2.00	Pignonette	..... to .50	..... to .50
Liberty, fancy	4.00 to 6.00	4.00 to 6.00	Adiantum Cuneatum	.25 to .50	.25 to .50
" ordinary	.25 to 2.00	.25 to 2.00	Croweanum	1.00 to 1.50	1.00 to 1.50
Richmond, fancy	6.00 to 8.00	6.00 to 8.00	Smilax	6.00 to 8.00	6.00 to 8.00
" ordinary	.25 to 2.00	.25 to 2.00	Asparagus Plumosus	10.00 to 25.00	10.00 to 25.00
Kaiserin, Carnot, Chateau, fancy	1.00 to 6.00	1.00 to 6.00	" & Sprenger, bunches	15.00 to 35.00	15.00 to 35.00
" ordinary	.25 to 2.00	.25 to 2.00			

ORCHIDS AT ALL SEASONS
WM. STUART ALLEN CO.
Commission Merchants in Cut Flowers
53 WEST 28TH STREET, NEW YORK
Telephone 356 Madison Square

Edward C. Horan
Wholesale Florist
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Furnish best stock at fair prices all the year round Send for quotations on fall orders
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Cut Flowers on Commission
A Reliable Place to Consign to or order from
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Consignments received, sold well and returns made promptly.
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NEW CROP**

FANCY FERNS

\$1.00 per 1000

GALAX \$1.25 per 1000

Discount on Larger Orders

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Michigan Cut Flower Exchange

WM. DILGER
Manager

Send for Our Weekly Price List on Cut Flowers

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Best Facilities for Supplying you at Lowest
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Best Flowers
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N. F. McCARTHY & CO.
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Headquarters in Western New York
FOR
ROSES, CARNATIONS
And all kinds of Seasonable Flowers
WM. F. KASTING
Wholesale Commission Florist, also Dealer In
Florists' Supplies and Wire Designs.
383-87 ELLICOTT ST.
BUFFALO, N. Y.
Give us a trial. We can please you.

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WE WANT ADVERTISING**
LET US GET TOGETHER

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122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
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Glassware Decorative Greens and Florists' Requisites.

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50-56 North 4th Street
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FLORISTS' SUPPLIES
BEST LINE IN THE COUNTRY

Do not keep your "I" on firms to see them
grow or to see if they are full grown, but
just glance around at the enterprising
florist supply house with everything new
for the trade. See us at the convention.

J. STERN & CO., 1928 Germantown Av.,
PHILADELPHIA, PA.

Look through the Buyers' Directory
and Ready Reference Guide. You
will find some good offers there also.

SOUTHERN SMILAX
Now ready in limited quantities for immediate
use. Everything WORTH WHILE in
Southern Greens.

E. A. BEAVEN, Evergreen, Ala.
Lilies, Japanese Plants

BAMBOO STAKES

The Yokohama Nursery Co., Ltd.
31 Barclay Street, New York

NEW CROP BRONZE AND GREEN GALAX
\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.
WE HAVE VERY FINE CUT BOX WOOD,
DAGGER AND FANCY FERNS.
Fresh Northern, \$1.00 per 1000.
LYRATA, the best substitute for Smilax, \$7.00 per case.
Headquarters for all **FLORISTS' SUPPLIES.** Wire Designs,
Cut Wire, Letters, Immortelles, Cycas Leaves, Wheat
Sheaves, Ribbons, Corrugated Boxes, etc.
LAUREL FESTOONING, 5c. and 6c. per yard.
HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main 2618.

WHOLESALE FLOWER MARKETS. PER 100. TO DEALERS ONLY.

	CINCINNATI August 14	DETROIT August 20	BUFFALO August 13	PITTSBURG August 20
ROSES				
Am. Beauty and Edgely, fan and sp.	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00	20.00 to 25.00
" extra.....	15.00 to 20.00	15.00 to 20.00	12.00 to 20.00	15.00 to 18.00
" No. 1.....	8.00 to 12.00	6.00 to 8.00	6.00 to 10.00	10.00 to 12.00
" Lower grades.....	4.00 to 6.00	3.00 to 6.00	3.00 to 6.00	2.00 to 4.00
Bride & "Maid—Fan, and Sp.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	5.00 to 6.00
" Ordinary.....	2.00 to 4.00	3.00 to 4.00	4.00 to 5.00	..... to
Golden Gate, Fancy.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	..... to
" Ordinary.....	2.00 to 4.00	3.00 to 4.00	3.00 to 5.00	..... to
Liberty, fancy.....	5.00 to 6.00	4.00 to 6.00	5.00 to 7.00	..... to
" Ordinary.....	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00	..... to
Richmond, Fancy.....	5.00 to 6.00	4.00 to 6.00	6.00 to 7.00	..... to
" Ordinary.....	3.00 to 4.00	3.00 to 4.00	3.00 to 6.00	..... to
Kaiserin, Carnot, Chateaux, Fancy.....	..... to 6.00	4.00 to 6.00	6.00 to 7.00	..... to
" Ordinary.....	3.00 to 4.00	2.00 to 4.00	3.00 to 6.00	..... to
CARNATIONS				
Fancy.....	1.50 to 2.00	..... to 1.00	1.50 to 2.00	..... to
Ordinary.....	.75 to 1.00	..... to .75	.50 to 1.00	.75 to 1.00
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to .....	..... to .....	..... to
Lilies.....	10.00 to 12.00	10.00 to 15.00	3.00 to 15.00	15.00 to 18.00
Gladioli.....	2.00 to 4.00	3.00 to 6.00	..... to	2.00 to 4.00
Asters.....	1.00 to 2.00	.75 to 1.00	1.00 to 2.00	.50 to 2.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Sweet Peas.....	.20 to .35	.25 to .35	.15 to .25	..... to
Mignonette.....	..... to .....	..... to	1.00 to 1.50	.10 to .50
Adiantum Cuneatum.....	..... to 1.00	..... to 1.00	.50 to 1.00	1.25 to 1.50
" Croweanum.....	..... to .....	..... to	1.00 to 1.50	..... to
Smilax.....	10.00 to 12.50	..... to 12.50	..... to 15.00	12.50 to 15.00
Asparagus Plumosus, strings.....	40.00 to 50.00	25.00 to 40.00	25.00 to 35.00	40.00 to 50.00
" " & Sprengeri, bunches.....	..... to 55.00	25.00 to 35.00	25.00 to 35.00	..... to 50.00

Geo. A. Sutherland Co.
CUT FLOWERS
Florists' Supplies and Letters
34 HAWLEY STREET - BOSTON

Look through the Buyers' Directory
and Ready Reference Guide. You will
find some good offers there also.

The KERVAN CO. 20 WEST 27th ST., N. Y.
WHOLESALE DEALERS
Fresh cut Palmetto & Cycas Palm Leaves, Galax, L euc-
othic, Ferns and Mosses. All Decorat og Evergreens

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Advertisements under this head, one cent a word. Initials count as words. Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

AGRICULTURAL IMPLEMENTS. Thos. J. Grey & Co., 32 S. Market St., Boston. For page see List of Advertisers.

ARAUCARIAS. Godfrey Aschmann, 1012 Ontario St., Philadelphia. For page see List of Advertisers.

ASPARAGUS. A. M. Herr, Lancaster, Pa. For page see List of Advertisers. Yalaha Conservatory, Yalaha, Fla. Asparagus Plumosa Nana and Sprengeri.

ASTERS. W. J. Baker, Philadelphia. Fancy Late.

AUSTRIAN AND SCOTCH PINES. The F. E. Conine Nursery Co., Stratford, Conn. For page see List of Advertisers.

BAMBOO STAKES. Yokohama Nurseries, 31 Barclay St., N. Y. For page see List of Advertisers.

BAY TREES. Julius Roehrs Co., Rutherford, N. J. For page see List of Advertisers.

BERBERIS THUNBERGII. M. T. Twomey, Roslindale, Mass.

BOX TREES. Julius Roehrs Co., Rutherford, N. J. For page see List of Advertisers.

BULBS AND TUBERS. Joseph Breck & Sons, 47-54 N. Market St., Boston. For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., New York. Lily Bulbs. For page see List of Advertisers.

Yokohama Nurseries, 31 Barclay St., N. Y. Lily Bulbs. For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y. For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y. Fall Forcing Bulbs. For page see List of Advertisers.

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CARNATIONS. E. H. Pye, Upper Nyack, N. Y. For page see List of Advertisers. Chicago Carnation Co., Joliet, Ill. Field Grown Plants. For page see List of Advertisers.

CARNATIONS—Continued. H. W. Vose, Hyde Park, Mass. Field Grown Plants. For page see List of Advertisers. August Gaedeke & Co., Nashua, N. H. Field Grown Plants. For page see List of Advertisers.

CEMENT BENCHES. W. F. Kasting, Buffalo, N. Y. For page see List of Advertisers.

CONIFERS. John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng. For page see List of Advertisers.

CUPS AND TROPHIES. Thornton Bros., Lawrence, Mass. For page see List of Advertisers.

CUT FLOWER BOXES. Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

Weich Bros., 15 Province St., Boston. For page see List of Advertisers. Edwards Folding Box Co., Philadelphia. For page see List of Advertisers.

CYCAS STEMS. J. M. Thorburn & Co., 33 Barclay St., N. Y. For page see List of Advertisers.

CYCLAMEN SEEDS. R. & J. Farquhar & Co., 6 & 7 So. Market St., Boston.

C. Winterich, Defiance, O. Giant Cyclamen Plants and Seeds. For page see List of Advertisers. O. V. Zangen, Hoboken, N. J. Giant Cyclamen Seeds. For page see List of Advertisers.

DAHLIAS. David Herbert & Son, Atco, N. J. For page see List of Advertisers.

DECORATIVE PLANTS. A. Leuthy & Co., Roslindale, Mass. For page see List of Advertisers. Julius Roehrs, Rutherford, N. J. For page see List of Advertisers.

DRACAENAS. A. Leuthy & Co., Roslindale, Mass.

ELECTRIC CIRCULATOR. Holly Castle Co., 170 Summer St., Boston.

FERNS. A. Leuthy & Co., Roslindale, Mass. For page see List of Advertisers. H. H. Barrows & Sons, Whitman, Mass. Nephrolepis Whitmanii. For page see List of Advertisers. S. S. Skidelsky, 824 N. 24th St., Phila. Whitmanii Fern. For page see List of Advertisers. H. N. Eaton, So. Sudbury, Mass. Boston Ferns. For page see List of Advertisers.

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FLORAL PHOTOGRAPHS. Floral Photographs. Foley's 226-228 1-2 Bowery New York.

FLORISTS' FERTILIZER. A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address J. W. Barwell, Blatchford's Calf Meal, Animal and Poultry Foods, Fertilizers, Karbo Dip, Seeds, etc., Wankegan, Ill. Established at Leicester, England, in 1800.

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FLORISTS' SUPPLIES.

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- H. Bayersdorfer & Co., Philadelphia, Pa.
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- The Kervan Co., 20 W. 27th St., N. Y. Decorative Evergreens.
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- N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.
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GREENHOUSE BUILDING MATERIAL.

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- Weathered Co., Box 750, New York.
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- Foley Mfg. Co., 471 W. 22nd St., Chicago.
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- Chas. H. Manley, Premier Mfg. Works, St. Johns, Mich.
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H. Troy, New Rochelle, N. Y.
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Wm. H. Plumb, 1133 Broadway, New York

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- J. Breitmeyer's Sons, Detroit, Mich.
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- George H. Cooke, Washington, D. C.
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- Samuel Murray, 1017 Broadway, Kansas City, Mo.
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- Gude Bros. Co., 1214 F St., Washington, D. C.
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- Eyres, 11 N. Pearl St., Albany, N. Y.
For page see List of Advertisers.
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Telegraph or mail orders promptly filled.
Long distance telephone connections.

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Anchor Greenhouse Hose.

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- The Kervan Co., 20 W. 27th St., New York.
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- Michigan Cut Flower Co., 38 and 40 Miami Ave., Detroit, Mich., Wm. Dilger, Mgr. Fancy Ferns.
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- E. A. Beaven, Evergreen, Ala.
Fadeless Sheet Moss; Lyrata.
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- L. B. Bragne, Hinsdale, Mass.
Hardy Cut Ferns.

LILIUM HARRISII.

F. R. Pierson Co., Tarrytown on Hudson, N. Y.
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MANETTI STOCK.

H. Frank Barrow, 26 Barclay St., New York.
Importer.
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MASTICA.

F. O. Pierce Co., 170 Fulton St., New York.
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Joseph Brock & Sons, 47-54 N. Market St., Boston.
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MOREHEAD RETURN TRAP.

Moorehead Mfg. Co., Detroit, Mich.
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MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co., 911 Chemical Bldg., St. Louis, Mo.
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Johnson Seed Co., 217 Market St., Phila.
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NARCISSI.

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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists
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Carrillo & Baldwin, Seaneus, N. J.
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Johnson Seed Company, Philadelphia, Pa.
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H. F. Michell Co., 1018 Market St., Phila.
Pansy and Cyclamen Seed.
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Augustus Zingelbel, Needham, Mass.
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PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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FLOWERS BY TELEGRAPH.

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J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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GALAX.

H. M. Robinson & Co., 8-11 Province St., Boston.
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Michigan Cut Flower Co., Detroit.
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Ray Bros., Elk Park, N. C.

GERANIUMS.

A. M. Herr, Lancaster, Pa.
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GLADIOLI.

Arthur Cowee, Meadowvale Farm, Bertha, N. Y.
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John Lewis Childs, Floral Park, N. Y.
Gladiolus Blooms.

GLASS.

Boston Plate & Window Glass Co., Boston.
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G. C. Watson, 9th & Market Sts., Phila.
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Glass, French and American "White Rose" brand. Stenzel Glass Co., 2 Hudson St., New York.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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HARDY PERENNIALS.

M. H. Walsh, Woods Hole, Mass.
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HEATING APPARATUS.

- Lord & Burnham Co., 1133 Broadway, New York.
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- Pierson U-Bar Co., 1 Madison Square, New York.
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- Hitchings & Co., 1170 Broadway, New York.
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- John A. Scollay, 73 & 75 Myrtle Ave., Brooklyn, N. Y.
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- Gurney Heater Mfg. Co., 188-200 Franklin St., Cor. Pearl, Boston, Mass.
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- Kroeschell Bros., 35 Erie St., Chicago.
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- Herendeen Mfg. Co., Geneva, N. Y. Furman Boilers.
- Johnston Heating Co., 1133 Broadway, New York.

HOT-BED SASH.

- The A. T. Stearns Lumber Co., Neponset, Mass.
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- Hitchings & Co., 1170 Broadway, N. Y.
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- Lord & Burnham Co., 1133 Broadway, N. Y.
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INSECTICIDES.

Hammond's Paint & S. S. Works, Fishkill, N. Y.
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Horleum.

JAPANESE PLANTS.

Yokohama Nurseries, 31 Barclay St., N. Y.
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KENTIAS.

Godfrey Aschmann, 1012 Ontario St., Philadelphia.
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PEONIES.

Gilbert H. Wild, Sarcoxie, Mo.
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Warnaar & Co., Sassenheim, Holland.
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H. A. Dreer, Philadelphia.
Herbaceous Peonies.
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Fine collection of Best Peonies. Complete Peony and Plox Manuals, 25 cents each. C. S. Harrison's Select Nursery, York, Nebr.

POINSETTIAS.

S. N. Pentecost, Cleveland, O.
For page see List of Advertisers.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Primula Obs. Grandiflora. 4 in. pots. \$6 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

PUTTY.

Beoj. Hammond, Fishkill on Hudson, N. Y.
Twemlow's Old English Glazing Putty.
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RHODODENDRONS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES.

M. H. Walsh, Wooda Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pye, Upper Nyack, N. Y.
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The Dingle-Comard Co., West Grove, Pa.
Roses on Own Roots.

American Beauties, 2 in., \$55.00; 3 in., \$80.00 1000. Cash. J. Henry Bartram, Lansdowne, Pa.

Roses, Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1/2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

1000 plants grafted Malds, 3 inch pots, fine stock, 2000 plants Richmond, own roots, 3 inch pots, very fine plants. Price \$10.00 per hundred, while they last. Cash with order. Robert Simpson, Clifton, N. J.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass.
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Joseph Breck & Sons, 51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co., 33 Barclay St., New York.
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H. F. Mitchell Co., 1018 Market St., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
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A. T. Boddington, 342 W. 14th St., N. Y.
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James Vick's Sons, Rochester, N. Y.
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W. W. Rawson & Co., 5 Union St., Boston.

Conrad Appel, Darmstadt, Germany, Es-ab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF,
Heller & Co., Montpelier, O.
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SIEVES AND SCREENS.
Hub Wire Works, 13 Devonshire St., Boston.

SMILAX.

J. C. Schmidt Co., Bristol, Pa.
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SPHAGNUM MOSS.

C. W. Brownell & Co., Walden, N. Y.
Peat, Moss and Silver Sand
For page see List of Advertisers.

FLORISTS' SUPPLIES—Continued.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIRAEA.

Warnaar & Co., Sassenheim, Holland.
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STEAM TRAP.

E. Hippard, Youngstown, O.

STEVIAS.

Stevia serrata, true, winter blooming, strong bushy, ready to shift, 3 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000. Asparagus Sprengeri, 2 inch, very strong, \$2.50 per 100; \$20.00 per 1000. Dean Ferris, Pecks-kull, N. Y.

STRAWBERRY PLANTS.

Wilfrid Wheeler, Concord, Mass.
Pot Grown.

VEGETABLE PLANTS.

Plainfield Nursery, Plainfield, Ind.
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VENTILATING APPARATUS.

Lord & Burnham Co., 1133 Broadway, New York.
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Pleron U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
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Weathered Co., 46 and 48 Marlon St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.
J. C. Moulner Co., 421 Hawthorne Ave., Chicago.

VIOLETS.

H. R. Carlton, Wiltoughby, O.
Violet, Gov. Herrick.
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Violets, Lady Campbell.
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WIREWORK:

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

WOOD LABELS.

Dayton Fruit Tree Label Co., Dayton, O.
For Nurserymen and Florists.

WHOLESALE FLORISTS.

Boston.

N. F. McCarthy & Co., 84 Hawley St., Boston.
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George A. Sutherland Co., 34 Hawley St., Boston.
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Welch Bros., 15 Province St., Boston.
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Peter Reinberg, 51 Wabash Av., Chicago.
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Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.

Detroit.

Michigan Cut Flower Exchange, 38 & 40 Main Av. Wm. Dilger, mgr.
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WHOLESALE FLORISTS—Continued.
New York.

Wm. Stuart Allen Co., 53 W. 28th St., New York.
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Philip F. Kessler, 55 W. 26th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McMann, 42 W. 28th St., New York.
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Chas. Millang, 50 West 20th St., New York.
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Frank Millang, 55-57 W. 26th St., New York.
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Perkins & Schumann, 50 W. 28th St., N. Y.
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John I. Raynor, 49 W. 28th St., New York.
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W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
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S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
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Edward Reid, 1526 Ranstead St., Philadelphia, Pa.
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Pittsburg.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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Pittsburg Florists' Exchange, 225 Diamond St., Pittsburg, Pa.
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New Offers in This Issue.

CYCLAMEN SEED.

Henry F. Mitchell Co., Philadelphia.
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FIELD GROWN CARNATIONS;
VIOLETS.

R. Engelman & Son, Pittsfield, Mass.
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FLOWERING PLANTS.

Bandisch & Co., Union Hill, N. J.
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FRENCH FREESIAS.

Wm. Elliott & Sons,
201 Fulton St., New York.
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HARDY PERENNIALS.

The Palisades Nurseries, Sparkill, N. Y.
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SMILAX PLANTS.

B. Kilbourn, Clinton, N. Y.
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SOUTHERN SMILAX.

E. A. Beaven, Evergreen, Ala.
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FLORISTS' HAIL ASSOCIATION OF AMERICA.

Summary of the Secretary's Report for Year Ending August 1st, 1906.

The 1,416 members of the Florists' Hail Association of America on Aug. 1, 1906, insured glass as follows:

Single thick glass, 5,011,030; double thick glass, 13,676,665; extra one-half single thick glass, 731,245; extra one-half double thick glass, 1,724,049; extra whole single thick glass, 1,340,292; extra whole double thick glass, 3,800,314; amount paid for losses from Aug. 1, 1905, to Aug. 1, 1906, \$4,612.51, being equivalent to an insurance upon 25,056,546 square feet of glass.

The total receipts for the year ending Aug. 1, 1906, as per treasurer's report, have been \$18,744.50.

The total expenditure as per treasurer's report has been \$8,244.66.

The cash balance at the close of the year is \$15,150.49, of which \$2,709.92 belongs to the reserve fund for future investment, leaving \$12,440.57 on hand for the emergency fund.

The reserve fund now consists of \$13,400, invested in excellent securi-

PRIVATE GARDENERS

WE wish to announce that we have established a department for securing positions for such that require them. Our services are absolutely free. We also wish to establish a complete up to date directory of those who are in employment. In order to accomplish this successfully, we require the assistance of every reader of this paper. If you will kindly send us your name linked with that of your employer, also of those whom you know, we would consider it a great favor.

Please Address **W. W. RAWSON & Co., 5 Union St., BOSTON, MASS.**

LIST OF PATENTS.

Issued August 7, 1906.

828,084 Glazing of Horticultural and Other Structures. Etienne Bouteille, Paris, France.

Issued August 14, 1906.

828,452 Weed Extractor. Henry Barry, Chicago, Ill.

828,646 Lawn Rake. Emil R. Frederick, Holland, Mich.

ties, nearly all of which would command a premium, and \$2,709.92 cash, making a total reserve fund on hand Aug. 1, 1906, of \$16,109.92.

Sixty-eight losses, representing a breakage of 37,321 square feet of single thick glass and 21,046 square feet of double thick glass have been paid during the year.

1,019 losses have been adjusted since the organization of the Association, involving a total expenditure of a little over \$101,000.

A series of hail storms in Central New York, Northern New Jersey, Eastern Pennsylvania and Delaware, did large damage, but the members of the F. H. A., with two exceptions, were not touched.

The apparent danger last year of an extra assessment did not materialize, and the Association commences the new year with a handsome balance both in reserve and emergency funds.

The unadjusted losses at the close of the year will aggregate less than \$500, which is the only liability of the Association.

By addressing the secretary a duplicate of any adjustment of loss can be obtained by any member of the Association at any time.

In these days of insurance investigation it might be well to mention that the F. H. A. has never paid a cent for office rent, fuel or light, and that the officials of the Association are both ready and willing at any time to give an account of their stewardship.

JOHN G. ESLER,
Secretary.

GREENHOUSES BUILDING AND PROJECTED.

New.

Stockbridge, Mass.—L. Bangs, one house.

Woodville, N. H.—G. S. Hamsburg, one house.

Watertown, Conn.—C. W. Jackson, one house.

Additions.

Fulton, N. Y. C. B. Wetherby, one house.

N. Easton, Mass.—J. H. Leach, one house

Jamaica Plain, Mass.—John Smiley, one house.

Nashville, Tenn.—Park Commission, one house.

Milwaukee, Wis.—Emil Welke, one house, 21x82.

N. Bridgeton, Me.—C. L. Chadbourne, one house, 20x50.

Saginaw, Mich.—W. Roethlis Florist Co., range of houses.

Montreal, Can. Harri & O'Brien, one house, 20x100, one 10x50.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR SALE—Five greenhouses containing 5,000 feet of glass, hot water heat, Town water. One acre of land. 10 minutes' walk from depot; 1 minute from electric. Near churches, stores and schools. For particulars write A. F. Belcher, Foxboro, Mass.

FOR SALE OR RENT—Place established twenty years, good local trade; no competition; town six thousand inhabitants. One acre land, greenhouses covering seven thousand feet, with or without stock; 75 sashes, 3x6. Houses heated by two No. 7 Furman steam boilers. A. S. Lamb, Wobchendon, Mass.

SITUATION WANTED—By gardener and florist; German; married; age 38. Experienced in every branch of horticulture, also orchids. P. Weizel, 20 N. Peach St., Philadelphia, Pa.

SITUATION WANTED—As private gardener on place where there is a range of greenhouses. Best of references. Over 7 years in last place. Expert rose grower. Married. Address J. J., care HORTICULTURE.

WANTED—Boy about 16 or 18 to do general work around greenhouses. Good wages and good chance to work into rose houses. R. Miller, rose grower, East Brookfield, Mass.

WANTED—To buy or lease, with privilege of purchase, one or two greenhouses with one acre or more of land. New England preferred. State terms. Address, L. M., care HORTICULTURE, 11 Hamilton Place, Boston, Mass.

WANTED—Young man, 22 to 26, to work in greenhouses; \$55.00 per month. Reply to E. D. B., Office of HORTICULTURE.

WANTED—Young, single man for fruit range, Palms and Violet Houses. Wages \$50.00. Reply to E. J. C., Office of HORTICULTURE.

WANTED—Young single man for Greenhouse, who understands grapes. Wages \$50.00 and board. Reply to R. M. C., Office of HORTICULTURE.

WANTED—Assistant for rose houses, one or two years' experience. Robert V. C., rose grower, East Brookfield, Mass.

Fine Silver Cups and Trophies

For Exhibition Awards, Sporting Events, etc.

FINEST ASSORTMENT IN THE COUNTRY FROM THE BEST MANUFACTURERS AND AT LOWEST PRICES.

THORNTON BROS.
LAWRENCE, MASS.

ARE YOU GOING TO BUILD?

I am interested in a glass factory. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted.

Not in the Trust ADDRESS

George C. Watson
DOBSON BLDG., 9th AND MARKET ST.
PHILADELPHIA - - PENN.

Remember this factory is NOT in the TRUST and has a tree foot.

Standard Flower . . POTTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money
W. H. ERNEST,
28th and M Streets, WASHINGTON, D. C.

YOUR GREENHOUSE

should be properly constructed with the BEST MATERIAL if you wish to grow the best grade of stock. For forty years the

JOHN C. MONINGER CO.

have been foremost in the manufacture of greenhouse material and you should write for our catalogue and prices when in need of anything.

117 E. Blackhawk Street, - - CHICAGO



In a Premier Greenhouse—

all good points are combined. There's durability, artistic appearance, ease of erection—and—ease of RE-erection.

It's a better house than is usually built; the price is ONE THIRD of that usually charged.

Send for booklet No. G-48.

Chas. H. Manley,

Premier Mfg. Works, St. Johns, Mich.

N. TONAWANDA, N. Y.

TORONTO, ONT.



BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

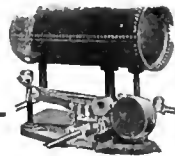
CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.



MOREHEAD RETURN TRAP

Keeps your steam heating system free from condensation.

Returns water to boiler whether located above or below coils.

SAVES FUEL, EQUIPMENT, LABOR AND REPAIRS.

Send for Catalogue.

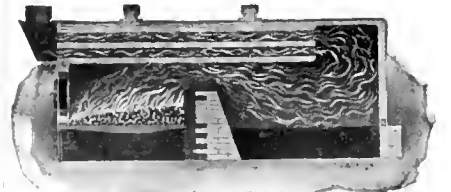
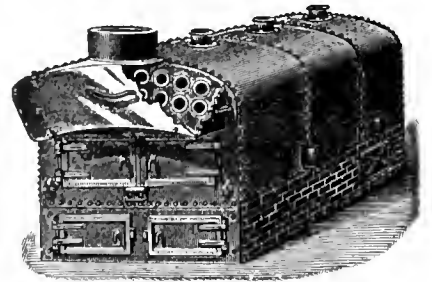
Morehead Mfg. Co.
1045 Grand River Ave. DETROIT, MICH.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

35 Erie Street, CHICAGO.



Boilers made of the best material: shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

WEATHERED COMPANY

BOX 789, NEW YORK

GREENHOUSE BUILDING AND HEATING

Send for Catalogue.

SEND FOR CATALOGUE OF
SCOLLAY HOT WATER
and **STEAM BOILERS**

JOHN A. SCOLLAY

73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.

MASTICA

(PATENTED)

For Glazing Greenhouses

Manufactured only by

F. O. PIERCE COMPANY

170 Fulton Street, New York

Agencies in all the Principal Cities of the United States and Canada.

WRITE FOR CIRCULAR

JOSEPH BRECK & SONS

BOSTON, MASS.

DISTRIBUTORS FOR NEW ENGLAND.



YOU CAN'T DENY

that the essence of all plant growth is light; the more light the quicker and more abundant the plant growth—then

U-BAR GREENHOUSES
Are the Best Greenhouses Built

because no other house is as light, or can be as light for we are the only ones building U-Bar houses—the lightest house built.

WE ARE THE SOLE MAKERS OF
U-BAR GREENHOUSES

PIERSON U-BAR COMPANY

Designers and Builders

U-BAR GREENHOUSES

Metropolitan Bldg., 4th Ave. and 23rd St.

NEW YORK

PATENTS

Trademarks and Copyrights

Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

We have on hand large quantities of Orchid Peat, Rotted Peat, Azalea Peat, Leaf-Mould, Live Sphagnum Moss for Orchids, Silver Sand, Green Clump Moss, etc. Also Baled Moss for Design Work and Nursery; 5 and 10 Bbl. Bales. Secure the best at the lowest prices. Samples gratis. Jobbers' list on application.

C. W. BROWNELL & CO.,
WALDEN, N. Y.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/4 " " "	5.25	60 8 " " "	3.00
1500 2 1/2 " " "	6.00	HAND MADE	
3000 3 " " "	5.00	48 9 in. pots 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 " " "	.16	12 14 " " "	4.80
		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 percent. off for cash with order. Address Hillfinger Bros., Pottery, Fort Edward, N. Y. August Holker & Sons, Agts., 31 Barclay St., N. Y. City.

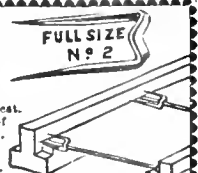
Holds Glass Firmly

See the Point

PEERLESS

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.



GURNEY HEATERS

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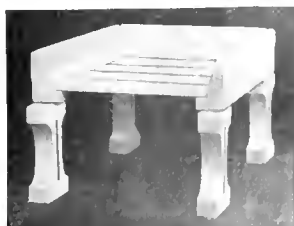
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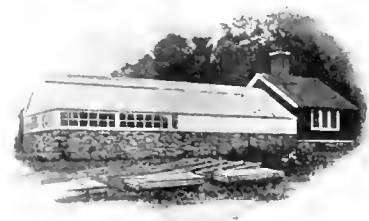




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HORTICULTURE

Vol. IV.

SEPTEMBER 1, 1906

No. 9



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British Horticulture

AN INTERNATIONAL GATHERING.

The international congress of hybridists recently arranged in London by the Royal Horticultural Society was a decided success. At the opening conversation there was an instructive array of exhibits, from the animal world as well as horticultural subjects, in illustration of the Mendelian law of hybrids and crosses. The inaugural address of President W. Bateson, F. R. S., dealt with the gratifying progress made in genetic research since the first conference assembled in 1898 at Chiswick. As a hopeful sign Mr. Bateson alluded to the fact that in the United States the Carnegie Institution has equipped a station for the experimental study of evolution. He commented on the fact that in England where, through Darwin's genius the study of evolution first became a reality, no such opportunity exists. At the succeeding sessions, papers were read from the pens of Professor Davenport, Washington; Prof. McFarland, Philadelphia; Dr. Erwin Smith, Washington; Prof. C. A. Zavrus, C. E. Saunder, H. H. Groff, Canada; G. H. Kerslake, Sydney; C. Willis Ward and John H. Troy, New York; Prof. N. E. Hansen, South Dakota, and others. There was a good display of flowers at the fortnightly show of the Royal Horticultural Society on July 31st, when many of the delegates were present. Some of the American visitors were very much impressed with the admirable collection of tree carnations shown by English florists.

SWEET PEA NOVELTIES.

The late Mr. Henry Eckford was famed for the leading part he had taken in the development of the sweet pea, and his services in this direction were recognized by a national testimonial made prior to his death. The work of raising new varieties is being continued at Wem by his son, whom I recently visited. There were about four acres devoted to seedlings, among which were to be seen a number of promising varieties destined to secure future honors in the leading shows. There will be no lack of novelties for some time to come. Mr. Eckford considers that there are still greater developments in store, and that there is no such thing as finality in the remarkable evolution which is taking place. It might even be possible, he thinks, to secure, in course of time a good deep yellow sweet pea, towards which many raisers have been striving for years. From a close inspection of the trials I should say it would be difficult to improve on the orchid form which is so popular on both sides of the Atlantic, whatever may be the changes in the tints. Some of these are very difficult to describe, owing to the blendings of new and delicate colors. It is surprising how even experts differ in describing the colors of some of these new-comers.

As to the novelties to be placed on the market next year, Mr. Eckford informed me that he has several good things which are likely to become sought after. For instance, there is the Queen of Spain, of the tint of Her Majesty rose. The blooms are of a clear texture, and the flowers are borne on stout stems. Earl Cromer is crimson lake in color, the back of the standard being overlaid with a lustrous rich chocolate tint, the inside of the standard and wings being shaded with soft lilac. The graceful flowers are well expanded,

Agnes Eckford is a very fine one, the flowers are a lovely soft blue, the petals are of a good size, of an imposing size, and some three on a stem, being strong and of good length, and well adapted for purposes. Horace W. is an entirely new variety, and it is of such brightness that for garden use it will be very telling, whilst for show purposes it will be indispensable. The flowers are of the giant type, whilst the plant is a strong and vigorous grower. It is certainly an advance amongst the blue section. Major Guest, which was very much admired at the National Society's show, is of a beautifully waved form, and pure white with the exception of a delicate buff tint towards the edges and the apex, after the Countess of Spencer form, a type which is now in great vogue. Mr. Eckford is making his customary excellent display this month at the great show at Shrewsbury.

W. H. Adsett,

New Roses at Newtonards

As the result of three memorable days spent at the nurseries of Messrs. Alexander Dickson & Sons at Newtonards, County Down, Ireland, I do not hesitate to express the firm conviction that the rose world is on the threshold of a complete revolution. The thorough and scientific work done by that enterprising firm has borne fruit in the thousands of new seedlings now growing in their nurseries. I had the good fortune to see sixty-five unnamed varieties of hybrid tea in bloom, every one of which is as fine and many much finer than any that we know in America, while several from their great vigor and beautiful form and color give good promise for winter forcing. One Red Killarney makes quite as good canes and is quite as full as American Beauty, is much richer in color and a wonderful keeper. Full-blown flowers lasted two days in an exposed vase without perceptibly changing color, and the wealth of bloom on the plants was glorious.

Sir Henry Irving is one of the most beautiful, a warm criso, very floriferous, and a great grower; one of the most promising.

Elizabeth Barnes, also a vigorous grower, is shaded after the order of Sunset, but much darker, very full and free bloomer. This rose constantly reminded me of a beautiful Spanish woman from the rich color and shading.

There are also a number of fine yellows of good substance and color, one resembling Perle des Jardins, but larger and fuller and very much better canes. Another is a brilliant sulphur yellow, and yet another about the color of William Allen Richardson, but very much larger and finer, with most beautiful foliage.

It would be impossible in a short sketch such as this to give even a faint idea of the glories to be seen at Newtonards. Should these roses do even moderately well in the American climate our rose growers, both amateur and professional, will revel in a profusion of growth, fragrance and color that they had never dreamed of.

Robert H. Gray.

The Growth of Horticulture in Nebraska

I have just returned from an extended trip to Minnesota. I was an early settler on the very frontier of that State in 1857. How it has grown since then!

When the State was new we did not expect to raise apples any more than oranges. But a more heroic band never lived. They were determined to have fruit. They sent South and East for apple trees which all died. They planted apple seeds by the bushel in hopes to get hardy ones, and all failed. Then Gideon's Wealthy appeared. This and the Duchess succeeded for a time, but hard winters would knock out the foundation of the whole orchard. They were grafted on tender roots. Then those resolute men went to work to build the ironclad apple tree from the foundation, taking stocks from crab apples and using scions from the hardest and they have now moved the apple belt up to Manitoba.

You never saw a more jubilant set of conquering heroes. Up in the north land they have a society of over two thousand under the lead of Mr. Latham, one of the most successful secretaries in all the world. The writer is to address this society next December on "Our Unused Capital."

Having made such a success with fruits the society are turning their attention to home adornment, and the nurserymen are now falling into line. To meet the growing demand for evergreens, ornamentals and perennials Frank Brown of Paynesville, Minn., a progressive farmer, has rented his farm and has commenced planting a fine collection of peonies and ornamentals. It is to be known as the "Elmwood Select Nursery of Paynesville, Minnesota." Mr. Brown has succeeded admirably in his commencing and he will have unlimited backing for his enterprise. Even for those northern regions there has proved to be a large collection that will do well in that trying climate.

C. S. HARRISON.

York, Neb.

Schyzophragma hydrangeoides

See Frontispiece.

The photograph which supplied the frontispiece for this issue was taken on the estate of Mrs. Pauline Durant, widow of the founder of Wellesley College. It was planted about twenty years ago, by the late Edward Butler when gardener there. It is on an elm tree, and has climbed to a height of over 40 feet. Strange to say, this thing is most difficult to root from cuttings, yet any piece which trails on the ground will take root. It is quite hardy.

J. D. Hatfield

Aleyrodes

I have an orchard of 800 three-year-old orange trees in Florida, infested with the "white fly." Will Arsenate of Lead be of value against this pest? Yours truly, S.

Arsenate of Lead is merely a stomach poison which will be of no value against the white fly or mealy wing (*Aleyrodes citri*). This pest is closely related to the scale insects but forms no scale, is active, and being equipped with wings quickly spreads from place to place. Like the scale insects, they obtain their food by sucking, and consequently require a poison that will kill by contact.

The insects live exposed at all stages and are easily visible, resembling a sprinkling of flour on the leaves. In Florida they pass the winter in the larval stage, pupating in early spring, and the adults appearing about March. The numerous eggs are laid on the under side of the leaves and, soon hatching, provide myriads of young.

Kerosene Emulsion one part to twelve of water would prove effective during dry periods.

Many growers use the resin washes for scales which kill by forming a thin varnish over the insect, shutting out the air and sealing them up, and by corrosion. This is a very desirable remedy for the white fly. For dormant trees the formula is:

Resin 20 pounds,
Caustic Soda (70 per cent.) 9 pounds,
Fish Oil 4 1/2-2 pints,
Water to make 100 gallons.

The resin is the ordinary commercial kind and the soda is that used by soap factories, where small quantities can be obtained. Break up the materials into small bits, put in a covered iron kettle with enough water to cover, and boil for one or two hours, or until a pale, yellow mixture is produced, which will mix easily with water, giving a coffee-colored liquid. When this stage is reached the rest of the water can be added, the mixture thoroughly agitated, and sprayed on the trees.

In summer the solution is produced in the same way but the following lesser amounts of material are used:

Resin 20 pounds,
Caustic Soda 5 pounds,
Fish Oil 2 1/2-2 pints,
Water to make 100 gallons.

R. Z. Adams.

Planting is about finished. Carnations are in. Roses were in long ago. Lilies as soon as received. One bit of planting, as important as any, you perhaps have overlooked or deferred. We mean an advertisement in HORTICULTURE. It will take but a few minutes of your time to attend to it and once done it will be like Sandy's tree, "growin' while you're sleepin'." Start the season now with a contract for at least 70 cents' worth each week during the coming year. It will yield an abundant crop.

Blossom End Rot of Tomato

The Blossom End Rot of Tomato is very troublesome in greenhouses, and also causes much injury to out-of-door crops of tomatoes throughout the whole United States. Experiment station workers have given attention to the Blossom End Rot for some time, but from the results of the various spraying experiments, very little of positive value has been discovered relating to the best methods of treating this disease. Some experiments in the South have indicated that spraying with Bordeaux mixture helps to quite an extent in controlling this trouble, while there are many others that have given practically no favorable results.

Blossom End Rot, as its name indicates, occurs on the blossom end of the fruit. It may make its appearance when the fruit is not more than a half an inch in diameter as a light, brown spot near the blossom end, which continues to grow and develop in size as the fruit develops; and eventually it will cover more or less of the whole fruit. Finally this spot may assume a very dark-colored appearance on the surface.

There has been about as much difference of opinion regarding the cause of the Blossom End Rot as there has regarding the control of the same. This rot has been attributed to different species of fungi, also bacteria. It is not unusual to find such fungi as *Alternaria*, *Fusarium* and *Cladosporium* present. In many instances a species of bacteria has been found and isolated which has given rise to the Blossom End Rot when the fruit has been inoculated.

Miss E. H. Smith, who has been working on this rot for some time in our laboratory at the station, has found all the various species of fungi which are enumerated above, together with a species of bacillus. Most of her work was confined to the greenhouse, and under such circumstances she has found practically all of the Blossom End Rot to be caused by a species of bacillus, although occasionally a fungus known as *Fusarium* is present. These observations have been confirmed by myself, and we are of the opinion that the Blossom End Rot, at least in greenhouses, is caused by a species of bacillus which gains entrance at the blossom end of the fruit, near the base of the style, and that the other species of fungi accompany it, owing to certain conditions being established by the presence of the bacillus. On out-of-door plants, however, one is likely to find a whole category of organisms.

Those who are familiar with tomatoes may have noticed that the epidermis of the fruit is frequently cracked near the blossom end of the tomato first, and it is undoubtedly through these cracks that the organisms gain entrance to the fruit, causing the rot. Rot caused by a bacillus is always of a lighter color than that caused by the various species of fungi mentioned. It has been known for some time that tomatoes, when grown out-of-doors, during the dry season, are more susceptible to this rot than during wet seasons. This is undoubtedly accounted for by the fact that the fruit, during such sea-



sons, does not get water enough, and cracks form which allow the entrance of organisms. It is quite possible that sub-irrigation of tomato plants in the greenhouse may be the means of checking this trouble to a large extent. Experiments are being made at the station along this line, but it is too early to draw deductions as to the practicality of this practice at the present time.

G. E. Stone

An Effective Border

Seldom has the writer seen a more attractive display than on the estate of Mr. G. Oliver, So. Negley Ave., Pittsburg, Pa., where Mr. R. D. Stevens, the gardener, who is a great lover of nicotianas, both *N. glauca* and *N. sanderae*, has arranged a group of beds in which these two species are the leading subjects. This style of bedding, so seldom seen in suburban districts, is quite refreshing to people living in residential sections of large cities where nearly everyone's lawn is the counterpart of his neighbor's.

These beds are situated almost on the top of a hill in full sunshine, yet in the hottest time of the year these nicotianas were floriferous and healthy, from which we might reasonably infer that nicotiana will stand full sunshine, even in the hottest weather, providing they are given a position where they can have lots of air. Better results can be obtained by planting in such a position than in half shade. The effect obtained by planting the two species together is very pleasing, the white of *N. glauca* as well as the yellow of the early form of *N. sanderae*.

James Hutchinson

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE
FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

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WM. J. STEWART, Editor and Manager.

Make the schedules explicit

The discussion on the definition of "stove" and "greenhouse" plants at Dayton again emphasizes the necessity that makers of schedules should be more exact in defining their meaning in the making up of the various classes. If trouble and recrimination are to be avoided each specification must be so worded that it will be interpreted in exactly the same way by the exhibitors and by the judges. Limitations such as "stove," "greenhouse," "annual," "variegated," etc., which leave room for divergent interpretation, have always been stumbling blocks. The Massachusetts Horticultural Society's schedule calls for "stove and greenhouse plants" in its group displays and thus eliminates a fruitful cause of useless argument.

S. A. F. ladies' auxiliary

One of the most promising of the innovations which had birth at the recent Dayton convention is the proposition to constitute a ladies' auxiliary to work in conjunction with the Society of American Florists. A number of the ladies who have been attending the conventions, realizing the social and material advantages to be derived from a better acquaintance with one another and the need of some incentive other than that of merely accompanying their husbands, fathers, or brothers to the convention, have taken the matter in hand and hope to be able to present a full-fledged organization at the S. A. F. meeting in Philadelphia next year. We look to see it a success and HORTICULTURE pledges itself to help as it can towards this end. Our columns are open to the ladies for the discussion of their plans and we know our reader will be glad to learn more concerning them.

The strength of numbers

"Every time we pay tariff on glass we are being robbed," said E. G. Hill in the tariff discussion at Dayton. The indictment is a severe one and is about as direct as it could be made. If it be true—and we believe it is—the duty of the S. A. F. is plain. As the organized representative of the greenhouse owner its place is at the door of Congress with its case well in hand and *its constituents behind it*. Without the latter element of strength it need not expect to accomplish much. Herein is the Society's greatest weakness made apparent. Ten thousand florists owning greenhouses in this country—each one with a purpose to add sooner or later to their glass area—five per cent. of them supporting the only institution whose business it is to help lighten their burdens by advocating just legislation and the other ninety-five per cent. seemingly preferring to be robbed rather than contribute their mite towards the Society's needed resources. It does not require much stretch of the imagination to realize the effect of an appeal backed by ten thousand loyal florists and no one can doubt that the result would be such as to save to every man building a greenhouse many times the amount necessary to make him a life member of the organization. The situation and its possibilities are easily understood, but how shall we awaken the sleepers?

What "plant registration" does not stand for

There appears to be a very general misapprehension as to the scope of the plant registration department of the S. A. F. This was brought out at Dayton during discussion. Many seem to look upon registration of a new variety by the Society as in some degree an endorsement of the variety whereas it is solely a registration of the name given to the variety by its owner with the intent to secure the exclusive use of the name as applied to the variety described. We see no way in which the Society can safely go beyond these limits. The history of floriculture is filled with instances of mistaken judgment of novelties and we have had abundant opportunity to learn that the moderate course is the safest course for any society. To assume to coerce or interfere with any man's right to give to his own product such name as he chooses, provided it is not already in use, regardless of the value or apparent worthlessness of the variety, would be to pull down all the good work that has been done and cripple the Society in one of its most useful functions. If, as has been said, the present system encourages the reckless tying up of valuable names with worthless varieties, some method of limitation might well be considered, but beware of censorship schemes. American horticulture wants no dictators.

AFTER ADJOURNMENT.

In choosing a Bostonian for president the florists confirm the report that Boston has the flower of the whole florist family.—*Boston Record*.

We never contradict *The Record*.

The American Florist inquires, "Who is Col. Castle?" Possibly, before the end of the convention, the querist found out. We are, however, at all times willing to supply inquisitive people with any information we can concerning Massachusetts folks, so are pleased to inform our Chicago contemporary that Col. Castle has been for a number of years president of the Weymouth, Mass., Agricultural Society, and is an ardent horticulturist, as further evidenced by his beautiful estate at Weymouth. We might also add, incidentally, that the gentleman carries five wounds received in the service of his country. His business interests in the Holly Castle Circulator took him to the Washington convention; those who listened to his words at Dayton learned something about what brought him to the Dayton convention, and we do not question that the silver-tongued colonel will also be in evidence at the Philadelphia convention, prepared to supply any further information as to "who he is" to persons of an inquiring turn of mind.

A flower show in Lenox last week was really creditable and worth while, but there was one amazing thing about it. All the credit of the show went to the owners of the place who had so little interest in the exhibition that not more than half saw the blossoms. Placarded all about were huge cards bearing, "First Award, Mrs. John E. Parsons," or "Miss Adele Kneeland," "Mrs. Robert Winthrop," or "Mrs. George Westinghouse," but not a word about the gardeners who deserved the credit for the culture and care of the flowers. Many of these villa owners were swelling about, showing their blooms and incidentally exhibiting how little they knew of floriculture. It would be more creditable to the cottagers to insist that the first award should go to "John Jones, gardener of _____" than to assume credit for the skill and knowledge of these men who win beauty from the soil.—*Town Topics*.

Town Topics is right—unqualifiedly right. It would be a graceful move on the part of the employer to concede to the gardener the credit which primarily belongs to him, and this sort of encouragement to further and greater zeal on his part would be well repaid in future triumphs.

NEWS NOTES.

Hugh Kane, under gardener on the estate of William G. Rockefeller, at Greenwich, Conn., committed suicide by drowning on August 25.

J. J. Waaland and E. R. Sackett have purchased the greenhouses of Barnd, Karg & Co., of Findlay, O., and 100 feet of land additional belonging to Mrs. Barnd, for \$4,000. Mr. Barnd will locate in Texas.

SAN FRANCISCO NOTES.

Manuel D'Yriarte, a notable grower of select flowers in the Philippines, is making a choice contribution to the White House conservatories in Washington. It comprises a shipment of orchids numbering about 7,000 plants, and arrived here this week on the United States Army transport Thomas, and after a few days of care will go on their way. Those in charge of the orchids are, however, apprehensive of the results of the journey across the continent.

When the issue of HORTICULTURE containing these notes goes to press there will be a meeting of pear growers in the Capitol City of the State which promises to be one of the most important gatherings of orchard men ever held in California. The purpose is to discuss the pear blight situation and decide what steps shall be taken to control this disease. The meeting is called by the Sacramento Valley Development Association, upon the advice of one hundred pear growers, among whom are Lieutenant-Governor Alden Anderson, Edgar J. Depue, Frank H. Buck, Mrs. Annie Bidwell, R. J. Blowers and T. H. Ramsey. Professor M. B. Waite, of the Department of Agriculture, will attend from Washington, D. C., also Professor Ralph E. Smith of the University of California.

The world-famed palm garden of the Palace Hotel, San Francisco, which was toppled out of shape by the April earthquake and the next day reduced to ashes by the great fire, is to be reproduced and on a much larger scale. It was the attraction of the hotel, say the trustees of the Sharon estate, who own the premises, and it was decided, a few days ago, to replace the original structure with improvements. This week the insurance loss on the building was adjusted at \$1,302,610.22, to be paid by the ninety-eight companies involved in the loss. Incidentally, the committee of Eastern adjusters say, it is the largest loss upon a single risk ever adjusted in this country.

FALL GRASS IN THE LAWN.

Dear Editor:

Would like to know what some of the readers of HORTICULTURE have to say in reference to ridding a large lawn of what is known as fall grass, an annual with a rather broad, soft leaf.

Very truly,

E. M.

Wellesley, August 17, 1906.

Editor HORTICULTURE:

We know of no way, short of killing everything besides, except to pull out the weed by hand. If they did not smother the smaller growing lawn grass, it wouldn't matter if they were left, if not allowed to go to seed. They are annuals only, and will not grow next year. Most lawn weeds come in barnyard manure. It had better be avoided until a good lawn is secured, and chemical fertilizers used instead.

Yours truly,

T. D. HATFIELD.

I am told that you issue the best paper in the trade; put me on your list and send bill for same for one year and oblige.

C. W. H.

NEWPORT PERSONALS.

V. A. Vankeek, of the Rhode Island Nurseries, has secured a contract for supplying of a large number of specimen trees of large dimensions for the estate of E. C. Knight, Jr., of Bellevue avenue.

The greenhouses on the estate of W. Storrs Wells, where Andrew S. Meikle is gardener, are to be torn down and removed. It is the intention of Mr. Wells to rebuild another range on land away from the place which he thinks of purchasing for the purpose.

Donald Shepherd, who leaves Newport next week to assume charge of Mr. Roelker's place at East Greenwich, R. I., leaves a friend in every gardener in Newport. All regret his departure but are pleased that in the change Mr. Shepherd is improving his condition. As gardener for Mr. Burden, at Fairlawn, Mr. Shepherd had but few opportunities to show what he was capable of accomplishing, but the few that did present themselves were taken advantage of and creditable results were the consequences.

BOSTON BREVITIES.

John P. Gillis will take charge of the greenhouses on the E. A. Dow estate, Woburn, Mass., succeeding Walter S. Stackpole.

William Doogue, for many years superintendent of the Public Grounds of Boston, is dangerously ill, and much anxiety is felt as to the outcome.

J. K. M. L. Farquhar sailed from New York on Tuesday, August 28, on the White Star liner for an eight weeks' business trip in Europe. He will visit Spain, Italy, Switzerland, France, Denmark, Germany, Belgium and Great Britain.

Superintendent Pettigrew is making park settees of a very serviceable type, having posts and brackets of cement, in which twisted iron rods are encased. The cement is colored to match the dark wood of the seat and back slats and the general outline is very pleasing.

PERSONAL.

Charles W. Reimers, formerly of Louisville, Ky., is seeking rest and recreation in Los Angeles, Calif.

F. T. Covey, a florist of Fredericksburg, Va., has been appointed to superintend the laying out of the grounds at the Jamestown exposition.

Alfred Akerman has resigned his position of State forester of Massachusetts to accept the Peabody chair of forestry in the University of Georgia. Mr. Akerman has been State forester since the creation of the office in 1904, and had been filling a similar position in Connecticut when called to Massachusetts.

OBITUARY.

The sympathy of the trade is with Geo. S. Faulkner, whose father, Geo. A. Faulkner, died on the 26th inst. at his home, 916 So. 50th street, Philadelphia.

THE CONVENTION STORY CONTINUED

Following the address of Secretary Jas. L. Cowles, of the Postal Progress League on Wednesday morning, the following resolution was passed by a unanimous vote:

Resolved, That the Society of American Florists and Ornamental Horticulturists, assembled in annual convention at Dayton, endorse by unanimous vote the pending postal bill, 4549, now before Congress.

Bill 4549 reads as follows:

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

"That the third and fourth classes of mail matter be and are hereby consolidated under the title of 'merchandise' at third class rate; the one cent per each two ounces; 8 cents per pound."

E. V. Hallock's splendid paper on horticultural education in the public schools was received with much approbation, and the sum of money asked for as a beginning of the society's work on these lines for the coming year was favorably acted upon in a recommendation to the executive board. Fred E. Palmer of Brookline, Mass., and J. F. Cowell of Buffalo, N. Y., were added to the committee and same was continued.

On Wednesday evening the report of the judges on the landscape plans was read by J. F. Cowell, as follows:

The committee appointed to examine and report upon the landscape designs submitted in competition for the prizes offered by the Dayton Florists' Club, beg leave to report: That the problem with which they were confronted was too ill-defined for any intelligent action on their part. A collection of drawings of such diverse character can hardly be considered competitive, and to attempt to award prizes according to schedule would have resulted in stultifying the committee. We found no data to work upon and had no means of knowing how well the requirements of the various propositions had been fulfilled. Had it been simply a question of rewarding the artistic execution of the plans or the technical skill of the draftsman it would have been easy, but such a plan would not seem to be a proper solution of the difficulties.

Basing our awards upon such information as may be obtained from the plans themselves or such as may be gleaned from the program, it would appear to us that "Elegant" (Mr. Scheibe of N. C. R. Co., Dayton) and "Art" (Gordon H. Taylor, 156 Fifth avenue, New York), are entitled to first awards (gold medals). That "Renaissance" (Mr. Scheibe of N. C. R. Co., Dayton) and "Oak" (J. E. Freudenberger of N. C. R. Co., Dayton), are entitled to second awards (silver medals), and "Education" (Olmsted Bros., Brookline, Mass.) and "Science" (J. E. Freudenberger of N. C. R. Co., Dayton), are entitled to third awards (bronze medals).

Many of the plans presented, other than those receiving awards, have points of excellence and contain features of merit which would undoubtedly work out under certain conditions in a satisfactory manner. The collec-

tion of photographs, shown as illustrations of landscape work in various phases, form a most interesting and instructive exhibit and make a valuable addition to this department. The idea of competitive exhibitions of this character seems to be worthy of continuance. The scheme, however, needs elaboration, and definite rules should be laid down for the guidance of those participating.

Your committee would recommend that the matter be referred to the Executive Board of the S. A. F., with the request that they formulate a plan for future work.

(Signed) J. F. COWELL,
EDWIN LONSDALE,
H. D. SEELE,

Committee.

F. E. Palmer's paper on "The Ideal Private Gardener and His Work," presented on Wednesday evening, appears on another page of this issue as does also Irwin Bertermann's paper on "Recent Improvements in Retailers' Methods of Handling Flowers," which was read at the session on Thursday morning. The companion paper on this subject by W. F. Gude, appeared in our issue of last week.

At the session on Thursday morning a communication from President E. Albertson, of the National Association of Nurserymen, was presented, telling of the work and aims of that organization and asking for the co-operation of the S. A. F. and of its members individually.

W. S. Powell, representing the Bureau of Credit of the Wholesale Seedsmen's League, was given the floor and addressed the Society, suggesting the recognition by the S. A. F. of this credit bureau and that the members make use of its facilities as a collection and mercantile agency in preference to the unaffiliated commercial agencies. Mr. Powell gave careful data as to how this might be accomplished to mutual advantage. This and the nurserymen's communication, also the question of design for life membership badge, were referred to the Executive Board.

The appeal of the Detroit Florists' Club for an investigation of the prevalent stem rot in China asters was given consideration and finally referred to the Society's pathologist, Prof. B. M. Duggar.

The first query taken from the Question Box was the following:

"Is a stove plant here in the United States a greenhouse plant? The reason for asking this question is that at a recent exhibition a judge disqualified one exhibit of a fine collection of variegated foliage plants because it was exhibited under the heading of 'Collection of House or Greenhouse Plants.' He argued that caladiums, anthuriums, marantas, etc., are stove plants and could not be classified as greenhouse plants. This argument cost exhibitor the prize. Full answer to this question is most important to inquirer."

A wide divergence of opinion was shown in the discussion which followed. Mr. Craig said the judges had done right. Mr. Irish explained that all cool house and all stove house plants are properly included under the term "greenhouse plants," and G. C. Watson was of similar mind. Mr. Hal-

lock thought the schedule makers should be advised to be more explicit. After Mr. Stewart, Mr. Wintzer and others had taken a hand the question was laid on the table.

No. 2. "Is it to the benefit of the trade for originators of new cannas to name and disseminate a long list of varieties having no desirable merits over existing varieties?" This question brought up a very lively discussion as to the desirability of some sort of supervision by the S. A. F. of the new cannas and other novelties placed on the market from time to time and some means of establishing their degree of worthiness also some restriction as to the number and method of registration of names for same in the secretary's office. Mr. Vaughan made a motion instructing the appointment of a standing committee on cannas and, after much debate, same was carried.

No. 3. "Would it not be wise to consider holding the annual convention at end of July or first week in August?" It was explained that this suggestion was offered in the interests of the carnation growers who find the present date of the S. A. F. meetings inconvenient. The question was tabled.

Thursday evening's session brought out a large audience and they were well repaid in the animated proceedings that followed. J. D. Carmody being given the platform proceeded to address president Kasting, telling him in his inimitable way of the affection and good-will of the Society members towards him and, in token of their commendation of his course as presiding officer, passed over an oak case filled with silver ware. Next came Robert Craig who accosted Mr. Stewart as retiring secretary and, congratulating him upon his long and intimate association with the members, handed him a purse of gold coins. Each recipient in turn and amid much applause made an appreciative response.

The officers-elect were then severally introduced—president-elect Stewart by W. W. Castle, vice-president elect Westcott by Geo. C. Watson, secretary-elect Hauswirth by Phil. Breitmeyer and treasurer Beatty by J. C. Vaughan. All made fitting responses promising faithful service for the coming year, Mr. Stewart expressing the hope that the unanimity of his election might be typical of the harmony and unity which should characterize all the work of the Society during his term of office.

The important topic of a national flower show was then taken up.

Robert Craig was the first speaker. He told of the work the committee had been doing and the difficulty foreseen as to securing a competent manager. E. G. Hill told of the beauties of the Paris exhibitions and the great stimulus to trade resulting from the great shows as given abroad. Both Mr. Hill and Mr. Vaughan advocated the holding of the proposed exhibition in November instead of in the springtime as had been originally contemplated. After many speakers had been heard on various phases of the question the following resolution, presented by Mr. Craig, on behalf of the committee, was adopted:

Resolved, That if this proposed exhibition be held, it shall be in the

month of November, 1908, in the city of Chicago, and that the date of the annual meeting shall be changed from August to November so that the exhibition and annual meeting shall be held at the same time and place, and that the executive committee be empowered to prepare for and to hold the proposed exhibition.

On Friday morning a short session was held out doors under the shade of a big oak. The committee on final resolutions, Messrs. Hallock, Hauswirth and Bisset presented their report as follows:

The members of the Society of American Florists and Ornamental Horticulturists, assembled in annual convention in the city of Dayton, desire to heretofore express to the National Cash Register Company our sense of gratitude and appreciation for the splendid hospitality lavished upon us at the banquet and stereopticon entertainment, in the Welfare Hall, the object lesson of which will never be lost upon any person whose good fortune it was to be present on that occasion, and to partake of the bounty and consideration of the National Cash Register Company.

It is resolved, that the thanks of the Society be tendered to President J. B. Heiss and other members of the Dayton Florists' Club, for the excellent manner in which they have carried out the work that devolved upon them in connection with this convention. Their labors have tended to make the meetings and exhibition the great success they have been.

Resolved, that to the ladies of the Dayton Florists' Club, our thanks be extended for their endeavors to promote the comfort and delectation of the visiting ladies of the Society.

Resolved, that the thanks of the Society be tendered to H. M. Altick for his masterful handling of the sports and pastimes connected with the convention.

Resolved, that to Horace M. Frank, Superintendent of Trade Display, our thanks be tendered for his excellent management of his department. His unflinching energy and attention to details are greatly appreciated.

Resolved, that the society extend its thanks to Mr. Henry Hasse for his devoted interest and care of the outdoor exhibits, and who has worked faithfully to make this feature a success.

Resolved, that we tender our thanks to the daily press of Dayton for their extended and instructive reports of our meeting.

Resolved, that to the postmaster of Dayton, we return our thanks, and appreciation for the postal facilities afforded our Society, which proved of the utmost convenience.

Resolved, that to the Bell Telephone Company, and the Home Telephone Company, we give our thanks for the free use of their respective telephone instruments, which they installed in the office of the secretary, and which have been of the greatest service to our members.

Resolved, that we tender our thanks to the members of the Dayton Merchant Police, for their faithfulness and zeal in caring for the exhibits in Exhibition Hall.

Resolved, that the thanks of the Society be extended to Gen. Thomas of the Soldiers' Home for his courtesy in receiving and welcoming our members to the beautiful grounds in his care.

Also, that our thanks be extended to the gardener of the Soldiers' Home, Mr. H. Haerlein, for his kind and unflinching courtesy to our members who visited the grounds.

The local program for Friday was carried out to the letter. The visit to the Cash Register works in the forenoon was an experience never to be forgotten. In the afternoon, the Soldiers' Home with its hundreds of acres of fine grounds, its brilliant flower beds, its conservatories, its splendid buildings, its band of music, the address of welcome by the governor, Gen. J. B. Thomas, and lastly the thousands of blue coated veterans whom Uncle Sam is so gratefully caring for, awakened the patriotic enthusiasm of every visitor. The music

and dancing at the fair grounds in the evening was a fitting close of most enjoyable day.

REPORT OF SUPERINTENDENT OF TRADE EXHIBITION.

Mr. President and Gentlemen,

I herewith submit the following report of the trades display, in connection with the twenty-second annual convention of the Society of American Florists and Ornamental Horticulturists, at Fair Grounds, Dayton, Ohio, August 21st to 24th, 1906:

CLASS A

Henry A. Dreer, Philadelphia, Pa., collection of palms, ferns, araucarias, etc.

J. A. Peterson, Cincinnati, Ohio, Begonias, Adiantum Farleyense and Fandanus Veitchii.

Chas. D. Ball, Holmesburg, Philadelphia, Pa., collection of palms and decorative plants.

Vaughans Seed Store, Chicago and New York, palms, ferns, etc.

Lemuel Ball, Wisconsin, Philadelphia, Pa., collection of palms.

The Hinode Florist Co., Whitestone, Long Island, N. Y., Japanese miniature trees.

F. R. Pierson Co., Tarrytown-on-Hudson, New York, Tarrytown ferns and bulbs.

Lager & Hurrell, Summit, N. J., Orchid plants.

Joseph Heacock, Wyncote, Pa., palms.

Metairie Ridge Nursery Co., New Orleans, La., palms and decorative plants.

Henry H. Barrows & Son, Whitman, Mass., Nephrolepis Whitmanii.

Robt. Craig Co., Philadelphia, Pa., palms, new paudanus, crotons, etc.

Julius Roehrs Co., Rutherford, N. J., palms, orchids and foliage plants.

Edw. Amerpohl, Janesville Floral Co., Janesville, Wis., Nephrolepis Amerpohlii.

Lewis Ulrich, Tiffin, Ohio, new Zonal geranium.

The Storrs-Harrison Co., Painesville, Ohio, ferns and dormant roses.

Davis Bros., Morrison, Ill., collection of ferns.

Christ. Winterich, Defiance, Ohio, Cyclamen plants.

C. S. Ford, Philadelphia, Pa., palms and foliage plants.

The Livingston Seed Co., Columbus, Ohio, new begonia.

John Scott, Brooklyn, N. Y., Scotii fern, palms and foliage plants.

H. R. Carlton, Willoughby, Ohio, violet, Gov. Herrick.

Geo. A. Kuhl, Pekin, Ill., collection of ferns.

Carl Hagenberger, W. Mentor, O., collection of ferns, crotons and miscellaneous stock.

Huntsman & Co., Cincinnati, Ohio, collection of aspidistras.

A. C. Oelschig & Son, rubber plants.

William Sim, Cliftondale, Mass., tomatoes.

CLASS B.

Arthur Cowee, Berlin, N. Y., display of cut gladioli.

E. H. Cushman, Sylvania, Ohio, display of cut gladioli.

John Lewis Childs, Floral Park, N. Y., display of cut gladioli.

Southern Floral Nursery Co., Pruitdale, Ala., display of cut carnations.

James Vicks, S. P. R. Co., Dayton, Ohio, display of cut aster.

Nathan Smith & Son, York, Pa., display of cut phlox.

CLASS C.

Holly-Castle Co., Boston, Mass., electric circulator.

The Herenden Mfg. Co., Geneva, N. Y., boilers.

Morchen Mfg. Co., Detroit, Mich., steam trap.

Lord & Burnham Co., New York, boilers and ventilator.

E. Hippard, Youngstown, Ohio, steam trap.

Kroeschell Bros. Co., Chicago, Ill., boilers and chain wrench.

CLASS D

A. Q. Wolf & Bro., Dayton, Ohio, greenhouse ventilators.

Ionia Pottery Co., Ionia, Mich., pots. Wm. F. Kasting, Buffalo, N. Y., patent cement benches.

Advance Co., Richmond, Ind., greenhouse ventilators.

Lockland Lumber Co., Lockland, Ohio, greenhouse material.

A. H. Hews & Co., Inc., Cambridge, Mass., pottery.

A. Dietsch Co., Chicago, Ill., greenhouse material.

Quaker City Machine Co., Richmond, Ind., greenhouse ventilator.

H. Thaden & Co., Atlanta, Ga., greenhouse material.

W. H. Elverson Pottery Co., West Brighton, Pa., pots.

Foley Mfg. Co., Chicago, Ill., greenhouse material.

Charles Manley, St. Johns, Mich., greenhouse material.

The King Construction Co., North Tonawanda, N. Y., greenhouse material.

CLASS E.

M. Rice & Co., Philadelphia, Pa., ribbons, fancy baskets and general florists' supplies.

H. Bayersdorfer & Co., Philadelphia, Pa., fancy baskets, earthenware and florists' supplies.

Reed & Keller, New York, novelties in glass flower-holders and florists' supplies.

Schloss Bros., New York, ribbons.

Dayton Paper Novelty Co., Dayton, Ohio, fine display of fancy flower boxes.

Roseville Pottery Co., Zanesville, Ohio, jardinières and fancy earthenware.

Hummel & Downing, Milwaukee, Wis., display of fancy flower boxes.

S. S. Pennock, Philadelphia, Pa., ribbons and florists' supplies.

B. Goetz's Sons, Oakwood Pottery, Dayton, Ohio, fancy earthenware and pots.

L. Baumann & Co., Chicago, Ill., baskets, metal ware and general supplies.

D. B. Long, Buffalo, N. Y., floral photographs.

C. S. Ford, Tioga, Philadelphia, Pa., fancy jardinières and general supplies.

Wertheimer Bros., New York, fancy chiffons and ribbons.

J. Stern & Co., Philadelphia, Pa., baskets, metal ware and general supplies.

E. W. Griffen, Cleveland, Ohio, Salix cent plant stand.

CLASS F.

Arthur Boddington, New York, Bell's

Vaughan's Seed Store, Chicago and New York, bulbs.

C. F. Kimmel, Dayton, Ohio, seeds.
Beaulien, Woodhaven, N. Y., seeds.

CLASS G

Kramer Bros., Dayton, Ohio, iron vases, benches, etc.

The Lowe Bros. Co., Dayton, Ohio, paints.

The Dayton Supply Co., Dayton, Ohio, sprayer.

S. H. Shoup, Dayton, Ohio, florists' wire designs.

Lager & Hurrell, Summit, N. J., orchid baskets.

B. Hammond, Fishkill-on-Hudson, N. Y., slug shot, insecticide and putty.

Horticulture, Boston, Mass., trade paper.

Dayton Fruit Tree Label Co., Dayton, Ohio, wooden tree and plant labels.

J. H. Broxey, Dayton, Ohio, carnation support.

C. W. Skinner, Troy, Ohio, irrigating system.

Hein Support Co., Connersville, Ind., carnation support.

Weed Supply Co., Dayton, Ohio, rubber hose, etc.

Henry F. Michell Co., Philadelphia, Pa., oak jardinières.

Crowl Fern Co., Millington, Mass., ferns and evergreen.

H. J. Smith, Hinsdale, Mass., ferns and evergreen.

L. B. Bague, Hinsdale, Mass., cut ferns.

Display Signs.

Bassett & Washburn, Chicago, Ill.
Lockland Lumber Co., Lockland, Ohio.

Joseph Heacock, Wyncote, Pa.
The E. F. Winterson Co., Chicago, Ill.

The Leo Niessen Co., Philadelphia.
McHutchison & Co., New York.

Hitchings & Co., New York.
Wm. F. Kasting, Buffalo, N. Y.

F. O. Pierce Co., New York.
Chas. F. Meyer, New York.

Wm. Hagemann & Co., New York.
Yokohama Nursery Co., New York.

Florists' Exchange, New York.
Young & Nugent, New York.

Traendly & Schenck, New York.
J. Breitmeyer's Sons, Detroit, Mich.

Stumpp & Walter Co., New York.
August Rolker & Sons, New York.

Lion & Company, New York.
N. Cowan's Son, New York.

Bobbink & Atkins, Rutherford, N. J.
Simon Rodh, New York.

George H. Mellen Co., Springfield, Ohio.

E. G. Hill Co., Richmond, Ind.
Miami Floral Co., Dayton, Ohio.

Vaughan's Seed Store, New York and Chicago.

Foley Mfg. Co., Chicago, Ill.
The Am. Florist Co., Chicago, Ill.

H. R. Carlton, Willoughby, Ohio.
J. B. Heiss, Dayton, Ohio.

The Florists' Review, Chicago, Ill.
E. H. Hunt, Chicago, Ill.

JUDGES AWARDS ON TRADE EXHIBITS.

Certificate of Merit.

W. F. Kasting, Buffalo, N. Y. Most practical and cheapest Indestructible Cement Greenhouse Bench.

H. A. Dreer, Philadelphia, Pa. Bougainvillea W. K. Harris. Highly commended at Washington, 1905, as Bougainvillea Sanderiana Variegata.

Morehead Mfg. Co., Detroit, Mich. The Morehead Trap.

J. H. Broxey, Dayton, O. The Gem. Considered the best Carnation support to date.

King Construction Co., N. Tonawanda, N. Y. New Gutter and Spring Attachment to Ventilator.

Lord & Burnham Co., Irvington, N. Y. Dust-Proof Gear.

Herendeen Mfg. Co., Geneva, N. Y. New Three-piece Sectional Boiler, B. & A. Series.

Kroeschell Bros., Chicago, Ill. Scale-bearing Shaking Grate.

Kroeschell Bros., Chicago, Ill. Ideal Chain Wrench.

Vaughan's Seed Store, Chicago. Gladiolus Mrs. Frances W. King.

Edw. Amerpohl, Janesville, Wis. Nephrolepis Amerpohlii. Very distinct; one of the best novelties in exhibition.

Arthur Cowee, Berlin, N. Y. Sixteen new gladioli all of great merit, particularly Peace, Nilreb, 605, Scarsdale and Cremilda.

Honorable Mention.

Wm. Sim, Cliftondale, Mass. For tomatoes of remarkable fertility and uniformity of size and color.

Fred Windmiller, Columbus, O. A free-flowering type of Begonia semperflorens.

Louis Ulerich, Tiffin, O. Zonal Geranium Tiffin, single, scarlet.

James Vick's Sons, Rochester, N. Y. Asters, Vick's Violet King and two new varieties of Daybreak color.

Hein Support Co., Connersville, Ind. Carnation support.

Storrs & Harrison Co., Painesville, Ohio. Nephrolepis Leedsii. A sport from Pierson a little more robust than the Tarrytown.

Highly Commended.

Dayton Supply Co., Dayton, O. Simplicity Spray Pump. A most useful implement.

Wertheimer Bros., New York, N. Y. New and original Designs in Ribbon for American Beauty Roses.

E. A. Beaven, Evergreen, Ala. Fadeless Sheet Moss. A very useful article. Chemically treated.

H. Thaden, Atlanta, Ga. Equalizing Truss.

M. Rice & Co., Philadelphia, Pa. Novelty adjustable Plant Baskets and Birch Bark Pot Covers.

J. Stern & Co., Philadelphia, Pa. Magnolia and Cycas Wreaths.

S. S. Pennock, Philadelphia, Pa. Pearl Pins and New Ribbon Designs.

H. Bayersdorfer & Co., Philadelphia, Pa. Imported Tone Ware of Grecian Effect and other Novelties.

Reed & Keller, New York, N. Y. New Forms for Design Work, Baskets, Cycas Holders, etc.

Schloss Bros., New York, N. Y. New Ribbon Novelties.

G. C. Myers, Dayton, O. The Yankee Hose and Pipe Clamp.

Dayton Paper Novelty Co., Dayton, O. Embossed Violet Box of New Design.

Lord & Burnham Co., Irvington, N. Y. New Greenhouse Gutter.

REPORT OF JUDGES ON OUTDOOR EXHIBITS.

The judges appointed to examine and report on the outdoor exhibit of plants beg to submit the following:

An exhibit of canna, King Humbert,

by Vaughan's Seed Store, Chicago and New York. This is an extra fine exhibit in fine shape. The canna is of fine habit, free flowering, flowers large, good color, dark bronze leathery foliage. The same firm make an exhibit of Baby Rambler rose; also a bed of cannas composed of two unnamed varieties, with Papa Nardy and David Harum.

Nathan Smith & Son, Adrian, Mich., make several interesting exhibits. A bed of canna, Imperial Gardener Hoppe, as growing here is no improvement over existing varieties. Canna, Express, by same firm, is a free bloomer of dwarf habit; crimson color. Canna, Director Holtz, yellow, ground, heavily spotted red on smaller petals, others slightly spotted; a very effective color. Plants of good habit. Your committee thinks very highly of this variety and recommend a certificate of merit.

Canna, Oseoda; this is not so effective as others in commerce. Canna, Martha Washington. Salvia splendens Triumph, of good compact habit, early in flower and of good color. The same firm makes a very interesting display of hardy herbaceous plants. Very effective at the present time are hibiscus, Crimson Eye, Rudbeckia triloba, Boltonia latiguam, Boltonia asteroides, Helonium autumnale superbum, and phlox, Mrs. Dwyer.

From W. F. Kasting, Buffalo, N. Y., an exhibit of canna, Mrs. Kasting; color a brilliant red, the flower spike carried well above the foliage, making it very effective.

H. A. Dreer, Philadelphia, makes a very interesting exhibit of Delphinium Belladonna, petunias, Pennisetum macrophyllum, atrosanguineum, and ageratum, Inimitable.

Gus. Obermeyer, Parkersburg, W. Va., showed canna, West Virginia. This is an improved form of Antoine Crozy, fine habit and free in flower.

Your committee recommend that the Society's silver medal be awarded to Mr. John Freudenberger for his care, planting and tasteful arrangement of the outdoor exhibits.

(Signed) PETER BISSET,
EDWARD LONSDALE,
WILLIAM MILLER.

CONVENTION NOTES.

Horace M. Frank made an ideal exhibition manager. Self possessed in the face of all difficulties, urbane, courteous, and obliging to all, tireless here, there, and everywhere, from early morning till late night, prompt and exact in every detail of his arduous duties, he made a record in the eyes of the visitors. A nice little bunch of greenbacks sprouting from a lily bulb was the spontaneous tribute of the exhibitors whom he had served so well. Col. Castle of Boston was pressed into service to make the presentation speech.

Somebody inscribed on the "complaint book" a request that J. B. Heiss supply 1000 electric fans for the exhibition building and run the street cars up to the door. No wonder they thought J. B. was omnipotent. Whatever this indefatigable hustler undertook had to go through, regardless of all obstacles. The post office substation in the exhibition hall was one of his innovations that the Society can not afford ever again to do without.

Nathan Smith & Sons of Adrian,

Mich., are entitled to the profound gratitude of the Society of American Florists for their magnificent gratuitous contribution of herbaceous perennials to the exhibition grounds at Dayton. And as generous giving always brings its own reward we do not doubt that the splendid collections as shown will bring in compensating business in due season.

The announcement that the illuminations of Far Hills, plans for which had been spoiled by the rain on Tuesday evening, would be given from 8 to 10 p. m. on Thursday was very welcome news to the visitors who attended in great throngs and were treated to a fairy-land scene such as they had never before been privileged to behold.

No medal of the S. A. F. was ever more worthily bestowed than that recommended by the judges for John E. Freudenberger for his excellent planning and laying out of the beds and the groups of exhibits adorning the Fair Grounds.

Never before has an S. A. F. convention been favored with so much music. A band or orchestra was on hand every day and evening at the Fair Grounds and the music rendered was well selected and well played.

The Detroit Florists' Club attracted much attention in their quaint garb of long linen dusters and farmer boy hats as they marched up Third street from the railway station with their grips and bundles.

The Western Passenger Association did finally concede the extension of time on the Dayton certificates to August 31, but too late to be of any value to the members from its territory.

On Thursday afternoon the visiting ladies, to the number of eighty-two, attended the theatre as guests of the ladies of the Dayton Florists' Club.

ADDRESS OF WELCOME TO THE S. A. F.

By Judge Charles W. Dale, at the Opening of the Convention at Dayton.

"Mr. President and Gentlemen of the Society of American Florists and Ornamental Horticulturists:

"In the absence of our Mayor it is my pleasure as an official of this city and country to welcome you in our midst. I don't know of a body of men who do more to bring sunshine and happiness to a community than your association. At this moment some sick person, perhaps a little child is in the act of caressing a rose whose perfume and brightness leads the sick on the road to recovery.

"By your zeal and efforts in studying and outlining your chosen work, evidences may be seen on all sides of your progress. Especially is this true in Dayton, which is essentially a city of homes. In almost every cottage we may see flowers and plants indicating the wealth of refinement and culture within. When one goes home in the evening after a hard day of toil, be he a business man or working man, and sits down amid green surroundings and inhales the perfume of beautiful flowers, is like unto the weary traveler in the far East who finds an oasis in the desert. I hope to see the time when every front yard as well as every back yard will be decorated with trees, flowers and plants, to make us

appreciate more thoroughly the grandeur and glory of nature.

"The wealth and beauty of a city make us better citizens and in that way a better country. Your work is a noble one, and it is being appreciated better every day. Every one who does his share in beautifying his property and surroundings with the beauties of Nature, should receive the thanks of all citizens. I cannot help but take this occasion to thank the National Cash Register Company for the stupendous work of this character. We are reaping the fruits of its work in a generous measure. The day will come when our citizens will show their appreciation by some substantial recognition of its great and glorious work.

"We have a beautiful city and a splendid citizenship. We want you to see us in our every-day life. We want you to enjoy your visit among us and it will be our pleasure to assist you. The keys to our gates we leave with you. Go where you may we are happy to have you within our portals at all times.

"Therefore on behalf of our citizens, I extend to you a most hearty and happy welcome."

THE EVOLUTION OF THE FLORIST.

The florists are with us this week. Holding a convention. Getting together to compare notes. Looking at each other's product. Figuring upon the cost of production. Devising ways and means of making two roses bloom where only one blooms now. A useful lot they are, these florists, and the millions of money they have invested in their business makes an industry as staid and staple as the railroads and as important to modern society as the carpet looms.

The first florist was probably a crippled old woman of the jungles. She was unable to join in the chase—as primeval woman was expected to do, until man found that he could induce her to stay at home and do the harder work of preparing the skins for clothing and caring for the children who would be needed when the neighboring band made war upon the tribe. This crippled old woman found a flower blooming by the side of the tent and, having the soul of a poet, she stuck a stick in the ground to prevent the children breaking it down. When the drouth came, she poured a little water upon the plant. When the bugs alighted upon it, she picked them off. When the frosts came she dug up the flower and carried it into the tent and throughout the long winter she watched it and cared for it—for she had no other children she could call her own, and the rest of the band of savages ignored her in her infirmities.

When the sun of spring came bright and warm, the crippled old woman carried her flower to the light and planted it again in the ground. It grew and bloomed and bore a wondrous odor and a brilliant hue—more odorous than the flowers of the wood, more brilliant than the plants of the dell. And the savages wondered at the thing, for a miracle had been wrought.

And so, taking their cue from this crippled old savage, these florists are engaged in caring for the plants, in improving their odor and their color. While the rest of us savages are busily engaged in hunting food and in pre-

paring clothing, they are busy raising flowers. They are busy with the justness of the thing, for they are our food and our clothing, and you of our flower-raisers are as equitable as the rest of the world.

It is a blessed thing that we are able to secure within the day more than enough food and clothing for our own use and that we can spare something to exchange with the florists for their flowers. It has long ago been said that man could not live by bread alone. If he could it would be a mighty poor living.

The tent of the savage, the one beside which grew the flower, was a better tent than any of the rest in the jungle. It was the tent to which the savages went in the quiet of eventide. It was the tent where charity was most abundant; the tent where peace prevailed; the tent wherein were born the ideas that were of most benefit to the world; the tent from which issued the children who were best prepared for the struggles they were to encounter.

And it has been so ever since. The home surrounded by flowers is a better home than any other. From it issue men and women who lead the purest lives. In such a home is more harmony, more of love and charity. Thieves are not born amid the flowers. Criminals do not wear a blossom in their coats. The man who seeks to destroy the peace of the community does not visit the flower gardens when the dews are upon the blooms. It is in the churches and the schools and the hospitals and the orphan asylums that one expects to see the blooming things—not in the jails and prisons.

That is why we appreciate these florists. Because we know they are making the world better as well as brighter. They are as much missionaries as those who carry the Bible. They probably cure as many diseases as the physicians. Certainly they entertain as well as the artists or the musicians. And may we learn the lessons that they seek to teach.—Dayton News.

THE BIRTHDAY BOUQUET.

Vincent I. Gorly, a wide-awake florist of St. Louis, Mo., distributed cards at the Dayton convention bearing the following excellent sentiments:

Every hustling retail florist ought to use his energy and push the "Birthday Bouquet"—help make it a fad. Just think of how many more flowers would be sold the year round in every large city if it became a more general custom. Take for instance St. Louis with 700,000 population. Out of that number about 100,000 would be eligible to receive a Birthday Bouquet. Suppose that 50,000 would buy only \$1 worth (which would be the smallest amount) there would be spent \$50,000 a year more for flowers in St. Louis and every florist would be greatly benefited thereby.

It's up to the hustling retail florist to develop every branch of the business to its utmost and this is surely a big field to work in. Why are so many flowers bought for the dead? It has become a custom. So let it be with the Birthday Bouquet. Its promotion would make two hearts happy, the one who receives the flowers and the good old florist that sells them.

CONVENTION GINGER JAR.

Looking back from the quiet of our homes we will all agree, I think, that harmony was the keynote of the Dayton convention. All was peaceful, friendly and decorous, entirely unlike the strenuous times we have experienced at various conventions in recent years. Apparently the College of Red Cardinals has taken to the woods and the Bulls of Bashan have as a consequence ceased to lash their tails and make the dirt fly. Even down at the bowling alleys there was a prayer-meeting seriousness which was really astonishing when one recalled the halcyon and vociferous times of the past. The barring out of Stevens must have had a disheartening effect on the usual liveliness of the Chicago boys. That action may have been all right in that no one not a florist should compete—and no one who made his living in a bowling alley especially; but Stevens was allowed to bowl at Washington last year. So was Moss, for that matter. It seems to me that Stevens ought to have been notified before he went to the expense of going to Dayton. It was a bad business, and I for one am sorry it happened.

The gentleman who so ably talked on postal reform was very eloquent, but far too verbose. Jno. Wanamaker told us in a much more succinct way when he was postmaster general, why we could not have a parcels post. "There are four reasons," said he, "why we can't have a parcels post: First, the Adams Express Co.; second, the United States Express Co.; third, the American Express Co., and fourth, the Wells-Fargo Express Co." We are no farther along today, and all the orator advanced was the joining of third and fourth class matter. By the way, why can't committees be more concentrated? I mean geographically. The parcels post committee of 1906, for instance, comprised Michigan, Colorado and New York. Why couldn't three good men have been got from the Washington members? That city is the battleground in postal matters. Wanamaker's Four Reasons have had their representatives there all the time. I doubt if the S. A. F. had theirs there once. The Seedsman's Association, and also the Nurserymen's Association, are represented in Washington frequently; or all the time when there is anything doing.

Last year there was a big grievance against the railroads who had advanced plants shipped in pots from rate to rate-and-half. There was a committee appointed, but at Dayton they were as scarce as the Macphersons when the sword of the Lord and of the Macdonalds got after them.

We had no fight on Closer Relations this year. The nearest approach to a breaking out of that old fire was the revival of the old canna committee. Much ardent oratory abounded, and at the conclusion one member had the courage to call a meeting for the purpose of forming a canna society.

Jno. Birnie had the misfortune of being arrested several times by the sergeant-at-arms for non-attendance at the meetings, but with the assistance of his able henchman and senechal, John Donaldson, usually got off with little damage, and continued his wanderings among the outdoor exhibits,

taking stock of his favorite geranium and so forth.

The Dayton boys moved heaven and earth for our comfort and kept the lid of the lower regions on so tight we almost doubted their existence. There may have been a slight suspicion of them here and there about street corners when the 12-minute cars came along in 60 or when collars and cuffs and shirts were reduced to pulp. But Mr. Altick, Mr. Heiss, Mr. Ritter, Mr. Frank and others too numerous to mention worked so hard for us that these little things were soon forgotten. One of the surprises of the meeting was the strength of Niagara Falls for the convention in 1907. The vote, 101 to Philadelphia's 131, was certainly a great showing. It's too bad there will be no chance for Niagara in 1908. That great International Exhibition to which the Society is now committed would appear to make Chicago inevitable for 1908.

Edwin Lonsdale had no sooner got on the home-coming train for Philadelphia than he began worrying about ways and means for the 1907 meeting. That's the way. If it isn't one thing it's another; we are never absolutely happy. But there need be no fear. There are plenty of us in Philadelphia to do the work, and we can all pull in harmony under the leadership of John Westcott, the vice-president-elect.

There is a story going the rounds about a young lady who had charge of one of the trade paper stands at Dayton. A smarty asked her, "How much is six times six?" "I don't know," said she; "is there a come back to that?" "No." "Well, I'm not sure how much six times six is, but if you take nothing from nothing it will leave you." Wow! When they are very good looking they are generally very saucy! Anyhow, that held smarty for a while.

GEORGE C. WATSON.

SHOOTING TOURNAMENT.

Following are the scores made at the shooting tournament at Dayton.

Brown, Richmond, Va., 17; Seybold, Baltimore, 14; Rogers, Cincinnati, 13; Hippard, Youngstown, 12; Altick, Dayton, 12; Scott, Buffalo, 11.

Young, St. Louis, 10; Reimels, Woolhaven, 9; Herendeen, Geneva, 7; Rasmussen, 6.

Team shoot, Dayton, 190. Florists' team, 173.

AMERICAN CARNATION SOCIETY.

The American Carnation Society held a meeting in the Hotel Algonquin on August 22, president John H. Dunlop in the chair. Some slight changes in the premium list were made. The Daybreak shade of pink was changed to Enchantress shade, and Scott shade to pink between Lawson and Enchantress.

Among the subjects to be treated at the Toronto meeting are "New Systems of Watering and Greenhouse Construction," "Are There Too Many New Carnations Introduced?" "American Carnations and Their Prospects in Europe," "Carnations from a Canadian Point of View." It is hoped that a number of foreign carnation growers may be induced to attend and make addresses.

A label will be furnished to the ex-

hibitors so that flowers will go through to Toronto without any interference from customs officers.

FLORISTS' HAIL ASSOCIATION OF AMERICA.

The annual meeting of this organization was held at Dayton, Ohio, on Wednesday, August 22, at 3 P. M. The following amendment to the by-laws was adopted:

Article V, Section 7. Any risk upon which three or more consecutive losses shall have been paid in the five years preceding the levying of an assessment, shall be considered a hazardous risk, for that assessment, and an additional 10 per cent. of the gross amount of such assessment shall be added thereto.

Officers were elected as follows: President, E. G. Hill, Richmond, Ind.; vice-president, H. H. Ritter, Dayton, O.; secretary, John G. Esler, Saddle River, N. J.; treasurer, Albert M. Herr, Lancaster, Pa.; directors, Elmer D. Smith, Adrian, Mich.; Joseph Heacock, Wyncote, Pa.; F. E. Dorner, Lafayette, Ind.

The investment of the reserve fund was left in the hands of the president, secretary and treasurer, who are to constitute a finance committee.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The schedule for the 1907 spring exhibitions of the Massachusetts Horticultural Society has been issued. Some noteworthy features of interest are the bringing out of several old-time favorites which have not been seen in the lists for many years, as well as some novelties which appear for the first time. Among these are camellias, schizanthus, imantophyllums (telivias), fibrous begonias, forced lilies, and Darwin and late single tulips.

In addition to the numerous classes of spring bulbous plants are the classes of Indian azaleas, ericas, acacias, "Easter plants," herbaceous spiraeas, and climbing and rambling roses. There is also a class of forced bulbs for amateurs only. The very liberal prizes offered should insure a good competition at these exhibitions.

For the March exhibition the Julius Roehrs Company of Rutherford, N. J., offers special prizes to the amount of \$25.00 for the best groups of hardwood flowering greenhouse plants, such as acacias, camellias, azaleas, rhododendrons, etc., to be competed for by private gardeners only.

Accompanying this preliminary schedule is a circular announcing three special prizes for decorated dinner tables to be awarded at the Chrysanthemum Show of November 2-4, 1906. These prizes are for the best decorated tables laid for six covers, and the judges are to be three ladies selected by the committee on exhibitions. The prizes offered are as follows:

First, \$75.00 and a silver gilt medal; second, \$50.00 and a silver medal; third, \$25.00 and a bronze medal.

Copies of the schedule and circular and any further information desired concerning these exhibitions can be obtained on application to the secretary, Wm. P. Rich, 300 Massachusetts avenue, Boston.

THE IDEAL PRIVATE GARDENER AND HIS WORK.

A paper read before the Society of American Florists at Dayton, Ohio, by Fred E. Palmer, Brookline, Mass.

The title of this essay was selected by the Executive Committee of the Society of American Florists, and assigned to the Boston Gardeners' and Florists' Club, as a fitting subject for its contribution to the literature of this convention. This was perfectly natural for, when questions of a philosophical nature are to be discussed, where else would one turn but to the "Athens of America," the erudite city of the old Bay State. It may be taken for granted, also, that the Gardeners' and Florists' Club of Boston, with its young and virile membership of 325 (this includes ladies), is perfectly able to handle any question that may be presented to it; but when it comes to the individual to whom this essay is assigned, every thoughtful person will agree that, while being greatly honored, he is, nevertheless, confronted with a duty both difficult and onerous.

In the first place an ideal which would be common to a number of men is difficult of conception; in fact, impossible. Ideals are essentially individual, and are more characteristic of the man even than his physical features. They change with him from day to day, as he grows in wisdom, always tantalizingly ahead like the desert mirage, yet always an incentive to better work and nobler aims. With these thoughts in one's mind it is hard to get down to earth, where even the ideal gardener belongs.

Before attempting to draw the picture of a present day ideal private gardener, it will be interesting and perhaps helpful, to cast a retrospective glance at types of other days and their environment. They are not so far removed as to be unfamiliar to most of us; indeed, many honored examples are with us yet; and as the procession of bygone forms and faces is conjured up, we bow our heads in reverence. Many of them were splendid exponents of the true gardening spirit, were faithful servants, staunch friends of the young gardeners who were committed to their charge, though sometimes severe withal. They bring down to modern times, perhaps more than any other retainer, the spirit of those feudal days, in which the extensive private garden had its birth and early nourishment.

Under old world conditions to this day the number of private gardens of any size is a fixed quantity; new creations are few and far between and are largely offset by the decay and abandonment of old establishments; so, consequently, the market for head gardeners has always been a dull one. A satisfactory and satisfied incumbent held his position often for life. Not much was required of him in the way of technical or scientific knowledge; in fact, too much of that sort of thing would have spoiled him. He was essentially a retainer, although by common consent ranking considerably above the domestics, conservative to a degree, which is always characteristic of those who lack ambition because of the absence of opportunity. A baneful blight of the old world, supremely happy if a modest pension awaited him, or fortunate if able to end his

days as the proprietor of a small grocery or public house.

One can easily realize that under the above conditions there must have been constantly in existence a small number of rejected ones among the ranks of journeymen gardeners. Head positions, not always being awarded with regard to merit, the under gardeners had little incentive to acquire an education above the common, the chances being that they would end their days in the ranks with the laborer. These things may explain the anomalous condition that has undoubtedly existed up to the present time and still exists, viz: that of a large number of intelligent men, engaged in a pursuit so near to nature, so lofty as to transcend almost all others, and if including agriculture, which it naturally does, so important in the world of economics as to comprehend all the necessary things of life within its scope; and yet who are so poorly equipped with technical and scientific education as to render them, as a class, marked in this respect.

It finds its most harmful expression in a conservatism which is positively suicidal in this new day and country. Failing to recognize the opportunity that is now before them of lifting themselves and their craft from the realm of drudgery and servitude into that of science and art where it properly belongs, cherishing the ideal of "My Lord" and "My Lady" who never interfered, the long hours of labor with small pay, the willing helpers who kept going fourteen hours per day if ordered to do so, no horse power, horses had to go to bed early—no hose, no anything, in fact, that savored of innovation and that required new study; those were indeed good old days.

Let us turn, however, to the conditions which confront us in this marvellous age and country. The ordinary slow processes of evolution and national growth have been entirely ignored. Development along economic, social and art lines has been so rapid as to defy the average observer and student to trace it. The nation, from a condition of extreme crudity and devouring energy which might apply be compared to the caterpillar stage, has suddenly emerged into a state of refinement and keen appreciation of beauty and art that is as startling and interesting to contemplate as the bursting forth of the perfect butterfly. Let us hope that this simile may not obtain in its ephemeral sense, however.

During this period of strenuous commercial activity, the earth has been made to yield her treasures most bountifully. Nothing in the world's history compares with the development of the natural resources of this country during the last fifty years. The struggle has been terrific, and the confusion even as that of the mighty rapids and whirlpool of Niagara. Out of this maelstrom and into the quiet waters of work well done, victory achieved, and names made, have drifted thousands of men who are now seeking rest, recreation and happiness, the end to which all previous effort has been but the means. Back to nature is the word, and to the soil which gave them their material wealth, they again and for those more subtle demands, to satisfy the soul. These are the men who have built up the nation, and

what is to be done with them? In the present economic condition, especially here in the United States, or the ideal of the old world, of a partnership with a man of the same no intelligent person would care to the spirit of the old world. What kind of a partnership would we have who shall fit the man to the desire for happiness and at the same time seize the opportunity to exalt the status of his beloved profession, and raise himself to the proper social, economic and educational plane, which he naturally and properly belongs? Let us consider the just part of this theme first and discover what duties will be required of him or, in other words, what is his work, and afterwards try and fit the man to it.

The common idea among young gardeners who are ready and well qualified to take charge of important places is, that the measure of these duties should be included within the following limits; to be able to grow the regular run of greenhouse stock successfully, including orchids, so that when exhibition times come around they may gather in some prizes and nail the cards up in the potting shed to the great glory of the house, and their own emolument. Incidentally, they expect to supply the house with flowers of limited quantities of their own selection, and to grow fruit under glass. They consider the kitchen garden to be part of their sphere, although, as a rule, having had very little experience in that department, also the pleasure grounds with which they have had still less. At first sight, it does seem that the list includes about all that should be required of the average gardener, and if he were a master in every branch mentioned, he would certainly be pretty well equipped as a workman.

The duties of the ideal gardener, however, cover a much wider range. He has formed a partnership with the proprietor, the object of which is to produce a certain indefinable, intangible thing called happiness. Primarily the happiness of the latter and also that of his own, as a natural corollary. With this in view, he will seek to discover the bent of his employer and, having found it, to guide it into practical channels. His common sense will often come into conflict with whimsical desires, but with plenty of tact and a desire to serve, this will not be a serious source of trouble. He will be required to plan and lay out an entirely new place, erect greenhouses, put in water supply, survey and grade land, build drives, handle large bodies of men intelligently, to study up-to-date methods, and appliances such as labor-saving machinery, insecticides and fertilizers, scoffing at nothing because of its strangeness, but testing desirable things intelligently with a view to conducting the place with economy and facility. One of his most delicate duties will be to preserve peace and harmony among his fellow employees, listening to the complaints of his subordinates with a judicial and kind ear, and pleading their cause with their employer. To the younger gardeners under his charge, he will be peculiar and somewhat arbitrary, but of the part he is to play in the

a position to know their desires and ambitions, and should use every effort for their uplifting into ideal men and gardeners. Short hours of labor, liberal wages, libraries, opportunities to attend lectures and exhibitions, encouragement to form or join clubs, and above all, a kindly personal interest in their welfare, easily lie within his power to promote.

In providing the various garden products, he should study the trend of fashionable taste and try to forestall the demand in this respect, it being always extremely pleasing to the proprietor to find himself the possessor of the newest things in flowers, fruits and vegetables. On the other hand, it is bad taste on the gardener's part, to persistently attempt to force his own particular hobby on an unwilling employer; this is undoubtedly a rock on which many a good man splits. It is the duty, and should be the pleasure, of the gardener to treat friends of the proprietor with courtesy and respect; this admonition is particularly applicable in cases when married children, or other relatives, locate permanently on the home estate and whose presence there is often considered by the gardener as an intrusion. Generally this involves merely the production of more garden stuff of every kind, which means more labor, a matter which the ideal gardener can easily adjust by frankly explaining it to his employer.

A thousand other duties might be enumerated which attach to the ideal gardener of to-day, which in years gone by were supposed to be outside of his province. Far from considering these added burdens, however, he should welcome them as indications of increased opportunities and tributes to his advanced intelligence.

To successfully meet these requirements, what kind of a man is needed? Certainly one with a most complete education in the knowledge and cultivation of plants that can be conceived. This should have begun in the lowest grades of the grammar school, and continued through every step of school life, not as a theory or dry recital of facts, but out in the garden and field. Happily this important feature in the education of every child, whether destined for the horticultural profession or not, is beginning to be recognized by our public educators. In the case of the ideal gardener of course, this study should never cease; it should include a knowledge of the lower organisms, both vegetable and animal, which we call diseases, also that of the insect and animal world in general, in so far as it affects plant life for good or ill.

A knowledge of physics, especially that branch pertaining to mechanics; of chemistry to the extent that he may appreciate the relative values of different elements in soil, air and water. To know the effects of various chemicals on insect life, and the poisons that are contained in many plants with their antidotes, would be extremely useful. The fundamental laws of art wherein it is shown that harmony of colors and forms follow as fixed and well defined rules as those that exist in the phenomena of sound, should be understood. This would naturally include a study of the principles of landscape gardening,

of elementary land surveying and the use of the instruments connected therewith.

All these and a hundred other things may be enumerated as contributing to the mental equipment of a modern first-rate gardener. It is a pretty formidable curriculum, especially to the man whose lines of perspective have not carried him much beyond the potting bench, whose chief ambition is to drop into an easy job where the boss is away most of the time, and where no embarrassing questions are asked. Let it not be supposed for a moment, however, that the mere acquisition of all this knowledge in itself constitutes an ideal man. These things are simply tools to be used as means to an end, which is wisdom, and this finds its highest expression in the ability and desire to serve. If in the course of all these years of study and application, he has not discovered that his own measure of happiness is commensurate with the service which he renders others, then his time and labor have been largely wasted. Unselfish service is the philosopher's stone. He who possesses it scatters happiness where ever he goes, to his employer, his fellow laborers, in fact, to all with whom he comes in contact. He possesses a pleasing personality, is interesting in conversation, and tactful in manner. Of him, his employer makes a friend and companion. He is not only an ideal gardener, but an ideal man.

RECENT IMPROVEMENTS IN RETAILERS' METHODS OF OFFERING FLOWERS.

Paper read by Irwin Bertermann, Indianapolis, before the Society of American Florists, at Dayton, Ohio.

In the time of the great Roman, Nero, the methods of arranging and presenting flowers were in keeping with that wonderful period. The Romans understood how to combine flowers with statuary, make wreaths and designs for classic pieces, to furnish sparkling fountains with plants, to use artistic vases, to blend colors and to decorate in a manner the leading florists of this great country are earnestly striving after. To be sure they did not watch or have the details of the present times—paper boxes of various hues, green, pink and white wax paper, pins to match the various flowers, cords, tassels, gauze, matings and many other accessories were unknown to them, but the beauty and detail of their flower arrangements are a standard which all of us may look to.

INTERIOR FITTINGS.

A compartment the size of a small room refrigerated by the establishment's plant, with glass shelving on either side and backed by mirrors, is the "proper caper" these days. This enables the store man to take his customers into the box without disturbing the flowers or causing them to suffer from different temperatures.

THE WINDOW DISPLAY.

The florist's window is now also an all important point. It has long been recognized as his most efficient advertising medium, but it has only been of late years that expert trimmers were employed and the minutest details carefully observed. The flowers in the window must be arranged so that the colors blend or separate parts

of the arrangement must contain a massing of one variety. The florist's window must attract the eye of those passing, and surpass in beauty and artistic value all the windows in the city, for in arrangement and neatness it must be equal to them and the beauty of the contents naturally surpass all others.

COMMERCIAL VS IDEALISTIC.

The subject of the writer does not permit of a sermon, but this is a most opportune time to impress upon my listeners that so much is sacrificed for commercialism in the present day. Everything is made and arranged according to the ledger account. In this we find our German and French brother far superior. Not only is the commercial side of the florist's business taken into consideration in Europe, but the idealistic side is also well attended to. It is not only necessary to arrange a wreath or basket hurriedly, but it is also necessary to arrange it in an idealistic and artistic manner. I would refer every American retailer to the *Bindkunst*, a German trade paper. The illustrations therein will easily convince the reader that we are far behind in detail and symbolical work. The Berlin and Parisian florists not only put forth work which earns the dollar, but arrange pieces which signify much more than is found in our ordinary run of baskets, wreaths, pillows, etc.

ARRANGEMENT OF STORES.

Great improvement has been noticed in late years in the arrangement of the flower stores. It is essential that the arrangement of the up-to-date flower store be such that it is just a trifle beyond the finest customer who enters, if it is to elicit, particularly from the feminine flower expert, the admiration, respect and last but not least, the patronage. Hampers and baskets, also vases and boxes of flowers are at all times in plain view and furnish suggestions and ideas to any one entering. Often times many of these arrangements go to waste, but they give prestige to the retailer who has energy enough to gain ideas and present them to his customers in a practical manner.

NO APOLOGY THESE DAYS.

An apology is no longer a necessity in the flower business as it was years ago. Suitable stock can be had at all times, though of course this varies with the season. The store man who takes it for granted that a customer should know without being shown, how to use the flowers, is lost. It takes constant arrangement and a lot of new ideas to please the better class of customers. It was but a few years back that all customers looked alike to the clerk as they entered the store room. It is now necessary to grasp the idea of catering to different classes of people. The rich, the poor, the artistic, those of poor taste, those who want a lot for their money, those who want only the best, arranged in the most artistic manner, those who want certain color combinations, these qualities must all be grasped at a glance by the clerk, or he will lose many a customer who would have been well satisfied had the clerk been a better judge of human nature. The clerk no longer presents his wares in the timid way of years gone by; he knows the value of his stock and is not to be

CRIMSON RAMBLER ROSES

SUITABLE FOR EASTER POT PLANTS

We have several thousand Extra Strong Plants with many branches, of our own growing, for delivery this Fall, graded as follows:—

XXX Strong, 5-year old, 4 to 6 feet Canes, many branches.....	per 7	\$2.00	per 100	\$15.00
XX " 3 " " 3 to 4 " " " "		1.75		12.00
X " 3 " " 2 to 3 " " " "		1.00		7.50
" 2 " " 1 to 2 " " " " .....		.50		3.00

WRITE FOR PRICES ON LARGER SIZES

We can also furnish White, Pink and Yellow Ramblers, XXX Grade, at same Rate

PALISADES NURSERIES GROWERS FOR THE TRADE SPARKILL, NEW YORK

NOW READY NARCISSUS PAPER WHITE GRANDIFLORA and WHITE ROMAN HYACINTHS

We offer the finest bulbs for immediate delivery as follows:

Narcissus Paper White Grandiflora. finest quality bulbs, 13 c/m and up, 1,250 bulbs to the case, \$11.25 per case; less quantities at \$1.00 per 100.

Paper White Grandiflora narcissus is always a money-maker. Plant at once for earliest crop, which is the most profitable.

Bermuda Buttercup Oxalis, \$1.00 per 100, \$7.50 per 1000.

White Roman Hyacinths, finest quality bulbs, 12 to 15 c/m, about 1,800 bulbs to the case, \$2.50 per 100 \$23.00 per 1,000.

Freesia Refracta Alba, finest Bermuda-grown bulbs, 1 1/2 inch up, \$7.50 per 1,000.

Lilium Harrisii, 5 to 7-inch bulbs, 400 to the case, \$16.00 per case; less quantities, \$5.00 per 100. Larger sized bulbs all sold out.

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

bluffed by any customer, but stands firmly by any position he may take.
ADVANTAGE TAKEN OF INDIVIDUAL PLANTS.

Advantage is now taken of the peculiarities of each plant; a ribbon bow of cord placed in the proper manner and to the advantage of the plant, a pot cover in perfect harmony, a bit of moss or a little foliage, enhances the value from ten to fifty per cent. It is the neat and natty plant or flower that attracts and sells quicker and at a better figure than a more expensive plant carelessly arranged.

INTERURBAN RAILROADS A HELP.

One of the most recent improvements the retailer has is the great net work of interurban systems which are being built throughout the country. This is particularly true of my own state, Indiana. The close proximity of the greenhouses and the store, due to the electric lines, makes it possible for the retailer to have fresh stock at all times. There is no longer room for old stock as this is many times due to carelessness in ordering. It only takes a telephone call and fresh stock will be on hand in a few hours, whereas in years gone by large amounts had to be ordered at one time.

IMPROVEMENTS IN DESIGNS.

As we all know the day of the stereotype flower piece is a thing of the past. The florist now confines his funeral work almost entirely to baskets, bunches, wreaths and blankets. The view is now taken by those who are accustomed to buying flowers that offerings are sent to lighten the sufferings of the bereaved, not to make it

(Continued on page 245.)

Thorburn's Bulbs

**Hyacinths, Tulips,
Narcissus, Crocus,
Lilies and all other
Bulbs for Florists**

Send for our Whole ale Florists' Bulb List Now Ready.

J. M. THORBURN & CO.
33 Barclay St., through to 38 Park Place
NEW YORK

FRENCH FREESIAS

75c. 100; \$6.00 1,000

W. Elliott & Sons
201 FULTON ST., N. Y.

BULBS BULBS

Please ask for my special offer about Hyacinths, Tulips, Crocus, etc.

K. VELTHUYS

Hillegom, Holland
BULBS BULBS
WHOLESALE ONLY

LADY GAY AND

HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

Catalogue mailed on request.

M. H. WALSH

ROSE SPECIALIST WOODS HOLE, MASS.

WARNAAR & CO.

Sassenheim, Holland

Growers of D. N. Van Sion, S. N. Golden Spur, Peonies Duchesse de Nemours, Festiva Maxima, Marie Lemoine (Calot), Canary, Lady Leonora Bramwell, Mons. Charles Leveque (award of Merit London 1906), Spirea Gladstone, Superbe, etc.

Vegetable Plants

SWEET POTATO, CABBAGE, TOMATO, PEPPER, CELERY
All kinds of Vegetable Plants. Best Plants, Lowest Prices. Can ship direct by all express companies insuring low express rates. Write for Prices. Send list of your needs in Vegetable Plants and we will give you special prices.

PLAINFIELD NURSERY, Plainfield, Indiana

SEED TRADE.

This is the season of country fairs, and until the middle of October something will be doing in that line. The country fair as an advertising medium has not held high rank with most seedsmen, but a few have attended State fairs, and have exhibited vegetables and plants "grown from our seeds" and incidentally registering the names of visitors "for our next season's catalogue."

The writer has at some time or another attended a large number of these fairs, and has always noted with satisfaction that the seedsmen's booths have been centers of interest. Whether any considerable volume of business has subsequently resulted he cannot say, but it would be interesting to hear from those who have tried the experiment. It is an open question whether large mail order houses would derive benefits commensurate with the expenses necessarily incurred, particularly from the county and district fairs, but seedsmen depending largely on local trade should find this a profitable method of advertising.

A number of dealers in various parts of the country consistently exhibit at all local fairs, and say it pays them well. Such firms have a marked advantage over the large catalogue houses for, whereas the latter must depend on seeds, vegetables and plants only, the former in addition can exhibit agricultural implements, dairy supplies, poultry goods, and in short, about everything required on the farm or market garden. No class of merchants have a deeper interest in the prosperity of the farmer and market gardener than the seedsmen, and they should aid and encourage everything that will benefit agriculture, and no more practical way can be suggested than by taking a lively and active interest in local fairs. In this way they get the good will of the officers, and of all the merchants and dealers who may have a less direct and vital interest in the success of the fair. It also impresses the farmers with the fact that the seedsmen sympathizes with their efforts to improve their condition, and is willing to do all he can to aid them. In fact he identifies himself with their aims and purposes, and thus a bond of sympathy is established which in the end leads to profitable business for him. Attendance at the fairs also enables him to become personally acquainted with the men and women on whom he mainly depends for the success of his business. Looking at this matter from a disinterested standpoint, it looks as though the seedsman cannot afford to neglect the country fair.

Crop conditions remain about the same as summarized in last week's issue. The weather has been mainly favorable, and with a continuance of the same conditions for a few weeks longer, good crops in most lines will be assured, though without warm, bright weather during the fall, late varieties of corn may be spoiled, even after the crop is made.

Now Ready

Zirnglebel's Prize Pansy Seeds in trade packages, \$1.00 each. Giant Market, 2000 seeds; Giant Fancy, 600 seeds. Full directions with each package.

AUGUSTUS ZIRNGIEBEL, Needham, Mass.

NARCISSUS

Paper White Grandiflora

PLANT NOW FOR EARLY CROP

We offer for immediate delivery, extra fine quality bulbs of the True Grandiflora Type, 13 cm and up at \$1.10 per 100, per 1000 \$9.00; per case 1270 bulbs \$11.25.

Cyclamen Seed

NEW CROP

Michell's Giant Strain

Grown for us by one of the leading growers in Europe, and for size of blooms and free flowering qualities cannot be excelled.

	100 Seeds	1000 Seeds
GIANT WHITE.....	75c	\$6.00
GIANT PINK.....	75c	6.00
GIANT RED.....	75c	6.00
GIANT WHITE, with Red Eye.....	75c	6.00
GIANT MIXED.....	60c	5.00

Send for our Wholesale Bulb Catalogue, and write us for Special Prices on Bulbs in large quantities.

HENRY F. MICHELL CO.

1018 MARKET ST., PHILA., PA.

FARQUHAR'S

Famous

CYCLAMEN

The Finest Grown

Farquhar's Giant White
Farquhar's Giant Pink
Farquhar's Giant Blood Red
Farquhar's Giant Crimson

And twelve others

Farquhar's Columbian Prize Mixed

Per 1000 Seeds \$10
Per 100 Seeds \$1.25
Per pkt. 75c.

R. & J. FARQUHAR & CO.

6 & 7 S. MARKET STREET, BOSTON

England's Prize Giant Cyclamen.

From an eminent European specialist whose strain we know to be the BEST offered to the trade.

	50 Seeds	100 Seeds	1000 Seeds
Crimson Queen. Rich deep maroon red.....	\$0.40	\$0.75	\$6.00
Dixon Hartland. Pure white, claret base.....	.40	.75	6.00
Duke of Connaught. A superb cherry color.....	.40	.75	6.00

	50 Seeds	100 Seeds	1000 Seeds
White Swan. The finest white Cyclamen in cultivation.....	\$0.40	\$0.75	\$6.00
Rosy Morn. Bright Rose with claret base.....			
English Prize Mixed Comprising the best English show varieties.....	.40	.75	6.00

Write for our Complete Bulb and Flower Seed Catalogue just issued.

JOHNSON SEED COMPANY

217 Market Street

HERBERT W. JOHNSON of the late firm of Johnson & Stokes, President
PHILADELPHIA, PA.

THOS. J. GREY & CO.

Fresh Flower, Farm and Garden Seeds, New Mushroom Spawn. Extra quality - French, Japan and Dutch Bulbs. A full line of Agricultural Machinery and Repairs

32 South Market St., Boston

SEND FOR CATALOGUE

THE CHOICEST STRAINS OF STOCKS

Including

C'NERARIA, CALCEOLARIA, CYCLAMEN, PANSY, PETUNIA, etc.

can be had from

JAMES VICK'S SONS,
Rochester, N. Y.

FOR PROMPT SHIPMENT - FULL LINE

High Grade

French Bulbs

Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS.

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

QUALITY SEED BULBS PLANTS
SEND FOR CATALOGUE.
ARTHUR T. BODDINGTON
342 West 14th St., New York.

MAKERS of PURE CULTURE TISSUE
COLUMBIA, ALASKA, BOHEMIA
MUSHROOM SPAWN
Fresh Spawn Always on hand.
WRITE FOR PRICES.
COCHRAN MUSHROOM & SPAWN CO.
911 CHEMICAL BLDG., ST. LOUIS, MO

HELLER'S MICE-PROOF SEED CASES.



Send for Circulars.
Heller & Co., Montpelier, O.

CabbageWorms

Killed by lightly dusting with
HAMMOND'S SLUG SHOT

For Pamphlet write to Fishkill-on-Hudson, N. Y. Sold by Seedsmen

The Universal Opinion of all those who were fortunate enough to see
OUR EXHIBITION AT DAYTON

placed same away ahead of all similar displays, past or present.

NOW FOR FALL BUSINESS

Get your orders in early. Be ready for the opening of the new season.

Your orders can now be promptly attended to with the latest designs.

H. BAYERSDORFER & CO.

The Florists' Supply House of America

56 North 4th Street, PHILADELPHIA, PA.

RECENT IMPROVEMENTS IN RE-TAILERS' METHODS OF OFFERING FLOWERS.

(Continued from page 243)

look more funeral like. As many colors are used as is consistent with good taste.

PUBLIC APPRECIATES FLOWER SEASONS.

The general public now appreciates the various flower seasons. They understand that chrysanthemums are not to be had in March, or alpine violets in July. They look for the store man to have select, seasonable stock on hand at all times. It is possible for him to keep things moving lively almost the entire year. The dull summer season is not nearly what it used to be, and the energetic tradesman can make much of it by handling and arranging the choicest seasonable stock. Seasonable novelties are now always sought for in the flower shops. Small turkeys, ducks, and various novelties must be on hand at Thanksgiving. Chimes, bells, wreaths, etc., must be on hand for Christmas and so on for every festive period. The public has learned to know that the flower shop is the proper place to obtain novelties which are not to be had elsewhere.

Flowers are no longer offered in receptacles which were formerly supposed to heighten the beauty of the contents by contrast with their shabbiness. The grower now affords good glass vases and his swell brother, the retailer, finer articles, not excluding cut-glass or precious metals.

The growth of the retailer has been such that the modus operandi is patterned after the larger department stores and matters are systematized so that, for instance, an employee who supposedly does nothing but wait on customers, does not hide the broom or emerge from the cellar looking as if he had been in an encounter with the coal pile or moss bin.

THE TELEPHONE AN AID

The use of the telephone, long distance and local, in offering flowers is increasing in enlightenment of the public in regard to them. A fair estimate of the amount sold in this manner is 40 per cent. of the gross sales, so the importance of having the 'phone answered in a proper manner is readily seen. The brainiest, shrewdest, best informed and most successful man in the establishment is now employed to answer the telephone. The fisherman at the 'phone must offer the most tempting bait, play with the

**JOHN BREITMEYER'S
SONS**

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada



WASHINGTON,
D. C.

GUDE'S

**SAMUEL MURRAY
Florist**

Coates House Conservatory

1017 BROADWAY, KANSAS CITY, MO.
Both 'Phones 2670 Main

game, hook the fish, reel it in and place it securely in the net before his work is accomplished. In many instances two or three telephones are placed in one store so that the impatient customer may not turn to a competitor

THE ART PROGRESSES.

The art, and it is one, of arranging boxes of select long stem flowers, skillfully finished with violets, mignonne, pansies, and lily of the valley has now reached the point where to the initiated "Excelsior" need no longer be proclaimed. It is here where proof of skill and discernment of color and deftness in arrangement are most apparent. Often times choice boxes are lined with silk and the exterior ornamented with bows of ribbon or bunches of violets, valley and roses, softened with sprays of maidenhair ferns and A. Farvense. This perfection in the make-up of cut flower boxes is one we may justly feel proud of. For the custom of sending fine boxes of beautiful flowers, like the American Beauty, originated with us—the Americans.

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

571 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

**Geo. H. Cooke
FLORIST**

Connecticut Avenue and L Street
WASHINGTON, D. C.

**FRED C. WEBER
FLORIST**

4326-28 ST. LOUIS, MO.
OLIVE STREET
Established 1873
Long Distance Phone Bell Lindell 676

E Y R E S

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N. Y.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

DAHLIAS

The Best Stock coming
to the Phila. Market ...

THE LEO NIESSEN CO. WHOLESALE FLORISTS

Store open 7 A. M. to 6 P. M. **1217 Arch St., PHILA.**

In writing advertisers, mention Horticulture

CHOICE BEAUTIES

\$1.00 to \$3.00 per dozen

VALLEY

\$3.00 and \$4.00 per 100

Samuel S. Pennock

The WHOLESALE FLORIST OF PHILA.

1603-1618 Ludlow St. Store closes, 6 P. M.

Carnations.
Beauty Bride
and Bridesmaid.
Lily of the Valley.
Sweet Peas.

Telephone 6268-6267 Main
WELCH BROS.
15 Province St.
BOSTON

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS
PHILADELPHIA, PA.

EVERYTHING SEASONABLE IN
CUT FLOWERS

EDWARD REID Wholesale Florist
1526 Ranstead Street, PHILADELPHIA
Store Closes 8 P. M.

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

PETER REINBERG

WHOLESALE
CUT FLOWERS

51 Wabash Av., Chicago, Ill.
In writing advertisers, mention Horticulture

EXTRA QUALITY ASTERS

W. E. McKISSICK
Wholesale Florist
1221 Filbert St., PHILADELPHIA

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO August 6	ST. LOUIS August 13	PHILA. August 27	BOSTON August 30
ROSES				
Am. Beauty and Edgely Fan. & Sp.	15.00 to 25.00	15.00 to 30.00	25.00 to	16.00 to 25.00
" Extra.....	8.00 to 10.00	10.00 to 12.50	16.00 to 20.00	8.00 to 12.00
" No. 1.....	5.00 to 6.00	6.00 to 8.00	8.00 to 12.00	4.00 to 6.00
" Lower grades.....	2.00 to 4.00	3.00 to 5.00	4.00 to 6.00	.50 to 2.00
Bride & 'Maid—Fan. & Sp.....	5.00 to 6.00	3.00 to 4.00	4.00 to 6.00	3.00 to 4.00
" Ordinary.....	5.00 to 4.00	..... to 2.00	2.00 to 3.00	.50 to 2.00
Golden Gate, Faocy.....	5.00 to 6.00	3.00 to 4.00	4.00 to 0.00	3.00 to 4.00
" Ordinary.....	2.00 to 4.00	..... to 2.00	2.00 to 3.00	.50 to 1.00
Liberty, Faocy.....	5.00 to 6.00	3.00 to 5.00	6.00 to	3.00 to 6.00
" Ordinary.....	2.00 to 4.00	..... to 2.00	2.00 to 4.00	.50 to 2.00
Richmond, Fancy.....	5.00 to 6.00	3.00 to 5.00	6.00 to	3.00 to 5.00
" Ordinary.....	2.00 to 4.00	..... to 2.00	2.00 to 4.00	.50 to 2.00
Kaiserin, Carnot, Chatenay, Fancy.....	5.00 to 6.00	5.00 to 6.00	6.00 to 8.00	3.00 to 6.00
" Ordinary.....	2.00 to 4.00	3.00 to 4.00	3.00 to 4.00	.50 to 3.00
CARNATIONS				
Faocy.....	1.50 to 2.00	1.00 to 1.50	1.50 to 2.00	1.00 to 1.50
Ordinary.....	.75 to 1.00	.50 to 1.00	.75 to 1.00	.50 to .75
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to .....	..... to 50.00	30.00 to 50.00
Lilies.....	6.00 to 8.00	..... to	12.00 to	5.00 to 8.00
Gladioli.....	2.00 to 3.00	1.00 to 1.50	3.00 to	1.00 to 4.00
Asters.....	.75 to 2.00	.50 to 5.00	1.00 to 3.00	.20 to .75
Lily of the Valley.....	2.00 to 3.00	..... to 3.00	2.00 to 4.00	2.00 to 4.00
Sweet Peas.....	.50 to .75	.10 to .15	..... to .....	.10 to .25
Mignonette.....	..... to .....	..... to .....	..... to	1.00 to 2.00
Adiantum Cuneatum.....	.50 to 1.00	1.00 to 1.25	1.00 to .....	.50 to 1.00
" Crownatum.....	.75 to 1.00	..... to	1.50 to .....	..... to 1.50
Smilax.....	10.00 to 15.00	..... to 12.50	12.00 to 15.00	12.00 to 16.00
Asparagus Plumosus, strings.....	25.00 to 30.00	25.00 to 40.00	25.00 to 50.00 to 50.00
" " & Sprenger bunches	25.00 to 30.00	25.00 to 50.00	25.00 to 50.00	20.00 to 50.00

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CUT FLOWER MARKET REPORTS

Last week was a disastrous one for the flower dealers. The beginnings of an improvement which it is hoped will be permanent are now under way and, while there is no radical change as yet, there are indications of better quality and reduced receipts in several things that have been burdening the market. Asters are not so abundant as they were and sweet peas are about finished. Roses from young plants are of better size and a few cool nights with heat in the pipes will remove the mildew which has been disfiguring the flowers from old stock. Carnations from the field plants are beginning to come in and the quality is such as to indicate that the plants are in healthy condition generally. A good fall business is confidently looked for.

The market was swamped with flowers of all kinds the past week. Gladioli of all qualities were very plentiful. The same may be said of ordinary asters, while the select stock moved rapidly and at good prices. Severe hot weather, the thermometer registering from 75 to 92, brought shipments of roses in somewhat full-grown condition. Longiflorum and speciosum lilies were also quite plentiful, but didn't move as fast as desired. It being a very quiet week, roses suffered the most. Taking the market all through it was a case of Genuine Good Old Summer Time.

The heat the past week has been simply terrific, and this, together with heavy thunder storms almost every day, has reduced all trade, except the regular funeral work, to very small proportions. Outdoor flowers, owing to the continuous wet weather, are not over plenty; and what there are in the market are only fair in quality. Roses and carnations sell fairly well, but it will be another month before trade assumes any special degree of briskness. The seedsmen are receiving French and Bermuda bulbs this week, and sales in this line are starting briskly. Everybody who went to Dayton had a glorious time, and those who remained at home say they will not miss Philadelphia next year.

Business conditions the previous week were generally satisfactory, as was the supply of stock. Carnations are very small. Roses sell very well, and are obtainable in great quantities. Good asters are in abundance, and have their proper demand.

Lilies and other reasonable stock can be had in fair quantities, with the demand slow.

During the past week business improved wonderfully, and there was much need, as the early part of the season was not up to expectations. From now on, however, there is business in sight to keep the florists busy. The preliminaries for several large entertainments are under way. The first of these will be given by Mrs. O. H. P. Belmont at Belcourt. I hear that Mrs. Belmont insists upon everything in connection with the affair being as original as is practicable. No matter how that will be, there will be lots of flowers and other material used up there. There are but slight changes in price. Roses are better than they were of late. Carnations are improving in appearance, also. Gardenias are still plentiful, but not in such over supply as they were, and I think that in another week they will be scarce enough to suit growers.

Almost without exception trade reports for the week have been unfavorable, but the prospects ahead are bright. The vacation season is about over and greater activity will be the rule from now on. Prospects are excellent for big crops of dablials and later on of roses and carnations. In the latter, field grown plants are scarce, many of the larger growers reporting less than half a crop. Advertised prices have not advanced much, as yet, and those who are still short should lose no time in taking advantage of the present favorable market. Everything points to famine prices before all are supplied. The large growers have been adding to their facilities for the fall and winter trade as fast as possible, and the distributing centers have also been showing great activity. The watchword all along the line is "get ready." As Felix Isman says: "As long as these United States continue to grow—and grow they must—so long will the flower trade keep on increasing." This spirit animates the whole trade here, and will undoubtedly do much to make things hum during the coming season.

An invitation was extended by the Society of Southern Florists and Ornamental Horticulturists, which will hold its first annual meeting and convention November 15-16-17, 1906, a New Orleans, to S. A. F. members to attend them, and also to send exhibits for that occasion.

PHILADELPHIA NOTES.

Albert L. Campbell, late with Edward Reid, and Samuel S. Pennock opens up at 1519 Sansom street, on Sept. 1st in the wholesale florist business.

H. Bayersdorfer & Co.'s new building is at 1129 Arch street. It will be ready for occupancy by January 1st. The lot is 35 ft. wide by 150 ft. deep, and will be devoted entirely to this enterprising firm's florists' supply business, nearly doubling their present capacity. The location is very central, being right at the Reading Terminal Station, and will be a great convenience for visitors. We extend our congratulations on this evidence of progress and prosperity.

The new building of the Leo Nielsen Co., now in course of construction, is on the same street as Bayersdorfer's, about a stone's throw further west. Concentration of location with expansion of facilities seems to be the order of the day in Philadelphia at present.

The advice of Horace Greely, "Go West, young man," was taken by Chas. E. Meehan; but he has not gone far—three or four blocks only—halting with Samuel S. Pennock at 16th and Ludlow streets, where the new combination of the S. S. Pennock-Meehan Co. has blossomed out in consequence. Much favorable comment is heard on all sides on this new development.

An informal meeting of leading florists was held at Horticultural Hall on the 27th to congratulate John Westcott on his election as vice-president of the S. A. F. Much eloquence and good cheer abounded, and all promised to work earnestly to make next year's convention a success.

Edward Reid has returned from his usual Southern trip and reports business prospects bright for the coming season. A lynching took place at one of his stopping places, but Mr. Reid wisely kept out of it. But if the victim had been an express agent, I doubt if Mr. Reid could have stayed away.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next meeting of the club will be held at Horticultural Hall, Boston, on September 18, at 8 o'clock. A number of prominent members will give vacation experiences, in lieu of a regular lecture. Applications for membership continue to come in and an addition of 40 new members is expected at the coming meeting. Special attractions to interest all are being arranged for, and a rousing gathering to start the fall campaign is assured.

W. N. CRAIG, Secretary.

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	Last Half of Week ending Aug. 25 1906	First Half of Week beginning Aug. 27 1906	Last Half of Week ending Aug. 25 1906	First half of Week beginning Aug. 27 1906
Roses				
Am. Beauty and Edgeley fad and sp.	20.00 to 25.00	20.00 to 25.00		
" extra.....	8.00 to 12.00	8.00 to 12.00		
" No. 1.....	4.00 to 6.00	4.00 to 6.00		
" Lower grades.....	1.00 to 2.00	1.00 to 2.00		
Bride & 'Maid, fad and sp.....	2.00 to 4.00	2.00 to 4.00		
" Ordinary.....	.25 to 1.00	.25 to 1.00		
Golden Gate, fancy.....	3.00 to 4.00	3.00 to 4.00		
" ordinary.....	.25 to 2.00	.25 to 2.00		
Liberty, fancy.....	4.00 to 6.00	4.00 to 6.00		
" ordinary.....	.25 to 2.00	.25 to 2.00		
Richmond, fancy.....	6.00 to 8.00	6.00 to 8.00		
" ordinary.....	.25 to 2.00	.25 to 2.00		
Kaiserin, Carnot, Chatenay, fancy.....	1.00 to 6.00	1.00 to 6.00		
" " " ordinary.....	.25 to 2.00	.25 to 2.00		
Carnations, Fancy.....	1.00 to 2.00	1.00 to 2.00		
Carnations, Ordinary.....	.50 to .75	.50 to .75		
Cattleyas.....	25.00 to 50.00	25.00 to 50.00		
Lilies.....	8.00 to 10.00	8.00 to 10.00		
Gladioli.....	.50 to 1.00	.50 to 1.00		
Asters.....	.15 to 1.00	.15 to 1.00		
Lily of the Valley.....	1.00 to 3.00	1.00 to 3.00		
Sweet Peas, bunches.....	1.00 to 4.00	1.00 to 4.00		
Pignonette.....	..... to .50	..... to .50		
Adiantum Cuneatum.....	.25 to .50	.25 to .50		
" Crownatum.....	1.00 to 1.50	1.00 to 1.50		
Smilax.....	6.00 to 8.00	6.00 to 8.00		
Asparagus Plumosus.....	10.00 to 25.00	10.00 to 25.00		
" " " & Sprengeri, bunches.....	15.00 to 35.00	15.00 to 35.00		

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ROSES				
Am. Beauty and Edgely, fan and sp.	20.00 to 25.00	20.00 to 25.00	23.00 to 25.00	22.00 to 25.00
" extra.....	15.00 to 20.00	15.00 to 20.00	12.00 to 20.00	12.50 to 15.00
" No. 1.....	8.00 to 12.00	6.00 to 8.00	6.00 to 12.00	8.00 to 10.00
" Lower grades.....	4.00 to 6.00	3.00 to 6.00	3.00 to 6.00	4.00 to 5.00
Bride & Maid—Fan, and Sp.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	5.00 to 6.00
" Ordinary.....	2.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Golden Gate, Fancy.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	5.00 to 6.00
" Ordinary.....	2.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Liberty, fancy.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	5.00 to 6.00
" Ordinary.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Richmond, Fancy.....	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	5.00 to 6.00
" Ordinary.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Kaiserin, Carnot, Chatenay, Fancy.....	6.00 to 8.00	4.00 to 6.00	6.00 to 7.00	6.00 to 7.00
" " " Ordinary.....	3.00 to 4.00	2.00 to 4.00	3.00 to 4.00	3.00 to 4.00
CARNATIONS				
Fancy.....	1.50 to 2.00	1.00 to 1.50	1.50 to 2.00	1.50 to 2.00
Ordinary.....	.75 to 1.00	.75 to 1.00	.50 to 1.00	.75 to 1.00
MISCELLANEOUS				
Cattleyas.....	..... to .....	..... to .....	..... to .....	..... to
Lilies.....	3.00 to 10.00	10.00 to 15.00	3.00 to 15.00	15.00 to 15.00
Gladioli.....	2.00 to 3.00	3.00 to 6.00	..... to	2.00 to 4.00
Asters.....	1.00 to 2.00	.75 to 1.00	1.00 to 2.00	.50 to 2.00
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Sweet Peas.....	.20 to .35	.25 to .35	.15 to .25	..... to
Mignonette.....	..... to .....	..... to	1.00 to 1.50	.10 to .50
Adiantum Cuneatum.....	..... to 1.00	..... to 1.00	.50 to 1.00	1.25 to 1.50
" Croweanum.....	..... to .....	..... to	1.00 to 1.50	..... to
Smilax.....	10.00 to 12.50	..... to 12.50	..... to 15.00	12.50 to 15.00
Asparagus Plumosus, strings.....	40.00 to 50.00	25.00 to 40.00	25.00 to 35.00	30.00 to 50.00
" " " & Sprengeri, bunches..... to 35.00	25.00 to 35.00	25.00 to 35.00	20.00 to 40.00

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Yokohama Nurseries, 31 Barclay St., N. Y. For page see List of Advertisers

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Julius Roehrs Co., Rutherford, N. J. For page see List of Advertisers.

BOX TREES.

Julius Roehrs Co., Rutherford, N. J. For page see List of Advertisers.

BULBS AND TUBERS.

Joseph Breck & Sons, 47-54 N. Market St., Boston. For page see List of Advertisers. J. M. Thorburn & Co., 33 Barclay St., New York. Lily Bulbs. For page see List of Advertisers. Yokohama Nurseries, 31 Barclay St., N. Y. Lily Bulbs. For page see List of Advertisers. A. T. Boddington, 342 W. 14th St., N. Y. For page see List of Advertisers. F. R. Pierson Co., Tarrytown-on-Hudson, N. Y. Fall Forcing Bulbs. For page see List of Advertisers.

CANE STAKES.

Wm. Elliott & Sons, New York. For page see List of Advertisers.

CARNATIONS.

E. H. Pye, Upper Nyack, N. Y. For page see List of Advertisers. Chicago Carnation Co., Joliet, Ill. Field Grown Plants. For page see List of Advertisers. Guttman & Weber, New York. Carnation Victory. For page see List of Advertisers. George E. Buxton, Nashua, N. H. Field Grown Plants. H. W. Vose, Hyde Park, Mass. Field Grown Plants. For page see List of Advertisers.

CARNATIONS—Continued.

August Gaedeke & Co., Nashua, N. H. Field Grown Plants. N. F. McCarthy & Co., 84 Hawley St., Boston. Carnation Flowers Wanted. For page see List of Advertisers. The H. Weber & Sons Co., Oakland, Md. Carnation Mabelle. For page see List of Advertisers. R. Engelman & Son, Pittsfield, Mass. Field Grown Carnations. For page see List of Advertisers.

CEMENT BENCHES.

W. F. Kastung, Buffalo, N. Y. For page see List of Advertisers.

CONIFERS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng. For page see List of Advertisers.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass. For page see List of Advertisers.

CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Huukel Co., Milwaukee, Wis. Welch Bros., 15 Province St., Boston. For page see List of Advertisers. Edwards Folding Box Co., Philadelphia. For page see List of Advertisers.

CYCAS STEMS.

J. M. Thorburn & Co., 33 Barclay St., N. Y. For page see List of Advertisers.

CYCLAMEN SEEDS.

R. & J. Farquhar & Co., 6 & 7 So. Market St., Boston. For page see List of Advertisers. C. Winterich, DeHaue, O. Giant Cyclamen Plants and Seeds. For page see List of Advertisers. O. V. Zangen, Hoboken, N. J. Giant Cyclamen Seeds. For page see List of Advertisers. Henry F. Michell Co., Philadelphia. For page see List of Advertisers.

DAHLIAS.

David Herbert & Son, Atco, N. J. For page see List of Advertisers.

DECORATIVE PLANTS.

A. Leuthy & Co., Roslindale, Mass. For page see List of Advertisers. Julius Roehrs, Rutherford, N. J. For page see List of Advertisers.

ELECTRIC CIRCULATOR.

Holly-Castle Co., 170 Summer St., Boston. For page see List of Advertisers.

FERNS.

A. Leuthy & Co., Roslindale, Mass. For page see List of Advertisers. H. B. Barrows & Son, Whitman, Mass. Nephrolepis Whitmanii. For page see List of Advertisers. S. S. Skidelsky, 824 N. 24th St., Philadelphia. Whitmanii Fern. For page see List of Advertisers. H. N. Eaton, So. Sudbury, Mass. Boston Ferns. For page see List of Advertisers.

FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2 Bowery New York.

FLORISTS' FERTILIZER.

A sample 100-lb bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum. In the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address J. W. Barwell, Blatchford's Calf Meal, Animal and Poultry Foods, Fertilizers, Karbo Dip, Seeds, etc., Wankegan, Ill. Established at Leicester, England, in 1800.

? Is Your Name In The Above List? If Not, Why Not? ?

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St.,
Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St.,
Boston, Mass.
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FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
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H. Bayerdorfer & Co., Philadelphia, Pa.
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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
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N. F. McCarthy & Co., 84 Hawley St.,
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Reed & Keller, 122 W. 25th St., New York
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J. B. Murdoch & Co., 545 Liberty St.,
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S. S. Pennock, Philadelphia.
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J. Stern & Co., 1928 Germantown Ave.,
Philadelphia.
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FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
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Fred C. Weber, 4325-28 Olive St.,
St. Louis, Mo.
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J. Brettmeyer's Sons, Miami & Gratiot
Aves., Detroit, Mich.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St.,
Washington, D. C.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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FLOWERING PLANTS.

Bandsch & Co., Union Hill, N. J.
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FLOWER POTS.

W. H. Ernest, 28th and M Sts.,
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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FRENCH FREESIAs.

Wm. Elliott & Sons,
201 Fulton St., New York.
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GALAX.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
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Michigan Cut Flower Co., Detroit.
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GERANIUMS.

A. M. Herr, Lancaster, Pa.
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GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin,
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GLASS.

Boston Plate & Window Glass Co., Boston.
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G. C. Watson, 9th & Market Sts., Phila.
Glass, French and American "White
Rose" brand, Stenzel Glass Co., 2 Hud-
son St., New York.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square,
New York.
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Hitchings & Co., 1170 Broadway,
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St.,
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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Chas. H. Manley, Premier Mfg. Works,
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Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dilger, Mgr.
Fancy Ferns.
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E. A. Beaven, Evergreen, Ala.
Fadeless Sheet Moss; Lyrata.
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HARDY PERENNIALS.

M. H. Walsh, Woods Hole, Mass.
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The Palisades Nurseries, Sparkill, N. Y.
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Hitchings & Co., 1170 Broadway,
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John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
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Gurney Heater Mfg. Co., 188-200 Franklin
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Kroeschell Bros., 35 Erie St., Chicago.
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HOT-BED SASH.

The A. T. Stearns Lumber Co., Neponset,
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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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INSECTICIDES.

Hammond's Paint & S. S. Works, Fishkill
N. Y.
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JAPANESE PLANTS.

Yokohama Nurseries, 31 Barclay St., N. Y.
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KENTIAS.

Godfrey Aschmann, 1012 Ontario St.,
Philadelphia.
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KOSTER'S BLUE SPRUCE.

J. H. Troy, New Rochelle, N. Y.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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Gude Bros. Co., 1214 F St.,
Washington, D. C.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone
connections.

LILIUM HARRISH.

F. R. Pierson Co., Tarrytown-on-Hudson,
N. Y.
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MANETTI STOCK.

H. Frank Darrow, 26 Barclay St.,
New York.
Importer.

MASTICA.

F. O. Pierce Co., 170 Fulton St., New
York.
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Joseph Breck & Sons, 47 5/8 N. Market St.,
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MOREHEAD RETURN TRAP.

Moorehead Mfg. Co., Detroit, Mich.
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MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
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NARCISSI.

Warnaar & Co., Sassenheim, Holland.
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NURSERY STOCK.

John Waterer & Sons, Ltd.,
American Nursery, Bagshot, England.
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ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists
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Julius Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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PALMS.

A. Lenthy & Co., Roslindale, Mass.
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PANSY SEED.

Johnson Seed Company, Philadelphia, Pa.
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H. F. Mitchell Co., 1018 Market St., Phila.
Pansy and Cyclamen Seed.
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Augustus Zringlebel, Needham, Mass.
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PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PEONIES.

Gilbert H. Wild, Sarcoxie, Mo.
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Warnaar & Co., Sassenheim, Holland.
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H. A. Dreer, Philadelphia.
Hedraeas Peonies.
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Elite collection of Best Peonies, com-
plete Pansy and Phlox Month's, 25 cents
each. C. S. Harrison's Select Nursery,
York, Neb.

POINSETTIAS.

S. N. Pentecost, Cleveland, O.
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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Primula Obs. Grandiflora, 4 in. pots. \$6 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

PUTTY.

Benj. Hammond, Fishkill on Hudson, N. Y.
Twemlow's Old English Glazing Putty.
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RHODODENDRONS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Rosea and Rambler.
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E. H. Pye, Upper Nyack, N. Y.
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American Beauties, 2-in., \$55.00; 3-in., \$80.00 1000. Cash. J. Henry Bartram, Lansdowne, Pa.

Roses. Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1/2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

1000 plants grafted Maids, 3 inch pots, fine stock, 2000 plants Richmond, own roots, 3 inch pots, very fine plants. Price \$10.00 per hundred, while they last. Cash with order. Robert Simpson, Clifton, N. J.

The beautiful new pink rose, MISS KATE MOULTON, is the queen of all pink roses. It's a winner and you should grow it. Price \$30.00 100; 500 \$125.00; 1000 \$200.00, 5000 and upwards, \$175.00 per 1000. Minneapolis Floral Co., Minneapolis, Minn.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass.
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Joseph Breck & Sons, 51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co., 33 Barclay St., New York.
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H. F. Michell Co., 1018 Market St., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass. Grass Seed Mixture.
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A. T. Boddington, 342 W. 14th St., N. Y.
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James Vick's Sons, Rochester, N. Y.
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W. W. Rawson & Co., 5 Union St., Boston.
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Conrad Appel, Darmstadt, Germany, Es-ab. 1783. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O.
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SIEVES AND SCREENS.

Hub Wire Works, 13 Devonshire St., Boston.
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SMILAX.

J. C. Schmidt Co., Bristol, Pa.
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E. A. Beaven, Evergreen, Ala. Southern Smilax.
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SMILAX PLANTS.

R. Kilbourn, Clinton, N. Y.
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SPHAGNUM MOSS.

C. W. Brownell & Co., Walden, N. Y.
Peat, Moss and Silver Sand.
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Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIRAEA.

Warnaar & Co., Sassenheim, Holland.
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STEAM TRAP.

E. Hippard, Youngstown, O.
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STEVIAS.

Stevia serrata, true, winter blooming, strong bushy, ready to shift, 3 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000. Asparagna Sprengeri, 2 inch, very strong, \$2.50 per 100; \$20.00 per 1000. Dean Ferris, Peekskill, N. Y.

VEGETABLE PLANTS.

Plainfield Nursery, Plainfield, Ind.
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VENTILATING APPARATUS.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
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Weathered Co., 46 and 48 Marlon St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.
J. C. Montger Co., 421 Hawthorne Ave., Chicago.

VIOLETS.

H. R. Carlton, W. Houghby, O.
Violet, Gov. Herrick.
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J. C. Schmidt Co., Bristol, Pa.
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Malcolm Orr, N. Saugus, Mass.
Violets, Lady Campbell.
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R. Engelman & Son, Pittsfield, Mass.
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WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue. Holton & Hunkle Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

N. F. McCarthy & Co., 84 Hawley St., Boston.
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George A. Sutherland Co., 34 Hawley St., Boston.
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Welch Bros., 15 Province St., Boston.
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Buffalo.

Wm. F. Kastling, 383-87 Ellicott St., Buffalo, N. Y.
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Chicago.

J. A. Budlong, 37 Randolph St., Chicago.
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Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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Detroit.

Michigan Cut Flower Exchange, 38 & 40 Miami Av. Wm. Dilger, mgr.
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WHOLESALE FLORISTS—Continued.
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Wm. Stuart Allen Co., 53 W. 28th St., New York.
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J. S. Fenrich, 110 W. 28th St., New York.
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Ford Bros., 48 West 28th St., New York.
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Alex. J. Guttman, 43 West 28th St.
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E. C. Horan, 55 West 28th St., New York.
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Phillip F. Kessler, 55 W. 26th St., New York.
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Julius Lang, 53 West 30th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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Frank Millang, 55-57 W. 26th St., New York.
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A. Moltz, 55-57 W. 26th St., New York.
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John I. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Traendly & Schenck, 44 W. 28th St., New York.
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Hicks & Crawbuck, Inc., 76 and 78 Court St., Brooklyn, N. Y.
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Philadelphia.

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
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S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
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Edward Reid, 1526 Ranstead St., Philadelphia, Pa.
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Pittsburg.

J. R. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
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New Offers in This Issue.**BEGONIAS GLORIE DE LORRAINE, TURNFORD HALL.**

J. A. Peterson, Cincinnati, O.
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CRIMSON RAMBLER ROSES.

Palisades Nurseries, Sparkill, N. Y.
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ELECTRIC CIRCULATOR.

Holly-Castle Co., Boston.
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ENGLISH PRIZE GIANT CYCLAMEN

Johnson Seed Co., Philadelphia.
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GLASS.

Standard Plate Glass Co., Boston.
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REMOVAL NOTICE.

Welch Bros., 226 Devonshire St., Boston.
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SURPLUS STOCK PEONIES.

Cottage Gardens Co., Queens, N. Y.
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PRIVATE GARDENERS

WE wish to announce that we have established a department for securing positions for such that require them. Our services are absolutely free. We also wish to establish a complete up to date directory of those who are in employment. In order to accomplish this successfully, we require the assistance of every reader of this paper. If you will kindly send us your name linked with that of your employer, also of those whom you know, we would consider it a great favor.

Please Address **W. W. RAWSON & Co., 5 Union St., BOSTON, MASS.**

HUB WIRE WORKS

13 Devonshire Street

SIEVES AND SCREENS

FOR Loam, Gravel and Ashes, **25c. to \$5.50**

Garden Arches and Trellises to Order



STANDARD PLATE GLASS CO.

Manufacturers, Importers and Jobbers

AMERICAN AND FRENCH GREENHOUSE GLASS

26-30 Sudbury Street
61-63 Portland Street

BOSTON, MASS.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR SALE—Five greenhouses containing 5,000 feet of glass, hot water heat, Town water. One acre of land. 10 minutes' walk from depot; 1 minute from electric. Near churches, stores and schools. For particulars write A. F. Belcher, Foxboro, Mass.

SITUATION WANTED—By gardener and florist; German; married; age 38. Experienced in every branch of horticulture, also orchids. P. Wenzel, 29 N. Peach St., Philadelphia, Pa.

SITUATION WANTED—As private gardener on place where there is a range of greenhouses. Best of references. Over 7 years in last place. Expert rose grower. Married. R. Miller, rose grower, East Brookfield, Mass.

WANTED—Boy about 16 or 18 to do general work around greenhouses. Good wages and good chance to work into rose houses. R. Miller, rose grower, East Brookfield, Mass.

WANTED—Florist and gardener, with experience in growing choice pot-plants. Give experience, copy of references, age, etc. Wages, \$60.00 per month. Address 67, care HORTICULTURE, 1 Hamilton place, Boston.

Holds Glass Firmly
See the Point **PEERLESS**
FULL SIZE N° 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.

GREENHOUSES BUILDING AND PROJECTED.

S. Rumford, Me.—E. B. Davis.

INCORPORATED.

The Peacock Dahlia Farm Company have filed articles of incorporation in Camden County, N. J. Capital of \$35,000 is reported.

The heating system in the U. S. Propagation Gardens, Washington, D. C., is being changed, and the houses will be heated by one No. 11 Kroschell boiler.

Please discontinue our carnation ad. All sold out. We are certainly very much pleased with the quick returns and reasonable rates of HORTICULTURE.

AUGUST GAEDEKE & CO.
Nashua, N. H.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

MASTICA

For Glazing Greenhouses

Manufactured only by
F. O. PIERCE COMPANY

170 Fulton Street, New York

Agencies in all the Principal Cities of the United States and Canada

WRITE FOR CIRCULAR

JOSEPH BRECK & SONS

BOSTON, MASS.

DISTRIBUTORS FOR NEW ENGLAND.

Fine Silver Cups and Trophies

For Exhibition Awards, Sporting Events, etc.

FINEST ASSORTMENT IN THE COUNTRY FROM THE BEST MANUFACTURERS AND AT LOWEST PRICES.

THORNTON BROS.

LAWRENCE, MASS.

PATENTS

Trademarks and Copyrights

Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

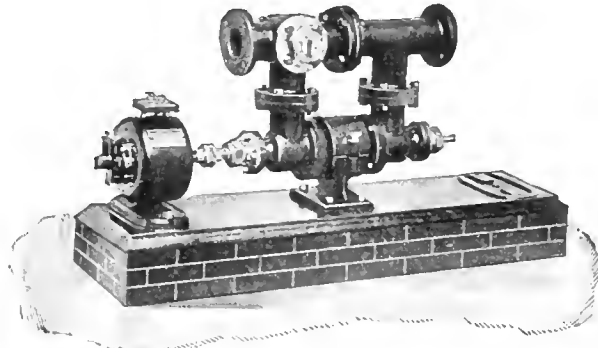
Price per crate	Price per crate	
1500 2 in. pots in crate \$4.88	170 7 in. pots in crate \$4.20	
1500 3 1/2 " " " 5.25	60 5 " " " 1.00	
1500 3 1/2 " " " 6.00	HAND MADE	
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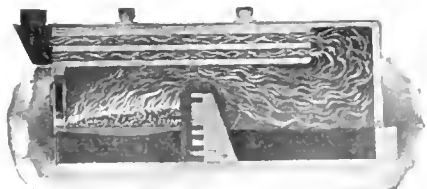
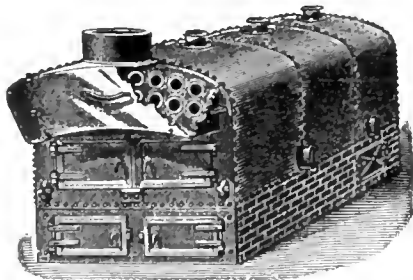
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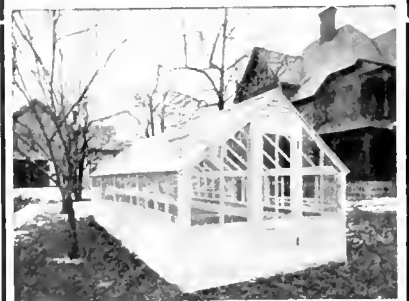
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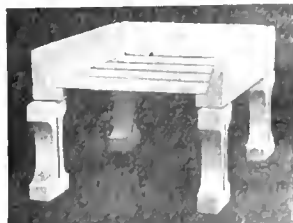
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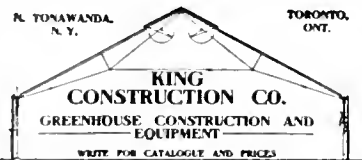
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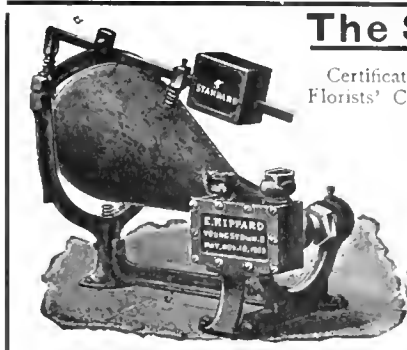
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HORTICULTURE

Vol. IV.

SEPTEMBER 8, 1906

No. 10



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"What did you say?" "Where can I go to see a good illustration of rockery and alpine gardening?" My reply was, "I really don't know"—which is a fact. Is it possible that nobody knows any thing about the beauties of these higher-up plants and their very simple requirements? Surely there are scores if not hundreds who are as well-acquainted with them as I am, so I am going to make a plea for rockery gardens generally and alpine plants in particular. There should be a better word than "alpine." On a table rock, only last year, I saw overhanging the Mississippi river, fifty feet above the water, a group of the slender hare bells with more than five hundred open flowers. They surely were not alpinists and there are very many beautiful dwarf native plants which belong to elevated surfaces rather than the level ground, yet they cannot be classed as alpine plants. The list given below contains some of these.

MATERIAL REQUIRED

The necessary material to make a rockery to properly grow plants on is rich sandy soil, and this must be in sufficient quantities to insure a mean depth of not less than eighteen inches in any part of the structure. The fallacious idea that rock plants do not require anything but poor soil to grow in and very little of that is so common that it is not at all surprising to see—as one does occasionally—a few scarecrow-like plants stuck between a few stones on a so-called rockery. For some plants leaf mould—humus like decayed manure—heavy clayey loam, very old disintegrated mortar, and very coarse sand are desirable; for certain plants a mixture of all these may be advantageously used.

The most satisfactory stones to use are sand stone, lime stone, tufa, some granite boulders, soft and porous bricks, new or old; the least desirable of all are furnace clinkers, except for filling deep places. Sufficient quantities of all the necessary kinds of material should be obtained and conveniently placed, so that the work may be quickly done.

WHERE IS THE BEST PLACE?

Where to build the rockery depends upon the space of ground available for the purpose and the size desired. A sunny, sheltered position is a desideratum. Overhanging trees must be avoided. The shape will be determined by the immediate surroundings. The center or foreground of a lawn are not desirable positions. The actual base line of the rockery should be nearly level and if somewhat depressed so much the better.



Never have the base line on a hill where the water will wash and run away from it. The surfaces of all plateaus and bays should be finished level, so also should the steps or treads of the pathways; in fact it should be borne in mind to construct the work so that the water will run into the bulk of the soil at the back, instead of running over the outsides. This caring for surface levels is very important. Where more than one or two tiers are made they should not be more than four feet wide at the broadest point. These tiers should be irregular in shape and yet, withal, there must be some tentative system in the whole work. Make the pathway wide, not less than two feet in the narrowest part, and the treads from four to eight inches high and no higher. The breadth of steps may vary considerably—none less than a foot wide. The interstices between the stones are to be filled in with quarter-inch gravel or limestone. The bays, plateaus and pockets are to be variable in size and shape. The rims to hold the water must be level to a certain height where the stones do not touch or are distant apart so that when the planting is completed the surface of the soil in the small bays will be an inch and a half below the level of the rims, and 2 to 2 1/2 inches in the larger ones for holding water. The water should percolate through the soil and not run off it. Long and thin stones or slate should be set perpendicularly in the soil so that at least a few inches appear above the surface and which may form partitions between the colonies, or they may form the face of the next group above; let these stones be entire if possible. Keep the different kinds of stone together as much as possible, except perhaps that some particular different specimens may be placed on conspicuous corners or central elevations. Bear in mind that the rock work is not the objective feature, but primarily it is of the greatest importance and necessity and must be so considered. Repetitions

of structural form should be avoided as far as possible. All stones are to be washed and pounded hard to prevent any graving water from the bulk.

PLANTING TIME AND PLANTING.

Preferably the best time for planting is in spring, as soon as the danger of frost is past and the earth begins to get warm. Planting may be done, however, at any time when the plants and their places are ready for them. When it is necessary to revise the planting after a season's growth, September is the best month; this will permit the plants to get established and well rooted before winter. Too much care cannot be given to making all plants very firm in their places and to be careful not to plant too deep, and all plants should be thoroughly soaked with water to complete the work properly. The observant planter will know whether to use heavy or light, or very sandy soil, according to the strength and general growth of the plants as these will appear when they are developed.

I strongly advise the planting of the delicate growing and also the tender kinds of plants in wire baskets, made either of galvanized wire or real copper wire. These baskets to be comparatively small, the meshes of the smallest not less than an inch in diameter, and those in the larger from 1 1-2 to 3 or more inches. These baskets can be made in any shape to fit the places they are to occupy; any handy man with a pair of pliers can make them. When in the fall the tender and the frail plants have to be protected the value of these baskets will be realized; some of the very small plants, though they be impervious to cold, are more easily taken care of in temporary quarters, whence they can be turned out again in the spring unscathed.

Caring for a rockery means no more and no less than does the care of any other branch of gardening where it is successfully carried out. A don't care treatment will bring about the same results as it does in a potato patch or cornfield; good care always repays. After the planting is carefully done then comes watering. Two, or at most three thorough soakings a week is a great deal better than a mere sprinkling every day, and it cannot be too strongly impressed on those who do the work. When the plants are growing rapidly, liquid manure should be given once a week, or nitrate of soda, or guano, or ammonia in solution—in fact any thing that will develop and strengthen the plants. Rockery plants thrive on good living equally as well as chrysanthemums; a no starvation sign should be in every garden. Weeds must be kept down; strong growing plants must be kept from crowding the weaker ones; delicate ones may need a little petting and tall ones staking, and insects have to be fought, which in these days is an easy matter.

WHAT TO PLANT.

The number of plants suitable for rockery planting is astonishing; I mean such plants as really are more effective in elevated positions than on the ground level.

A total of over one hundred and fifty genera, embracing nearly five hundred species, exclusive of bulbous plants, of which there is a score of species and not including numberless varieties, or annuals, may very easily be collected. No form of gardening is capable of presenting in comparatively small spaces as much variety in forms or colors.

In making collections, however small, there are some genera which cannot be dispensed with, such as achillea, alyssum, anemone, aster, armeria, aquilegia, aubretia, campanula, delphinium, dianthus, geranium, geum, lychnis, malva, myosotis, phlox, ranunculus, saxifraga, silene, sedum, sempervivum, viola, etc. Of these there are from eight to twenty or more species each. It is desirable to group as many of the species in close proximity when space will permit. Of the following, one or more plants of each will be almost indispensable: Actæa, adonis, arabis, arbutus, asarum, Asclepias tuberosa, asperula, convallaria, dicentra, dodecatheon, draba, gypsophila, Daphne cneorum, heuchera, heustonina, leontodon, Lobelia cardinalis, mertensia, mitchella, Iceland poppies, saponaria, sanguinaria, statice, trillium, trolius, uvularia, wahlenbergia, wulfenia.

No rockwork is complete without a selection of bulbs, the majority of which should be grown on the lower tables—such as aconite, Atamasco lily, chionodoxa, colchicum, crocus (several species), hyacinthus (several species), iris, lilies (many species), crown imperial, cyclamen, dogtooth violet, gladiolus species, narcissus (species and varieties), ornithogalum, scilla, snowdrop and tulips (species).

PROPAGATION AND PROTECTION.

Propagation is by the general methods as in other classes of plants: seed when convenient and best, otherwise by cuttings, layers or divisions. For protection it is desirable after Thanksgiving or a little before to cover up either with dry leaves, slender twigs of deciduous trees, or evergreen branches, or these may be used jointly. The covering must not be too heavy; if it is placed on thick enough to well secure shade from the sun's rays it is best and sufficient. Don't use green manure. Some few specimens may be wrapped in clean straw, but beware of mice. All the tender plants are best cold in a cold greenhouse or in a dry, deep, cold frame away from the sun where freezing and thawing cannot occur, or in a dry, light cellar where potatoes are readily kept in good condition. Pack close together tightly in soil and keep rather dry and plant out in the spring when the proper time comes.

The few notes here given in the interest of rockeries and alpine gardening is but a tithe of what could be said, and to which they deservedly are entitled.

John Thorpe

"Burning" of Conifers and Evergreens

The burning or drying of leaves commonly seen on conifers and other evergreens in spring is the result of winter or spring injury. Trees affected in this manner show the burning generally on one side, which coincides with the direction of some prevailing wind or storm. This is a sun scorch, similar to that prevailing on other trees, and occurs at a time when the ground is frozen and drying winds prevail. This is usually brought about by a sudden rise of temperature in the early spring when the plants are in frozen ground, at which time transpiration is active. Under these conditions root absorption is limited, whether the soil is moist or dry, and burning results.

An arbor vitæ hedge, which has been under our observation for some years, located on high ground with a severe exposure, becomes burned more or less every year. Frequently the burning is on the southeast side and occasionally on the southwest, but more often on the northwest, which is the direction of the prevailing winds.

There is a considerable amount of burning to conifers and rhododendrons in this State, and not infrequently this is so bad that the specimens are ruined. Much of this injury occurred during the winter of 1904-5, on evergreens located on private estates and in nurseries, and included various species of abies, buxus, chamaecyparis, juniperus, picea, pseudotsuga, taxus, thuya, retinospora and tsuga.

Our native conifers are seldom injured in this manner except when transplanted in some uncongenial place, or where the environment is more or less modified. Swamp cedar burns frequently when taken from the swamp and grown in ordinary soil, and the arbor vitæ, sparingly found as a native in this State, frequently burns when planted on high or more or less dry land with severe exposure. This holds good also for hemlocks, and to a certain extent for pines and junipers.

One of the conditions which induce burning is heavy mulching. When plants are heavily mulched during the spring, the frost is retained in the ground for a longer period than is good for the plants. A pile of chestnut burrs four inches high and two feet in diameter when left on a lawn prevented the frost from coming out from the ground for three weeks longer than where there were no leaves, and the frost would undoubtedly remain longer if the leaves had not been removed. No doubt much of the sun scorch on rhododendrons and conifers could be obviated if the mulching were raked away from the plants during the early spring, so as to allow the frost to come out of the ground.

The dry winds of spring cause considerable damage to trees, especially to newly transplanted hemlocks, etc. There are situations where it is almost impossible to

prevent such damage. A silver maple, *Acer glabrum*, in my yard, is a fine specimen, and is about twenty feet tall. It is a tree of the northwest coast of the State, and is very bright, sunshiny in color. It was blown at the base of the trunk by a severe wind blowing at the rate of over 70 miles an hour. The occurrence in this case is unprecedented and formed a good illustration of the effects of severe winds on one side of the tree. Some maples are scorched badly every year for some unknown reason, although such might occur from some peculiarity in the inherent absorptive capacity of the roots, or even from some peculiarity in the constituents of the soil where such trees are growing.

G. E. Stone

Andover, Mass.

Growth of Cambium Tissue

It is the general opinion that the cambium tissue in trees starts to grow in the early spring, when the sap is running, and continues until the fall of the leaves in autumn. It is only vaguely mentioned in many books on forestry and similar subjects.

The late Prof. Thomas Meehan had an idea that the actual growth of this tissue was confined to a certain period, and desiring actual data had the writer experiment one season.

A silver maple, two and one-half feet in diameter, was selected and a wire placed around the trunk, after having removed all the loose bark to prevent unnatural swelling by rains. The wire was tightly fastened in such a manner that the least swelling would cause it to feel out, and in this way a record could be taken.

Though placed around in early May, no swelling occurred until the 28th, when a slight change was noticeable. In the course of a few days it had moved a quarter of an inch. This continued increasing a little until about the middle of June. During the rest of June it did increase, but continued to make a regular swelling all the time.

On July 6th the wire recorded a fraction over an inch and three-quarters. This growth had all occurred during about five to six weeks. From July 6th until the end of the season no further increase occurred.

This record, though proof in this particular case may differ in other varieties and the time may also not correspond in other sections. It proves one fact, however, and that is that only at certain periods does the cambium tissue swell.

Murray Chandler

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone Oxford 292

WM. J. STEWART, Editor and Manager.

The season of awakening

September is with us, schools are opening, chilly nights with their concomitant of home-coming vacationists are due and the activities of social life will soon be transplanted from seaside and mountain to the city whirl. There is no time to be wasted now by the florist, be he grower or dealer. If he is ambitious for a successful season he must get in readiness to greet returning customers and set the bait for new recruits, with his domain well-swept and garnished with everything in the way of choice goods and attractive accessories to induce an early resumption of flower buying. Those who went to Dayton have a pretty good idea of what the season offers and enterprise demands.

Activity on wise lines

The visitor to the Dayton convention must have been deeply impressed with the immense variety and great beauty of the new importations in baskets, vases and other artistic ware adapted for florists' use which our hustling supply dealers have brought from abroad this season. Much of this stock has been personally selected by gentlemen who by reason of long association have learned to read in advance the needs of the flower people and it may be truly said of their selections for this year that it far exceeds in richness and variety anything offered heretofore. If you didn't see the Dayton display don't fail to get into communication with some of the dealers who were represented there and whose offers may be found from week to week in the advertising pages of HORTICULTURE. You cannot afford to overlook this.

Extending the business

The picture which forms our frontispiece this week is, perhaps, not entirely new to our readers, being one of the views depicting the manner of adornment of the factory buildings of the N. C. R. at Dayton. Nevertheless the subject it illustrates is one which will bear frequent and incessant pressure upon the attention of every florist in the land, of whom there is not one, be his community large or small, who has not within his limits some institution, factory, or other building which would be a good subject for such embellishment as our frontispiece so well exemplifies or whose management would not be open to suggestions along these lines. Once adopted by one concern the innovation would soon find imitators and, as is the case in Dayton, the influence of the good example would soon be apparent on all sides.

Another promising line

The time is now here when winter greenery becomes a seasonable topic. The window boxes and balcony receptacles that have done duty for nasturtiums, geraniums, and other summer material may be made equally effective for the winter season by the use of little conifers, hollies, ivy and similar evergreen material and the furnishing and planting of this class of stock should prove as remunerative in its way as the former. If our local florists would all make it a point to devote a small outdoor space to the growing of the little, shapely junipers, arbor-vitae and retinosporas which are so acceptable in mitigating the desolate aspect of midwinter they would find little trouble in making an opening for a regular business in such goods. They can be produced at small cost and require only shed protection to be available for use at any time they are needed.

Marvellous results possible

The persistent exploitation of this idea of beautifying our home and work room surroundings will invariably pay and it belongs distinctly to the commercial horticulturist to make the initial effort. We are considering the question, not from any altruistic standpoint, but solely in its selfish, practical aspects as a business proposition and as appealing simply to the commercial instincts of our readers. Compute if you can what the result would be if, in every town, some leading institution could be induced to adopt something like the N. C. R. flower plan for the welfare of their employes and the public. It is not difficult to see that the business of the nurseryman and the florist would be at once increased many fold in every instance and would continue to multiply until the aggregate of direct income therefrom to the horticultural industries would be something stupendous. This is no dream.

WHOLESOME CHESTNUTS.

From indications it would seem that those having good healthy violet plants and are able to keep them so will have profitable goods on hand for the coming winter.

There is no need of endeavoring to get large balls of earth to adhere to field-grown carnations when lifting them to plant in the benches, because they will get checked but very slightly, and because the soil provided for the plant in the benches is usually (at least it ought to be) more nutritious than that of the field from where they were lifted.

The growing of Boston ferns and kindred varieties planted in benches, may produce larger plants, but I doubt very much if after being potted they appear as symmetrical as those that were grown in pots right from the start. I also doubt just as much if the ones lifted out of benches are as serviceable to purchasers as the others, and still again I doubt if there is much gained except in the way of rapidity of multiplication by following the bench planting system to the entire exclusion of the other.

Those who are contemplating moving small and medium size deciduous trees this fall or next spring should now cut around the roots of these just as far away from the trunk as the length required for the roots to be when moved. This will be found very beneficial, because there will be time then for the wounds to heal. New growth of roots will spring from the ends cut. In cutting use a sharp spade for small trees; very little digging will be required, simply thrusting the spade downwards along the line indicated.

The experience of many with hydrangeas after last winter's damage ought to set them and others to thinking about the cause or causes of the loss of so many plants, and after satisfying themselves as to these, then to set to work to prepare if possible to avoid a recurrence of the trouble. It will be remembered that last winter was not a severe one as winters go; on the contrary it was unusually mild in most parts of the northern States; nevertheless hydrangeas suffered to an unusual extent. It will also be remembered that the late summer and fall were unusually wet, causing the wood of hydrangeas to be very soft and unmaturing, in which state it was when an early and somewhat severe frost set in early in November. Then there was a rush to permanently cover up hydrangeas, with the result that this soft, unripened wood was covered with soil and, the winter's rains making the soil very wet the wood rotted; it was not killed by the frost. It might have been better had the first covering been only temporary, and been removed at short intervals and the wood allowed to ripen before the final covering.

Herbaceous perennials have many good points to commend them to the private gardener and the commercial grower; neither the one nor the other can afford to be without them and expect to keep pace with the times. Perennials in general are not difficult

to grow. For quick effect and interest it may be advisable to purchase plants in the fall, but if the seeds of many kinds of perennials are sown now good flowering plants can be had for next season. There is no time to spare, however, if such a result is desired. Obtain the seeds as soon as possible, then sow them either in flats, to be placed later in frames which should be lightly shaded until the seedlings appear over ground, or sow the seeds right in the frames. In either case whenever the little plants are fit to handle, transplant them into other flats or into another section of a frame. One reason why I prefer flats is that in spring when planting time comes the plants can be lifted without disturbing the roots so much, because the trowel may be pushed under the roots, all of which will, with care, come away with the plants. The plants should be wintered in cold frames and protected from severe frosts, but air should be admitted freely whenever the weather admits. By the time the frames covering the seedling perennials are required for other purposes, if they were transplanted into flats, these can be placed out doors in a sheltered, southerly exposed location until it will be time to plant them in the open ground.

ERADICATING FALL GRASS.

The plan most successfully practiced in the neighborhood of Philadelphia is to stop mowing the lawn early in July and allow the grass to develop. Before the plant ripens seed put it to the scythe and rake off. Early in September sow a fairly thick seeding of lawn grass on the surface. Most of this will sprout where needed and will have the start of the fall grass next spring.

I do not think that much of the fall grass comes with the manure. It is a native and grows everywhere and its seeds are almost always present, waiting for a chance. But being an annual, as Mr. Hatfield says, the plan is to get rid of the surface crop before it seeds and the roots will die out leaving room for the September seeding to develop. G. C. W.

VACATION'S OVER.

Comes the saddened traveler home,
Come the tourists tramping,
Manners lagging, footsteps slow,
Heads and spirits drooping,
Office desk-stool, working chair,
Wait reluctant rover;
Work is piled up in arrears,
Vacation time is over.

Past the lazy nook with rod
By the grassy river;
Past the aimless, dreamy sail,
Drifting on forever;
Past the blissful lack of care
With its joys that hover;
Comes again the worry-time,
Vacation days are over.

Pitch into the work ahead,
No more dawdling hour;
Face the problems coming fast,
Grip them with new power;
From the worries of the day
Flee no more to cover;
You have had your time to play,
Vacation now is over.

—Baldwin A. Adams

AN ACKNOWLEDGEMENT.

Dayton, O., Aug. 1, 1906.
W. J. Stewart,
Sec'y, S. A. F.,
Boston, Mass.

Dear Sir: The handsome ring from the members of the S. A. F. presented me as certainly the most unexpected as well as highly appreciated token of gratitude that was ever given to me. I certainly give my most hearty thanks to one and all and cannot find words to express my feeling on being the recipient of such an elegant present. I am positive that I shall always keep a warm corner in my heart for the S. A. F., and as long as I live this ring will remind me of an everlasting debt I owe to your benevolent Society.

In case I may ever be of any assistance to you in the future, rely on me for I will always be willing to help the S. A. F.

Thanking you again and hoping to see you at the next convention, I am,

Yours sincerely,

JOHN E. FREUDENBERGER,
Landscape gardener, N. C. R. Co.,
Dayton, Ohio.

PERSONAL.

John Proctor has entered on his duties as gardener to I. T. Burden, Newport.

Visitors in Boston this week: Miss M. S. Newman, St. Louis; Paul Berkowitz, of H. Bayersdorfer & Co., Philadelphia.

Michael Adams now gardener for Mrs. Herman Oelrichs has secured the position of gardener to Mrs. De Lancey Kane at Newport.

On Tuesday, September 4, Jackson Dawson completed thirty-five years of service at the Arnold Arboretum and looks as though he might round out another thirty-five without much difficulty.

Alfred Bunvard of New York and Miss Idalian Hayes were married at the Marble Collegiate Church on Fifth Avenue on August 9 and have just returned from their honeymoon at Lake George.

OBITUARY.

Elizabeth, widow of the late James Cartwright, died at her home in Wellesley, Mass., on September 4, aged 83 years.

James Warburton, the oldest florist of Fall River, Mass., was found dead in his home on New Boston road on September 4. Death was caused by gas asphyxiation. Mr. Warburton disposed of his interest in the florist business to his son, C. Warburton, a few years ago.

Henry Graves, well-known from his connection with the New Jersey Floricultural Society, and his enthusiasm as the subject of orchids, of which he had a fine collection, died at his summer home in Kineo, Me., August 29. Mr. Graves was about 68 years of age and is survived by a wife, one daughter and three sons.

NEWS OF THE CLUBS AND SOCIETIES

NORTH SHORE (MASS.) HORTICULTURAL SOCIETY.

The North Shore Horticultural Society held its annual summer flower show at the grounds of the Essex County club on Wednesday and Thursday afternoon and evening and may be said to be the best all around show the society ever held.

For this display a mammoth tent was pitched on the lawn, which measured 55x145 feet and also a small tent 15x30 feet was used for storage. The large tent, though of much greater dimension than any formerly used, proved none too large for effective arrangement of the scores of beautiful exhibits. The scene was one of fairy-like beauty, especially in the evening, under the bright electric lights and while the throng moved about admiring the feast for the eyes. Lon's orchestra rendered a concert program.

While it is difficult to say which was the best display at the entire show, it is safe to say no collection merited so much admiration as the display of foliage and flowering plants by Mrs. Lester Leland (Mr. Wittelow, gardener). This was not for competition.

The five tables entered for general display, were all splendidly arranged and so nearly alike in general excellence that an expert's eye was required to render judgment. Of these Mrs. W. Scott Fitz. (Walter Allen, gardener), secured first prize, a silver medal. Second went to Mrs. G. E. Cabot (P. Corrigan, gardener), a bronze medal. The exhibit by Miss M. F. Bartlett (Bernard Reilly, gardener), was particularly good. Other displays were by Mrs. M. B. Mason (John Reilly, gardener) and Mrs. James Means (Wm. McKernan, gardener).

The society medal was won again by Mrs. H. L. Higginson (J. Scott, gardener). This medal is offered for the best display of flowers arranged for effect, filling one society table. Second prize went to Mrs. Leslie Leland (E. Wittelow, gardener). Robert A. Mitchell, P. R. Sanborn and Mrs. F. R. Tibbetts (Donald Mitchell, gardener), all had excellent tables.

A beautiful table of annuals was shown by Mrs. G. M. Lane (Herbert Shaw, gardener), which was awarded the Schelegel & Fottler company prize of \$35 in gold. In this competition was a table entered by the Misses Loring (Cornelius Murray, gardener), which was an all around good display, and a third table was entered by Mrs. C. H. Tweed (W. J. Griffin, gardener).

An interesting competition was that for the silver loving cup, offered by

Lord & Burnham for 20 plants arranged for effect. This was won by Mr. Robert C. Hooper, (Wm. Swan, gardener), who had a striking display, prominent among the rare plants being eight plants of *Oncidium varicosum* Rogersæ. This is to be won by the same party two years in succession to become its owner. Mrs. Hooper also took first for hardy herbaceous flowers and Miss A. G. Thayer, second (James Macgregor, gardener).

The most striking specimen plant displayed was a huge fern, *Cibotium Schiedeii*, from the G. N. Black greenhouse (A. Magnuson, gardener).

Henry A. Dreer, represented by John Hay, entered 5 tubs of aquatics, which received honorable mention. There were 10 varieties of *Nelumbium* and 30 varieties of *Nymphaea* of most magnificent colorings.

In addition to the regular prizes the following other special awards were made.

Farguhar Co., special, silver cup, vegetable collection, Mrs. W. B. Walker.

Schlegel & Fottler Co., sweet corn, \$5 in gold, F. M. Whitehouse.

Schlegel & Fottler Co., tomatoes, \$5 in gold, Arthur Jackson.

W. E. Doyie, silver and bronze medal, best table flowers, 1st, Mrs. W. Scott Fitz; 2d, Mrs. G. E. Cabot.

R. & J. Farguhar, special, 1st, C. E. Corting; 2d, F. M. Whitehouse.

Group of foliage plants, Mrs. Leslie Leland, certificate of merit.

Evergreens, J. Pierce, honorable mention.

Native trees and shrubs, Royce, A. Mitchell, honorable mention.

Flowers, Miss Loraine Washburn, honorable mention.

Roses and herbaceous flowers, Blue Hill Nurseries, honorable mention.

Dahlias, W. W. Rawson & Co., honorable mention.

Plants and flowers, North Shore ferneries, honorable mention.

Onions, J. Salter, cultural certificate. Exhibit garden seats, North Shore ferneries, honorable mention.

The judges were: John W. Duncan, assistant superintendent of the Boston park system; Robert Cameron of the Harvard Botanic gardens, Cambridge, and James Stuart of Brookline.

LADIES, TAKE NOTICE.

Every wife, daughter and sister of the members of the Society of American Florists and Ornamental Horticulturists, also lady members, will soon receive a letter, asking co-operation to form an auxiliary, for social and instructive advantages, from a lady member of the society.

NEWPORT HORTICULTURAL SOCIETY.

The fortnightly meeting of the Newport Horticultural Society was held Tuesday evening in Mercury Hall; President MacLellan occupied the chair. This was the first meeting since the exhibition consequently more than ordinary interest was attached to the proceedings. The secretary read his report of the show which after a short discussion was received. It showed that there is still money available for premiums for things that may be brought in from time to time at meetings. The society is endeavoring to encourage that kind of exhibiting.

The treasurer was authorized to pay all the premiums as shown by the secretary, also to have medals engraved and forwarded to the winners.

A discussion arose in regard to awarding a silver medal to a seedling dahlia, the question being whether any dahlia is worthy of a silver medal—the society's highest award. The consensus of opinion seemed to be that unless the new dahlia was better than anything previously introduced, it was not entitled to a silver medal.

FLORIST CLUB OF PHILADELPHIA.

Samuel S. Pennock will be the next president of the Florist Club. Although the election does not take place until October the nomination on the 1th inst. practically insures the election as there is no opposition. Fred Hahman gets another term as vice-president as does J. William Colflesh as treasurer and Edwin Lonsdale as secretary. Reports on the convention were made by William Graham and George C. Watson. An interesting episode was the presentation by John Westcott of a handsome portrait of H. B. Beatty to the club. Mr. Beatty has been an active member of the Club for many years and stands by the old organization with rare loyalty and fidelity. The October meeting will be devoted to a general discussion on "How to Make the Convention a Success." Every member is expected to come full of ideas. Robert Kift, David Rust and Jno. T. Sibson were appointed a committee to audit the books. The salary of the secretary was ordered to be doubled in view of the large increase in membership since last year.

COLUMBUS FLORISTS' CLUB.

Our members are a unit in praise of the splendid outing we all so much enjoyed at Dayton. Now the convention is over, we are once more absorbed in our own pressing club matters. The question of a chrysanthemum show, on a much more elaborate plan than last year, is now entirely engrossing the attention of our members. A committee consisting of M. B. Faxon, chairman, Messrs. Woodrow, McKeller, Stephens, and Knopf, has been appointed to investigate the matter and work out the details. Our club has already made many plans for the fall and winter, which we hope will add materially to our membership and usefulness.

MABELLE NEW PINK CARNATION

FOR 1907

COLOR—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most Pinks, the brightest sun does not injure the color. **SIZE**—3 to 4 inches in diameter when established. **ODOR**—Pleasing, but not strong. **STEMS**—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. **HABIT, etc.**—A very quick, active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. **PRODUCTIVENESS**—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. **Stock Limited. Delivery January 5th to 10th and later.**

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Bloodred, Carmine, Pink, Purewhite, White with Carmine Eye.

Each color separate. Tr. Pkt. \$1.00. 1000 seeds, \$6.00. An even mixture of the above 5 colors, Tr. Pkt. 75c.; 1000 seeds, \$5.00.

Silver Leaved New Hybrids

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CALIFORNIA NOTES.

Beet sugar vegetation is a major item in California industries, and what is very pleasing to growers is a development announced this week which will solve the problem of economic beet culture in this country. Professor W. W. Tracy of the Department of Agriculture has been here for some time looking after the experiments with beet seed on which the department has been working for years. As a result the announcement is just made that a one-germ seed has been developed that works wonders, and is spoken of as one of the most remarkable processes in plant development. The department scientists have ever undertaken to a successful finish. A beet seed in fact, they say, is not a seed, but a cluster of seeds in a small husk, and when planted each germ inside the husk starts a little plant, and it is necessary to pull out all but one. Abroad, where labor is cheap, this is done by hand; in this country nobody will do such work. Farmers want to cultivate their farms from a spring-seated cultivator drawn by four horses. So the beet sugar industry has grown slowly because there was nobody to pull the superfluous beets. Secretary Wilson set his scientists at work to develop a beet seed with but a single germ in it. This, Professor Tracy says, they have now done; that last year's seeds contained 33.13 per cent. of one-germ seeds; that the experiments began four years ago, and that in three years more of evolution they will have a seed with uniformly a single germ. Then it can be planted by machinery at proper intervals, no pulling of the extra plants will be necessary, cultivating and digging can be done by machinery, and American beets will easily supply all the country's sugar.

The vegetation scientists over the bay at the University of California tell me that a communication has been received there by friends of Dr. Hugo de Vries, the eminent botanist of the University of Amsterdam, who recently gave a course of lectures at the summer school of the California University, that he is preparing an article for publication in defense of Luther Burbank. Dr. de Vries, the trade scientists of California say, is one of the most noted botanical authorities of the present day, and his defense of Burbank is expected to carry great weight.

The Dobbs Ferry, N. Y., Horticultural Association will hold their annual flower show on November 2 and 3. At the last meeting of the association a resolution was passed to instruct the Congressmen of the district to vote against the free seed distribution.

The home-grown narcissus bulbs, which were reported on at the Dayton convention as having given excellent results under forcing last winter, were grown and exhibited by Poat Bros., bulb growers, of Ettrick, Va.

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TRUE GRANDIFLORA, 13 to 15 Centimeters 1350 to case	\$1.00	\$ 8.00
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CHINESE SACRED LILIES, per Basket (30 Bulbs)	1.10	
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MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual exhibition, so called, of the Massachusetts Horticultural Society, which was held on Wednesday and Thursday of this week is a different affair from what it was a few years ago. The superb rivalries in the stove and greenhouse foliage and flowering plants classes, the fern and lycopod groups, are sadly missed by those who recall those triumphs of the old representative gardeners of Boston. On the other hand we had this year some vast groups of promiscuous plants sent in, not for prizes but simply out of esteem for the society and its time-honored show. The largest of these—and it is probably the largest single group ever displayed before the Massachusetts Horticultural Society—was from the Harvard Botanic Garden and Mr. Cameron scored a notable triumph for it was, by far, the most cleverly arranged group we have seen for many a year. Two enormous collections were also contributed by R. & J. Farquhar & Co., and Mrs. J. L. Gardner, and there were others of lesser but very creditable extent and quality. Another remarkable development in this annual exhibition was the display of dahlias. Excepting a number of hardy perennial groups that flanked the walls the entire lecture hall was occupied by the dahlias of which there must have been between four and five thousand blooms, in all colors of decorative, show, cactus, pompon, and single forms, making a scene of rare brilliancy, lacking only the introduction of a few large vases to break the flat monotony of the tables as is done with the peonies and the chrysanthemums when special shows of these flowers are made. In some of the dahlia classes there were twelve to fourteen entries.

Among the notable display outside of those above mentioned were three big tanks of nymphæas, nelumbiums, and other water plants, from H. A. Dreer; extensive collections of hardy border perennial flowers from the Blue Hill Nursery and the Bay State Nurseries, among the specialties in the former being *Liatris pycnostachya* *superba*, a cross made by Mr. Heurlin between *L. pycnostachya* x *L. elegans*, with enormous flower spikes several feet high, of the same bright color as *elegans*, and a seedling *Lathyrus latifolia* of dainty pink and white color almost identical with the tints of *Dendrobium Phalanopsis*. Other novelties were some extraordinary tuberous begonia blooms from James Garthley and a big vase of *Senecio clivorum* with its enormous foliage and orange yellow flowers, from the Boston Park Department.

The attendance was good. The rule closing the show at 6 p. m. was unfavorably commented upon by visitors generally and it was found advisable to informally extend the time till 8 p. m. There are many people who are unable to attend these exhibitions during the day, such as gardeners and others whose leisure hours are limited to the evening and it would surely be a great injustice to such to deprive them of the opportunity of inspecting these exhibitions. It is to be hoped that the trustees may give further consideration to this question and

reverse their view as to the closing hour even if it does cost a little more for the lighting.

We almost forgot to mention the fruit and vegetables. These were shown in unusually light quantity. Much admiration was bestowed on several baskets of luscious fruit of the Pan American ever-bearing strawberry shown by S. H. Warren.

RECENT FLOWER SHOWS.

El Paso County Horticultural Society, Colorado Springs, Colo., held its eighth annual show on August 22, 23, in five large tents. Sweet peas and dahlias took the lead in exhibits.

Village Improvement Society, N. Westport, Mass., August 22, 23. Dahlias were most prominent. Mrs. J. H. Jahn's exhibit of over 400 flowers and that of W. H. Richardson were notable.

THE CONVENTION: FROM THE RETAILER'S STANDPOINT.

(Read by William Graham Before the Florists' Club of Phila., Sept. 8th, 1906.)

When you asked me to report on the convention from a retailer's standpoint, I told you that I did not expect to attend the meetings, but was going out simply as a member of the bowling team, and therefore would not be in a position to make a report. I was not present at any one meeting except long enough to put in my vote for the officers.

However there is one thing that struck me very forcibly about the city of Dayton, not only as a retailer but as a lover of flowers and that was the almost general use of flowers and plants in the gardens and on the porches of the houses throughout the city, no matter how small or humble the place. It might be only one plant or vine or a window box, but almost invariably the same was arranged in the most effective and artistic manner—not a mixture or jumble as one generally sees.

This has been brought about as far as I could learn by the campaign of Horticultural education, waged by the National Cash Register Co. They certainly merit the thanks of all growers and retailers for the results shown in the city of Dayton. It shows us what can be done by systematic effort.

I would suggest that the Florists' Club of Philadelphia appoint a committee to take up this matter and if feasible start such a movement in this city. It would not only add to the beauty of the city, but would add dollars and cents to the income of every man in the business, as there is no question in my mind that the more we encourage the love of flowers among the mass of the people the better it will be for our business.

I am sorry that I can not report more fully, but as I did not have a chance to attend the meetings I could not intelligently do so.



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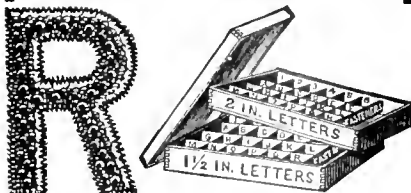
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“ Extra.....	30.00 to 35.00	10.00 to 12.50	15.00 to 18.00	8.00 to 12.00
“ No. 1.....	15.00 to 25.00	6.00 to 8.00	10.00 to 12.00	4.00 to 6.00
“ Lower grades.....	5.00 to 10.00	3.00 to 5.00	3.00 to 5.00	.50 to 2.00
Bride & 'Maid—Fan. & Sp.....	5.00 to 6.00	3.00 to 4.00	6.00 to 8.00	3.00 to 4.00
“ Ordinary.....	3.00 to 4.00	..... to 2.00	3.00 to 4.00	.50 to 2.00
Golden Gate, Fancy.....	5.00 to 6.00	3.00 to 4.00	4.00 to 8.00	3.00 to 4.00
“ Ordinary.....	3.00 to 4.00	..... to 2.00	3.00 to 4.00	.50 to 1.00
Liberty, Fancy.....	5.00 to 6.00	3.00 to 5.00	6.00 to 8.00	3.00 to 6.00
“ Ordinary.....	3.00 to 4.00	..... to 2.00	2.00 to 5.00	.50 to 2.00
Richmond, Fancy.....	5.00 to 6.00	3.00 to 5.00	6.00 to 8.00	3.00 to 5.00
“ Ordinary.....	3.00 to 4.00	..... to 2.00	2.00 to 5.00	.50 to 2.00
Kaiserin, Carnot, Chatenay, Fancy.....	5.00 to 6.00	5.00 to 6.00	5.00 to 8.00	3.00 to 6.00
“ “ Ordinary.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	.50 to 3.00
CARNATIONS				
Fancy.....	..... to 2.00	1.00 to 1.50	..... to 2.00	1.00 to 1.50
Ordinary.....	1.00 to 1.50	.50 to 1.00	.75 to 1.50	.75 to 1.00
MISCELLANEOUS				
Cattleyas.....	50.00 to 60.00	..... to	60.00 to 75.00	30.00 to 50.00
Lilies.....	10.00 to 12.00	..... to	12.50 to 15.00	5.00 to 8.00
Gladoli.....	3.00 to 5.00	1.00 to 1.50	1.00 to 3.00	1.00 to 3.00
Asters.....	.50 to 3.00	.50 to 5.00	.75 to 2.50	.20 to 1.25
Lily of the Valley.....	3.00 to 4.00	..... to 3.00	2.00 to 4.00	2.00 to 3.00
Sweet Peas.....	.50 to 1.00	.10 to .15	..... to .....	..... to
Mignonette.....	2.00 to 5.00	..... to .....	..... to	1.00 to 2.00
Adiantum Cuneatum.....	.75 to 1.00	1.00 to 1.25	..... to 1.00	.50 to 1.00
“ Croweanum.....	1.00 to 1.50	..... to .....	..... to 1.50	..... to 1.50
Smilax.....	10.00 to 15.00	..... to 12.50	12.00 to 15.00	12.00 to 16.00
Asparagus Plumosus, striggs.....	40.00 to 50.00	25.00 to 40.00	25.00 to 35.00 to 50.00
“ & Sprenger bunches	35.00 to 50.00	25.00 to 50.00	25.00 to 35.00	20.00 to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON The superfluity of asters of low degree which obstructed the market of late is now a reminiscence and an opportunity is afforded for the better grades, of which there are not too many, and the carnations, particularly the white sorts. Colored carnations are more plentiful and sell slowly as compared with the whites. The general market has been improved by the cooler weather and its effect is especially seen in the tea roses which, although still diminutive, are considerably better in quality than they were. There is a sharp call for good lily of the valley; more or less poor grades of this indispensable flower are now in evidence. There is a good supply of American Beauty roses in market with a very conservative demand. Sweet peas are finished. They have had an unusually disastrous season and have been an almost total failure with some growers.

BUFFALO A better report can be made this week on the market on account of the cool weather the past week. Roses and other flowers are coming in better condition and business has brightened up considerably. Better demand was had for roses, carnations, lily of the valley, etc., while asters and gladioli moved very freely. Some very choice stock in both lines is being had daily and is selling well. There is a good demand on speciosum and longiflorum lilies. Smilax, adiantum and other greens are in good supply; demand normal.

COLUMBUS The long spell of intense heat has at last broken, and the effect of bearable weather on trade is very manifest—it had been so terrifically hot so long, that craft and customers alike were getting worn out with it. There has been the past week very large quantities of asters and gladioli in the market. Roses and carnations are still of poor quality. Prices to customers have changed very little. Trade on the whole is very good for the season. The seedsmen are busy with their French and Bermuda bulbs which are daily arriving.

LOUISVILLE Business conditions the previous week averaged generally satisfactory. Carnations have not improved materially but roses and asters are of good quality and are in quantity sufficient to meet all calls. Lilies are

in fair supply. Other stock is plentiful.

NEWPORT There is a wonderful improvement noticeable in business during the past few days. The cottagers seem to have been for weeks storing energy for a grand and final effort, with the result that since the middle of last week visible signs of gayety were in evidence everywhere from the Mill Corner to Prices Neck. The florists, at least a number of them, are jubilant, and well they may be. They used up more roses and other choice flowers in the last five or six days than they have had use for in a month before that time. Some growers of Killarney rose must certainly think there is something doing in Newport at present. For fear of being thought to be given to exaggeration I refrain from estimating the number of Killarneys used by Messrs. Wadley & Smythe at the Belmont entertainment Saturday evening; suffice it to say that they were used in larger numbers than the oldest inhabitant can remember seeing any other variety used. This entertainment at Belcourt was a remarkable affair; the dining hall was, with the aid of greens and flowers, transformed into what some were persuaded by their friends to believe looked like the garden of the palace of Versailles. However that may be, Mr Smythe made it look very gorgeous indeed. The vines that grew gracefully on the green painted trellis had flowers of such varying colors and the assistance of such luxuriant foliage that even a palace was not too good for it. Some of the choicest orange trees from Julius Roehrs ornamented one end of the building, and they did their part in good shape, even if a few Florida oranges had to be fastened to them. There was a fountain in the centre of the room with two receptacles for plants; in one there were water lilies; in the other, where there was no water, anthuriums were growing. There was a large and beautiful centrepiece on each of the ten tables. These were made of roses and almandas, not mixed, each piece having but one variety. Along the walls flower beds were made, I suppose, to resemble those at the palace before mentioned. These beds were planted artistically by Mr. Roehrs, Jr.

NEW YORK Signs of returning life are apparent in and about the wholesale districts and a general freshening up of walls, ice boxes and cash drawers is in progress. The outlook for the season seems promising and no forebodings are heard. As to the

stock coming in it is not superlative either in quantity or quality yet a decided improvement is noted in roses and carnations. Of the latter some excellent flowers for the season are being received, Eucharist leading; although the stems are pretty short as yet, the flowers are good. Asters are in bad shape as a rule, the weather having been unfavorable; some are coming in of very high quality, appearances indicating that their growers had given them needed protection against exposure to the elements, and these bring good prices while the others are practically useless.

PHILADELPHIA Asters are still the feature of this market, being now in their prime, both as regards quantity and quality. The wet weather of the past week had a bad effect on the finish of the blooms and top-notch grades were insufficient for the brisk demand. Dahlias are now arriving in considerable volume and of very good quality although rather short-stemmed as yet. Roses are selling well, the demand being best on white; of which Kaiserin is still the leader. Beauties are going well and are improving in quality. At the end of the week the demand was so good that difficulty was experienced in filling orders. Liberty plentiful, but not high grade. No Richmond. Gladioli shortening up considerably. In orchids there are moderate quantities of cattleyas, phalaenopsis, and Dendrobium formosum which find ready takers at from 60 to 75 cents. Carnations more plentiful and slightly improved as to quality.

FADELESS MOSS.

Among the useful specialties shown at the Dayton exhibition nothing was inspected with more interest than E. A. Beaven's "Fadeless" sheet moss. The coloring of this moss is, of course, artificial, but so exact is the imitation of the natural moss shades that it has every appearance of having been freshly collected from the woods. The many uses to which this material can be put in decorative plant and flower work will at once suggest themselves to the initiated and we predict a phenomenal demand for the "Fadeless"

"THE BEST SATISFACTION."

Kindly discontinue our ad, now running in your paper with this week's issue as we are going out of business Oct. 1st next.

We wish to state however that the ad, we carried with you lately has given the best satisfaction we have ever carried with any paper.

Yours truly,
C. W. BROWNELL & CO.
Walden, N. Y.

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Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, NEW YORK
Tel. 299 Madison Sq. Open 6 A. M. to 5 P. M.

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FINE ROSES FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS
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THE WHOLESALE
FLORIST
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Wholesale Commission Florists
and Jobbers in Florist's Supplies
76 AND 78 COURT STREET
BROOKLYN, N. Y.

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All Choice Cut Flowers In Season
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Richmond Roses and Rich Flowers
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FOR GOOD PRICES
AND CASH RETURNS
send your flowers to
Phil. F. Kessler
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Telephone 2921 Madison Square.

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Sep. 1 1906	First Half of Week beginning Sep. 3 1906	Last Half of Week ending Sep. 1 1906	First Half of Week beginning Sep. 3 1906
Roses				
Am. Beauty, fan and sp.	20.00 to 25.00	15.00 to 20.00	1.00 to 2.00	1.00 to 1.50
" extra.	8.00 to 12.00	8.00 to 12.00	.50 to .75	.50 to .75
" No. 1.	4.00 to 6.00	4.00 to 6.00	25.00 to 50.00	25.00 to 50.00
" Lower grades.	1.00 to 2.00	1.00 to 2.00	4.00 to 6.00	4.00 to 6.00
Bride & 'Maid, fan and sp.	2.00 to 4.00	2.00 to 4.00	.50 to 1.00	.50 to 1.00
" Ordinary	.25 to 1.00	.25 to 1.00	.15 to 1.00	.15 to 1.00
Golden Gate, fancy.	3.00 to 4.00	3.00 to 4.00	1.00 to 3.00	1.00 to 3.00
" ordinary	.25 to 2.00	.25 to 2.00	.....	.....
Liberty, fancy	4.00 to 6.00	4.00 to 6.00	.....	.50
" ordinary	.25 to 2.00	.25 to 2.00	.25 to .50	.25 to .50
Richmond, fancy.	6.00 to 8.00	6.00 to 8.00	1.00 to 1.50	1.00 to 1.50
" ordinary	.25 to 2.00	.25 to 2.00	6.00 to 8.00	6.00 to 8.00
Kaiserin, Carnot, Chatenay, fancy.	1.00 to 6.00	1.00 to 6.00	10.00 to 25.00	10.00 to 25.00
" ordinary	.25 to 2.00	.25 to 2.00	15.00 to 35.00	15.00 to 35.00
Carnations, Fancy	1.00 to 2.00	1.00 to 1.50	.....	.....
Carnations, Ordinary	.50 to .75	.....	.....	.....
Cattleyas	25.00 to 50.00	.....	.....	.....
Lilies	4.00 to 6.00	.....	.....	.....
Gladioli	.50 to 1.00	.....	.....	.....
Asters	.15 to 1.00	.....	.....	.....
Lily of the Valley	1.00 to 3.00	.....	.....	.....
Sweet Peas, bunches	.....	.....	.....	.....
Mignonette	.....	.....	.....	.....
Adiantum Cuneatum	.25 to .50	.....	.....	.....
" Croweanum	1.00 to 1.50	.....	.....	.....
Smilax	6.00 to 8.00	.....	.....	.....
Asparagus Plumosus	10.00 to 25.00	.....	.....	.....
" & Sprengeri, bunches	15.00 to 35.00	.....	.....	.....

ORCHIDS AT ALL SEASONS
WM. STUART ALLEN CO.
Commission Merchants in Cut Flowers
53 WEST 28TH STREET, NEW YORK
Telephone 356 Madison Square

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WHOLESALE FLORISTS
Furnish best stock at fair prices all the year round Send for quotations on fall orders
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A Reliable Place to Consign to or order from
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**EXTRA FINE
NEW CROP**

FANCY FERNS

\$1.00 per 1000

GALAX \$1.25 per 1000

Discount on Larger Orders

Let us have your standing order for Fern. Will make price right all through season.

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Michigan Cut Flower Exchange

WM. DILGER
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Send for Our Weekly Price List on Cut Flowers.

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Best Flowers
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Headquarters in Western New York
FOR
ROSES, CARNATIONS
And all kinds of Seasonable Flowers

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Ready to talk business for the coming
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\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

Fresh Northern, \$1.00 per 1000.

LYRATA, the best substitute for Smilax, \$7.00 per case.

Headquarters for all **FLORISTS' SUPPLIES**. Wire Designs,
Cut Wire, Letters, Immortelles, Cycas Leaves, Wheat
Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

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122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Glassware Decorative Greens and Florists' Requisites.

WHOLESALE FLOWER MARKETS. — PER 100.
TO DEALERS ONLY.

	CINCINNATI September 4	DETROIT September 3	BUFFALO September 4	PITTSBURG September 3
ROSES				
Am. Beauty, fan and sp.	20.00 to 25.00	20.00 to 30.00	20.00 to 25.00	20.00 to 25.00
" extra	15.00 to 20.00	15.00 to 20.00	12.00 to 20.00	12.00 to 15.00
" No. 1	8.00 to 12.00	6.00 to 8.00	6.00 to 12.00	8.00 to 10.00
" Lower grades	4.00 to 6.00	3.00 to 6.00	3.00 to 6.00	4.00 to 5.00
Bride & 'Maid—Fan, and Sp.	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	4.00 to 6.00
" Ordinary	2.00 to 4.00	3.00 to 4.00	4.00 to 5.00	..... to
Golden Gate, Fancy	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	2.00 to 6.00
" Ordinary	2.00 to 4.00	3.00 to 4.00	3.00 to 5.00	..... to
Liberty, fancy	5.00 to 6.00	4.00 to 6.00	5.00 to 7.00	2.00 to 6.00
" Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00	..... to
Richmond, Fancy	5.00 to 6.00	4.00 to 6.00	6.00 to 7.00	2.00 to 6.00
" Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 6.00	..... to
Kaiserin, Carnot, Chatenay, Fancy	..... to 6.00	4.00 to 6.00	6.00 to 7.00	8.00 to 12.00
" Ordinary	3.00 to 4.00	2.00 to 4.00	3.00 to 6.00	4.00 to 6.00
CARNATIONS				
Fancy	1.50 to 2.00	.75 to 1.00	1.50 to 2.00	..... to 1.00
Ordinary	.75 to 1.00	.25 to .75	.50 to 1.00	..... to
MISCELLANEOUS				
Cattleyas	..... to .....	..... to .....	..... to .....	..... to
Lilies	3.00 to 10.00	10.00 to 15.00	3.00 to 15.00	15.00 to 18.00
Gladioli	2.00 to 3.00	.75 to 2.00	..... to	2.00 to 4.00
Asters	1.00 to 2.00	.50 to 2.00	1.00 to 2.00	.50 to 2.50
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Sweet Peas	.20 to .35	..... to .....	.15 to .25	..... to
Mignonette	..... to .....	..... to	1.00 to 1.50	..... to
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.50 to 1.00	..... to
" Crownatum	..... to .....	..... to	1.00 to 1.50	1.25 to 1.50
Smilax	10.00 to 12.00	..... to 12.50	..... to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	25.00 to 35.00	25.00 to 35.00	40.00 to 50.00
" " & Sprenger, bunches to 35.00	25.00 to 35.00	25.00 to 35.00	40.00 to 50.00

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BEST LINE IN THE COUNTRY

Do not keep your "I" on firms to see them
grow or to see if they are full grown, but
just glance around at the enterprising
florist supply house with everything new
for the trade. See us at the convention.

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Look through the Buyers' Directory
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Now ready in limited quantities for immediate
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Southern Greens.

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Geo. A. Sutherland Co.

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Florists' Supplies and Letters

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The KERVAN CO., 20 WEST
27th ST., N. Y.

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cother, Ferns and Mosses. All Decorating Evergreen.

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The F. E. Conine Nursery Co., Stratford, Conn. For page see List of Advertisers.

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Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address J. W. Barwell, Blatchford's Calif Meal, Animal and Poultry Foods, Fertilizers, Karbo Dip, Seeds, etc., Waukegan, Ill. Established at Leicester, England, in 1800.

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Michigan Cut Flower Co., 38 and 40 Miami
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Fancy Ferns.

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HEATING APPARATUS.

Lord & Burham Co.,
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Pierson U-Bar Co., 1 Madison Square,
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Horticum.
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Yokohama Nurseries, 31 Barclay St., N. Y.
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Thomas Young, Jr., New York.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway,
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Gude Bros. Co., 1214 F St.,
Washington, D. C.

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Eyres, 11 N. Pearl St., Albany, N. Y.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone
connections.

LILIUM HARRISII.

F. R. Pierson Co., Tarrytown-on-Hudson,
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MASTICA.

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Cochran Mushroom & Spawu Co.,
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Warnaar & Co., Sassenhelm, Holland.
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Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists
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Carrillo & Baldwin, Secaucus, N. J.
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PALMS.

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Johnson Seed Company, Philadelphia, Pa.
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H. F. Mitchell Co., 1018 Market St., Phila.
Pansy and Cyclamen Seed.

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Augustus Zirngelbel, Needham, Mass.

PATENTS.

Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
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PEONIES.

Gilbert H. Wild, Sarcoile, Mo.
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Warnaar & Co., Sassenhelm, Holland.
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Cottage Gardens Co., Queens, N. Y.
Surplus Stock.

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H. A. Dreer, Philadelphia.
Herbaceous Peonies.

Fine collection of Best Peonies. Com-
plete Peony and Plix Manual, 25 cents
each. C. S. Harrison's Select Nursery,
York, Nebr.

POINSETTIAS.

S. N. Pentecost, Cleveland, O.
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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Primula Obe. Grandiflora. 4 in. pots. \$6 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

PUTTY.

Benj. Hammond, Fliskill on Hudson, N. Y. Twemlow's Old English Glazing Putty. For page see List of Advertisers.

RHODODENDRONS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng. For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass. Hardy Roses, H. T. Rosea and Ramblers. For page see List of Advertisers.

E. H. Pye, Upper Nyack, N. Y. For page see List of Advertisers.

Palisades Nurseries, Sparkill, N. Y. Crimson Rambler Roses.

American Beauties, 2-in., \$55.00; 3-in., \$80.00 1000. Cash. J. Henry Bartram, Lansdowne, Pa.

Roses. Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1/2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

1000 plants grafted Maids, 3 inch pots, fine stock, 2000 plants Richmond, own roots, 3 inch pots, very fine plants. Price \$10.00 per hundred, while they last. Cash with order. Robert Simpson, Clifton, N. J.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass. For page see List of Advertisers.

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R. & J. Farquhar & Co., Boston, Mass. Grass Seed Mixtures. For page see List of Advertisers.

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W. W. Rawson & Co., 5 Union St., Boston. For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany, Esab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O. For page see List of Advertisers.

SIEVES AND SCREENS.

Huh Wire Works, 13 Devonshire St., Boston.

SMILAX.

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SMILAX PLANTS.

R. Kilbourn, Clinton, N. Y. For page see List of Advertisers.

SPHAGNUM MOSS.

C. W. Brownell & Co., Walden, N. Y. Peat, Moss and Silver Sand.

SPHAGNUM MOSS—Continued.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIRAEA.

Warnaar & Co., Sassenheim, Holland. For page see List of Advertisers.

STEAM TRAP.

E. Hippard, Youngstown, O.

STEVIAS.

Stevia serrata, true, winter blooming, strong bushy, ready to shift, 3 1/2 in. pots, \$5.00 per 100; \$45.00 per 1000. Asparagus Sprengeri, 2 inch, very strong, \$2.50 per 100; \$20.00 per 1000. Dean Ferris, Peckskill, N. Y.

VEGETABLE PLANTS.

Plainfield Nursery, Plainfield, Ind. For page see List of Advertisers.

VENTILATING APPARATUS.

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Weathered Co., 46 and 48 Marlon St., N. Y. For page see List of Advertisers.

Foley Mfg. Co., 471 W. 22nd St., Chicago. For page see List of Advertisers.

The Chicago Lifter.

J. C. Moninger Co., 421 Hswthorne Ave., Chicago.

VIOLETS.

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K. Engelman & Son, Pittsfield, Mass. For page see List of Advertisers.

WIREWORK.

Reed & Keller, 122 W. 25th St., New York. For page see List of Advertisers.

Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

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Detroit.

Michigan Cut Flower Exchange, 38 & 40 Miami Av. Wm. Dilger, mgr. For page see List of Advertisers.

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Pittsburg.

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New Offers in This Issue.**ALOCASIA SANDERIANA.**

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CARNATION MABELLE.

The H. Weber & Sons Co., Oakland, Md. For page see List of Advertisers.

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HARDY PHLOX.

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HIBISCUS SYRIACUS MEEHANII.

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PALMS, FERNS AND DECORATIVE**STOCK.**

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WHOLESALE FLORIST.

J. K. Allen, 106 W. 28th St., New York. For page see List of Advertisers.

THE CONVENTION: FROM THE SEEDSMAN'S STANDPOINT.

(Read by George C. Watson before the Florists' Club of Philadelphia, September 4th, 1906.)

Many a man has dug a cavity for the other fellow and fallen into the hole himself. Your committee on subjects last month assigned one to a seedsman whose duty it would be to report on the convention. Unfortunately for the committee there were no Philadelphia seedsmen at the convention big enough for this job. Mr. J. Otto Thilow of Dreer's had designed to go, and had promised to make an address, but his plans had to be changed at the last minute. So you see the cavity! Somebody had to fill it! The rest of the committee insisted on my jumping in, and that must be my excuse for attempting—even in a remote way—to fill up this hole. I approach the subject with a meekness exceeding the meekness of Moses and am very sorry we do not have the unhackneyed and original views of Mr. Thilow instead of the overworked and well known notions of yours truly.

To my mind the first and most important feature of a convention to a seedsman is the opportunity it affords him of meeting his customers. It must be remembered that the seedsman—and in using that term I mean it in the broadest sense—is the very opposite of a specialist. To be a seedsman in the proper sense, one must have a working knowledge of Horticulture, Floriculture, Agriculture and Arboriculture; because the seedsman is an auxiliary to all these different branches of the art of Gardening. You will observe that I dignify the art of Gardening by embracing under it the culinary, the ornamental, the farm, and the forest. London did so, and no more illustrious example could be followed. To be a gardener in the true sense of that term one must have a working knowledge of all these four great sub-divisions of the art and as the seedsman is the auxiliary and helper in the same field it follows that he also must be equally well posted so as to fulfill his proper functions with ease and dexterity. Therefore the seedsman, as I said before, is the very opposite of a specialist. He is all embracing. But that is the strongest reason why he should be present at a convention of specialists like that of the Society of American Florists. There he comes in personal contact with his customers gaining valuable knowledge from their experience with various specialties in which he has a direct pecuniary interest. He is able also to get a line on what is lacking and can lay his plans for future progress thus becoming not only an auxiliary but a pioneer in the onward march of the art of Gardening. I have made it a point to attend as many of these conventions as I could during the past twenty years and I have never regretted having done so. In fact, I consider it impossible to become

PRIVATE GARDENERS

WE wish to announce that we have established a department for securing positions for such that require them. Our services are absolutely free. We also wish to establish a complete up to date directory of those who are in employment. In order to accomplish this successfully, we require the assistance of every reader of this paper. If you will kindly send us your name linked with that of your employer, also of those whom you know, we would consider it a great favor.

Please Address **W. W. RAWSON & Co., 5 Union St., BOSTON, MASS.**

thoroughly posted in the profession of a seedsman without taking in as many as possible of these and other conventions bearing on any phase or branch of the art of Gardening.

The second and less important phase of this subject from the seedsman's standpoint is the actual and immediate business that can be transacted. From my own experience and from what I have heard of that of others, the immediate business returns are not adequate in proportion to the expense and moreover unless a good exhibit is put up they will be almost nil. If one goes to a convention for purely business reasons rather than for the purpose of keeping posted a good exhibit is indispensable. Quite a number of our most wide awake houses keep regularly making such displays, year in and year out, and they must find it pays them either directly or indirectly, else they would not keep it up. At the same time there can be no gainsaying the fact that a great many of our prominent seed-houses do not attend, whether it be indifference, lack of time, or what, I do not know; but I feel sure many of them need stirring up on this very subject. I can remember well how surprised I was in Buffalo in 1901 when not a single one of the local seedsmen took advantage of the grand chance of making an exhibit at the minimum cost. I was ashamed of them. And this apathy prevails today. The seed trade wants shaking up on this point. Imagine what a grand show Burpee could make with sweet peas for instance, or Maule with Dahlias or Thorburn or Henderson with a general collection of their specialties. I hope to see full advantage taken by such firms in the exhibition of 1907.

In conclusion I may say that for extent, excellence, and variety the Dayton Exhibition compared very favorably with those of recent years. There was at least one local seedsman who put up an exhibit and the Livingston Seed Company of the neighboring city of Columbus had a very interesting display of Tomatoes—the subject that has made the name of Livingston famous—besides some good new hybrids of *Begonia semperlorens*.

A FADELESS LABEL.

For a plant label nothing is more simple and at the same time durable than writing on zinc with a 2 to 3 per cent. solution of platinum chloride. The letters become jet black instantly and will stand exposure in the garden for any number of years without the slightest fading.

NEWS NOTES.

The carnival at Lyndonville, N. Y., August 28, was so successful in the display of flowers and attendance that it may become an annual feature.

The improvements made during the summer by H. W. Field of Northampton, Mass., in his store on Main street, are pronounced very effective and convenient.

E. F. Dwyer & Son of Lynn, Mass., have been awarded a first-class certificate by the Massachusetts Horticultural Society for *Clematis heracleifolia*.

While working on the new greenhouse of Sidney Littlefield at North Abington, Mass., Wm. Brawn lost his balance and in his fall of 15 feet was bruised and badly shaken up.

During a recent heavy shower lightning struck one end of the new greenhouse recently added to the plant of the Cottage Gardens Co., Queens, N. Y., twisting the iron work and breaking some glass.

At the Nashua, New Hampshire, State Fair, this week, there is a very fine showing of plants and flowers, among the most successful exhibitors being August Gaedeke, of Nashua, and C. S. Finacom of Dracont, Mass.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR SALE—Five greenhouses containing 5,000 feet of glass, hot water heat, Town water. One acre of land 10 minutes' walk from depot; 1 minute from electric. Near churches, stores and schools. For particulars write A. E. Belcher, Foxboro, Mass.

SITUATION WANTED—As private gardener on place where there is a range of greenhouses. Best of references. Over 7 years in last place. Expert rose grower. Married. Address J. J., care HORTICULTURE.

WANTED—Boy about 16 or 18 to do general work around greenhouses. Good wages and good chance to work into rose houses. R. Miller, rose grower, East Brookfield, Mass.

WANTED—Florist and gardener, with experience in growing choice pot-plants. Give experience, copy of references, age, etc. Wages, \$80.00 per month. Address 67, care HORTICULTURE, 11 Hamilton place, Boston.

WANTED—Medium sized second hand hot water boiler. H. W. Vese, Hyde Park, Mass.

POT MAKERS FOR 140 YEARS
A. H. HEWES & CO. INC. CAMBRIDGE, MASS.
 FLORIST WARE OF EVERY KIND

THE SPECIFIC REQUIREMENTS OF
 NEW VARIETIES IN CALI-
 FORNIA FRUIT GROWING.

Under the above caption of "New Varieties in California Fruit Growing" Prof. E. J. Wickson of the University of California Experiment Station presented a thoughtful paper at the nurserymen's convention at Dallas. After referring to the achievements of Luther Burbank, the methods and aims of that much-discussed worker, and the unavoidable slowness in disseminating new varieties so that they attain importance in the commercial market, Prof. Wickson said that one reason why new varieties do not figure more largely in California fruit growing is the smallness of the amateur interest. There is, in fact, almost an absence of pure amateurs, enthusiastic, critical, discriminating, athirst for novelties. Even suburban planters follow the lead of the commercial orchardists and plant chiefly that which has shown adaptation to local growing conditions, and few are averse to making what they can by sale or small surpluses. The result is that California fruit growing is almost wholly commercial in spirit, policy and point of view, which is perhaps only natural in a state where the fruit products reach an annual aggregate value of something like sixty millions of dollars. The effect is to concentrate attention upon varieties which have achieved fame for profit, and to repress amateur devotion and indulgences.

At the same time there is and has always been quite a disposition toward trial of novelties among commercial growers, especially manifested in search for specific characters which are seen to be desirable, rather than desire of newness for its own sake, which is often a point of pride among amateurs. To this enterprising and discriminating search is due the prominence of some of the leading varieties, which are chance seedlings recognized as meeting special requirements and grown great because they really did so. The California grower is, therefore, quite certain that he needs not varieties new throughout and of startling characters, but improved varieties, which hold the good points of the old and add other points. For instance, he calls for trees resistant to disease, for improvement of the fruit in beauty, flavor and keeping qualities, for varieties, similar in kind, which fill gaps in the ripening season, so that he can employ help continuously, and shippers and canners agree with him,

STANDARD PLATE GLASS CO.
 Manufacturers, Importers and Jobbers
 AMERICAN AND FRENCH GREENHOUSE GLASS
 26-30 Sudbury Street
 61-63 Portland Street
 BOSTON, MASS.

so they can keep the cars moving and the cannery plants at work. The grower says he must be careful not to plant something different from what is already growing and selling well in his region, and this is also the advice of the trade to him. He cannot risk much on varieties of entirely different types, although most growers are always doing a little experimenting. Nor should he undertake too many varieties, because a profitable orchard is not a pomological museum. There must be a large quantity of uniform fruit to make any district commercially prominent.

GREENHOUSES BUILDING AND PROJECTED.
 New.

Wakefield, Mass.—Peter Ball, one house.

Sacred Heart, Minn.—Mr. Nicholls, one house.

Newburgh, N. Y.—Yness Floral Co., five houses.

Wigginsville, Mass.—Swanson & Dillgren, one house, 30 x 200.

Ashtabula, O.—Ashtabula Greenhouse Co., 18 houses, rebuilt.

The Goshen Floral Co., of Goshen, Ind., have moved from Lincoln avenue to East Washington street.

Additions.

Kennebunk, Me.—J. O. Elwell, one house.

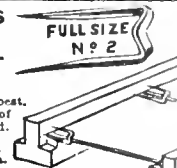
St. Louis, Mo.—Board of Public Improvements, two houses.

N. Abington Mass.—S. Littlefield, one house; 45 h. p. boiler to be installed.

INCORPORATED.

The Schwen Floral Co., Toledo, O., by F. J. Schwen, J. C. Gribben, A. Joseph and J. J. Schwen. Capital, \$10,000.

W. P. Hayden of Rockland, Mass., made one of the finest dahlia shows of the year in the floral department of the Weymouth Agricultural Society's Fair, last week. The collection comprised all classes and many novelties.

Holds Glass Firmly
 See the Point 
PEERLESS
 Glazing Points are the best.
 No rights or lifts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
 714 Chestnut St., Phila., Pa.

MASTICA
 (PATENTED)
 For Glazing Greenhouses
 Manufactured only by
F. O. PIERCE COMPANY
 170 Fulton Street, New York
 Agencies in all the Principal Cities of the United States and Canada.
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 Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failure of Others."
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STANDARD FLOWER POTS

Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 1/2 in. pots in crate	\$4.88	120 7 in. pots 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. pots 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 " " "	1.16	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 percent. off for cash with order. Address Hillfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

BOSTON PLATE & WINDOW GLASS CO.
GREENHOUSE GLASS
 German and American
 261 to 287 A St., BOSTON 20-22 Canal St.



You Agree

that it's worth something to do business with people who do it pleasantly — no contentions over small points of really no importance — a firm who does everything they do in a big way. Then couple up pleasant dealing with the high water mark in materials and you have what H. & Co. stands for in greenhouse building.

HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.



PLANS THE THING

You can build when you want to, but there is only one time to plan

That time is **before** you build

The planning of a greenhouse does not simply mean a matter of proportions, a question of measurements, materials. It means an economy of plan — an arrangement that reduces work to a minimum, that permits heating economy. It means to so plan — that future additions may be run equally economical.

We have made a business of right planning, and we know how to plan right.

Lord & Burnham Co.

GREENHOUSE DESIGNERS and MANUFACTURERS

1133 BROADWAY, cor. 26th Street, N. Y.
Boston Branch: 819 Tremont Building

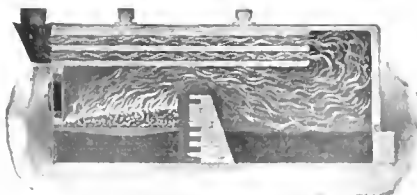
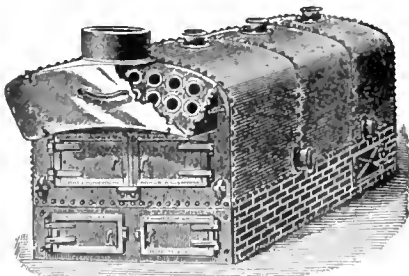


Kroeschell Bros. Co.

IMPROVED

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HORTICULTURE

Vol. IV.

SEPTEMBER 15, 1906

No. 11



JOHN WESTCOTT

Vice president-elect of the Society of American Florists and Ornamental Horticulturists.

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SEPTEMBER 15, 1906

NO. 11

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Write for Price List.

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Musa sapientum



The banana of commerce, *Musa sapientum*, as a pot plant, is perhaps scarcely worthy of a place in the list of usefuls or ornamentals; but nevertheless in the various stages of growth, flowering and fruiting, it is an extremely interesting plant and may well repay the interest taken in it by any one who has the facilities for growing it.

Upon several occasions a banana plant grown by Wm. Keith, gardener to T. M. Stetson of New Bedford, Mass., has been an interesting feature of the flower shows held by the New Bedford Horticultural Society. For several years Mr. Keith has never had his tropical house without a banana plant in some interesting stage of growth.

The banana may without much discourtesy, be called a stalk; bearing upon its apex a few leaves and a bunch of flowers and fruit. When the fruit has ripened the stalk dies; but in the meantime several suckers have sprung from the base of the stem; and as the plant bears no seed it is by means of these suckers that it is propagated. The plan adopted by Mr. Keith is about as follows: After the fruit has been gathered, take the plant from the tub in which it has been grown and take off the suckers which are already rooted; these are put into twelve-inch pots and subsequently moved on into 16 to 24 in. and finally into a 30-in. tub—the larger the tub the better the fruit. A rich soil is used and the plants are fed with liquid manure. The temperature must not be lower than 60 at night and may reach 70 or so in the day time.

The time from the planting of the sucker to the gathering of the fruit is from two to three years. The time from the first appearance of the flower bud to the gathering of the fruit is usually nine to ten months and during the whole of that time the changes of form and color of flowers and fruit are a source of much interest.

I may add that the fruit thus grown is edible and of fine flavor.

Thomas White

Riverside Cemetery, Fair Haven, Mass.

Chrysanthemums

We have now entered the season for the raising of buds of chrysanthemums intended for exhibition. They may be secured and raised by observation and experience, but for guidance, September is the principal month for starting and so soon as the buds begin to swell we should assist them from now on all we can. On rainy days they should be sprayed over to add to the moisture which helps the bud to swell and keeps the temperature of the house cooler. The ventilators should be kept well open, day and night, both top and sides, so that a free circulation of air can pass through the house at all times.

Whatever fertilizer is applied, it should be something in which the feeding elements are immediately available for the plants' use, and preferably in a liquid form. Sheep, cow or horse manure should be the basis, alternating with chemical fertilizers such as sulphate of ammonia, nitrate of soda or nitrate of potash, with a watering of clear water between the two. In using the animal manures a convenient way is to put some of the manure in a rough bag and steep in a barrel for three or four days before using and dilute with clear water until the desired strength is attained—which must be left to individual judgment. A safe way to begin would be to have the water like weak tea and the strength of the liquid increased as conditions warrant. Hen and pigeon manure is something procurable but it must be handled with great care or otherwise injury is sure to be the result. A safe way to use it would be to mix it with seven or eight times its bulk with soil and then spread very lightly on the bench.

For chemical fertilizers one pound of sulphate of ammonia or soda—whichever is to be used—to fifty gallons of water is quite safe. There is no fixed rule or formula that can be laid down and adhered to; the condition of the plants must be our guide and a change of diet is very beneficial. Feeding should be discontinued, as a rule, when the outside petals begin to show color. Pink varieties do not stand so much feeding as other colors and with these it should be discontinued sooner. One thing that is well to bear in mind when using chemical fertilizers is never to water the plants when the soil is so dry that the plants are in immediate need of water or serious disaster will be the result. Chemical fertilizers should be applied when the soil is in a fairly moist condition, neither wet nor dry.

One of the first requisites after getting the buds set is to see that the plants are thoroughly clean and free from insect pests. Our most troublesome pests are greenfly, red spider and thrips. If the buds are not thoroughly free from them before the petals begin to expand all the fumigating that can be done afterwards will not dislodge them, and the flower by cutting time is practically ruined.

By the time the buds show color the days will be shorter and the nights cooler, the plants will not dry out so fast. The means should be to keep the plants fairly moist, without getting them too dry or too wet. While the flowers are in bloom, spraying now and then with water will do no harm. The centre of the bud, and the bud will soon be open. On very sunny days the pot is not to be drawn near the glass. The moisture should be thick and the temperature of the house should be raised to 70 or 75.

The plants should be watered well at the end of the

the conditions permit, a temperature of from 45 to 50 degrees should be maintained. Very often at this season of the year changeable weather prevails. On cool nights we can regulate our temperature by fire heat but on foggy warm nights when the outside temperature is higher than we want it for inside it is then that the adverse conditions must be met by free ventilation and a little fire heat to dry up the dampness. At no time should the ventilators be closed tight, otherwise the moisture that would have escaped through the ventilators will fall on the flowers and damping will be the result. By the middle of October a very light shading of whitewash is beneficial; it helps to break the strong rays of the sun, keeps the temperature lower and insures a better color in the flowers.

In next week's issue I will have something to say about small bush plants for commercial purposes.

William A. Riggs

Rose House Wisdom

About a year ago I wrote an article in *HORTICULTURE* on the necessity of starting fires early for the prevention of condensation on the roses. I think more has been written on this point than almost any other and yet every year there are some who fall into the trap. That delightful and practical writer, Mr. John N. May, wrote this warning many years ago and, in talking of that gentleman, his writings were of the most practical I ever have read—good sense, coupled with practical experience—two things which count largely in any business. The trade papers have been a god-send to many and a blessing to all and the careful reader of the trade papers always has found something interesting and instructive. They have helped us all, and the man who will say he has never read anything helpful in the horticultural trade papers or who knows so much that he don't have to get any more information—that man has no business on this planet; he had better try some missionary work elsewhere. In conversation with a gentleman last winter—a man of national prominence, one who has had experience in answering questions for trade papers—he said it would surprise many to see the questions asked, signed by the firms and using their printed paper showing them to be in the business, and some were not youngsters at that. In my apprenticeship days it was counted almost a sin to have any booklearning concerning the business; when a man found out anything practical the find was zealously guarded. Now the change; advice is given on almost any subject; if you are sick the craft knows it; and when you shuffle off this mortal coil your picture—if you ever had one taken—is put in to show your brother florists what you looked like.

It was left for Palmer, a commercial gardener to go to Dayton to tell the private gardener what he ought to be and how he ought to act. It seems very strange that there couldn't be found a private gardener in learned Boston to take up the subject, but probably the private gardener will next be given a chance to tell us what a commercial gardener ought to be and how he ought to act; then we shall get the bard's meaning

"O wad some power the giffie gie us," etc.

Robert Thompson

Rodriguezia venusta



Rodriguezia venusta Reichb. Z. synonymous with *Burlingtonia venusta* Lindl. is one of the few species of this genus which are of any particular horticultural value. Unlike most of the *Rodriguezias*, which are usually loose and straggling *R. venusta* has a compact habit.

The flowers have a delicate fragrance, are white with a blotch of yellow on the labellum. Sometimes they come from the base of a half matured growth and sometimes not until the pseudo-bulb is fully matured, consequently there is no definite flowering season. *Rodriguezia venusta* is described in certain European works and is also being sent out by European and American dealers under the name of *Burlingtonia fragrans*, so that buyers unless the purchase is made personally while the plant is in flower cannot be sure if they will get *B. fragrans* Lindl. which according to American nomenclature should be *Rodriguezia fragrans*, and which has erect flower spikes, or *R. venusta* which is more desirable and has pendulous scapes.

Rodriguezias are natives of tropical South America and should be grown in a shady, moist, warm greenhouse near the glass and where they can be syringed frequently when growing.

They may be kept somewhat drier in winter but must not be allowed to shrivel. A lookout should be kept for thrips on the young growths, and on the young flower scapes. The plants succeed best in baskets in fern roots and charcoal.

Nearly all the species have a peculiar habit of throwing up roots amongst the foliage which usually branch and somewhat detract from the appearance of the plant.

James Hutchinson

NEWS OF THE CLUBS AND SOCIETIES

PITTSBURG AND ALLEGHENY
FLORISTS' AND GARDENERS'
CLUB.

The meeting of the club on Tuesday evening, Sept. 4, was interesting, not only from the display of gladioli and asters, but from the yarns of the members returned from Dayton convention and from vacation across the water. It was evident that the summer outings had done everybody good.

Arthur Cowee, Berlin, N. Y., showed his Gold Medal collection of gladioli in three sections, white, pink and red, and dark. Under name were shown Rosella, Baron Hulot, a dark purple, Mephistopheles, Scarsdale—something after the order of America, but darker—and Jane Dieulafoy, a good white with dark red blotch in the throat; the latter perhaps the best shown under name. The collection had many varieties and considering the long distance travelled was in good shape and of unusual excellence.

The Cushman Gladiolus Co., Sylvania, O., showed two vases of gladiolus seedlings, a vase of seedling dahlias, one of which, a scarlet, attracted favorable comment from all, and the dahlia Sylvia, said by one of our members who has used it quite a deal, to be a very good keeper. It was out of season for the gladioli with the Cushman Co. they wrote, but the flowers they did send were attractive, and made one wish that the season was at its height.

Arthur Banning, Kinsman, O., sent a large collection of gladioli and being a comparatively near grower his stock came in first-class shape, and showed to great advantage. Under the name were America of an even higher grade of excellence than is usual for this admirable variety; a pink seedling No. 12; a vase of "1900" with extremely long stems; Madame Monneret; the good old standby Augusta, grown to perfection; pink seedling No. 2; Princess, Octoroon and for the star of the collection a new yellow or cream seedling No. 1. This attracted as much comment as did America when first shown, and should it prove an equally good grower will make a worthy sister to that popular variety. Schenley Park Greenhouses, Pittsburg, showed an attractive collection of Simple asters in all the popular colors.

After the flowers had been fully inspected and discussed came the Florists' Convention; it seemed to be the opinion that while there was nothing to criticize unfavorably at Dayton, yet the smaller cities like Dayton and Asheville are at a disadvantage in many respects compared with the larger cities, especially when it comes to drawing the attendance.

There is nothing like travelling abroad to take the conceit out of one. One of our members who was across the pond this summer went down into Wales to see an old gardener under whom he had worked as a boy, perhaps thirty years ago. The old man was now foreman on the estate of a lord in Wales, and our member begged himself in gleeful anticipation of how he would take the old man down with his stories of carnations and flowers in the States, but when his friend took him into the greenhouse and showed

him carnations in pots with their stems and into another house where they were picking sweet peas on step ladders, the vines being 12 feet long, our man had nothing to say about the States.

The next meeting of the club is to be a "Surprise." H. P. JOSLIN.

CANADIAN HORTICULTURAL
ASSOCIATION.

The ninth annual convention of this organization was held on August 29 and 30 at Guelph, Ontario, and in point of attendance and interest was one of the best thus far. Prof. J. B. Reynolds extended a welcome to the visitors which was eloquently responded to by A. C. Wilshire. President Fendley made an acceptable presiding officer and the reports of secretary Ewing and treasurer Simmers showed the society to be prosperous. Papers were presented by Prof. R. Harcourt on Fertilizers, John Morgan on Carnations, J. H. Dunlop on Roses, Prof. T. D. Jarvis on Greenhouse Insect Pests, on Greenhouse Heating by R. W. King, on Conifers by George Vair and on the Retail Trade by W. C. Hall. Officers for the coming year were elected as follows: President, W. J. Lawrence, Toronto; vice-presidents, John Walsh, Montreal, and E. Dale, Brampton; secretary, A. H. Ewing, Woodstock; treasurer, Herman Simmers, Toronto, London, Ont., was selected as the next meeting place. There was an interesting trade exhibition in connection with the meeting. The visitors were the guests of the Guelph Horticultural Society on Thursday, at which time a cut glass table set was presented to president William Fendley.

COLUMBUS FLORISTS' CLUB.

Last Tuesday evening the regular September meeting of the club was held in Iroquois Hall. Vice-president Curry was in the chair, and secretary McKeller attended to the records. Apart from the regular routine business of the evening the most important matter for consideration was the question of whether or not our club would hold a chrysanthemum show this fall. A special committee consisting of Messrs. M. B. Faxon, chairman, Woodrow, Knopf, Stephens and McKeller, who were chosen some time ago to investigate this matter, reported that it seemed best to recommend that no show be held this fall, but that in November, 1907, our society hold a grand chrysanthemum exhibition. This view of the matter was approved by the club, and the same committee was chosen to take charge of the matter. The next meeting of the club will be held Tuesday evening, September 18th.

AMERICAN INSTITUTE.

The annual chrysanthemum show and exhibition of palms, ferns, orchids, roses, carnations, violets, etc., of the American Institute will take place at the Berkeley Lyceum Building, 19 and 21 West 44th street, New York, on November 7, 8, and 9. The selection of prizes is a generous one, and will bring out a splendid show, which can be had on application to Mrs. Barron, secretary, Horticultural Society.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The report announced at the September special convention of the Horticultural Society of Massachusetts, held at the Hotel Marlborough, Sept. 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 1906, for display of Agrostis, Blue Hill Nurseries, for Lathyrus, and *Canavaya superba*.

Honorable Mention to B. J. O'Neil Nurseries for *Lathyrus latifolius*, F. J. Ginn, H. H. Rogers, for *Begonia grandiflora erecta cristata*; A. F. Estabrook, for display of foliage plants; H. A. Dreer Inc., for *Adiantum sentum ramosum*, *Adiantum macrophyllum album striatum*, *Asparagus Ducheni*; Maranta Gouletti and *Pteris Childsii*.

Silver medal to Massachusetts Agricultural College for display of fruits.

It will be children's day at Horticultural Hall next Saturday, September 15, when the second exhibition of the products of children's gardens will be held.

Five prizes are offered for the best general collection from a school garden and five for the best general collection from a child's home garden. All the plants, flowers, and vegetables shown must be the results of the work of the children in every way. This exhibition is a part of the work of the Committee on Children's Gardens of the Massachusetts Horticultural Society of which Henry Saxton Adams is the chairman. The object in view is to encourage a taste for gardening among the children and to direct attention to the enjoyments and advantages of the rural life. There is a wide-spread interest throughout the country in this children's garden movement and it has received the indorsement of many leading educators.

The exhibition, which is free to all, will be open from 2 to 4 o'clock.

GARDENERS' AND FLORISTS'
CLUB OF BOSTON.

The next meeting of this club will be held in Horticultural Hall, Boston, on Tuesday evening, September 18, at 8 p. m. Addresses will be given by members who have been away during the summer and have entertaining experiences to relate of what they have seen and heard abroad, at the Dayton Convention and elsewhere. Much business of practical value will come up and a very large attendance is looked for.

NEW DAHLIA SOCIETY LAUNCHED

On Sept. 5, during the dahlia show held at the Horticultural Hall, at Boston, a dahlia society was formed. The temporary officers were chosen, which consisted of H. F. Burt of Taunton, as chairman, and Maurice Fuld of Boston, as secretary. A committee of five was appointed to arrange for another meeting to perfect details and elect permanent officers. Over twenty-five enthusiastic dahlia growers were present and willing to sign their names as members of this new society. The secretary reports that he has no doubt about seventy-five names of high class and expects one hundred names before the society is fairly started. There seems to be a great deal of interest over the dahlia, and it is hoped that a dahlia society will be organized

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INTERESTS

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Telephone Oxford 292

WM. J. STEWART, Editor and Manager.

The violet outlook

Reports from the Rhinebeck violet region, up to the present time indicate a more favorable outlook as to the health and productiveness of the stock and a much more confident feeling among the violet growers. A great deal depends upon the next few weeks. Rampant growth and dull, muggy, weather furnish ideal conditions for fungous troubles and when these swoop down on a violet house there is no telling what the end may be. But unless weather vagaries should thus conspire to aggravate existing conditions it is probable that the large increase in glass area made during the past season will fully offset any shrinkage in product that may occur and there will be violets enough in that enchanted land for all demands.

A new dust-laying process

In connection with the account of the experiment in road oiling described in our Newport notes it may be interesting to some of our readers to know that Superintendent Pettigrew of the Boston park system has been working on a new process, original with him, which has thus far given very encouraging results. Several pieces of driveway in the Back Bay Fens and on the Riverway and Commonwealth avenue have been treated with the substance, which is simply Texas oil emulsified and mixed with water in the proportion of ten or twenty per cent. Different from the Pennsylvania petroleum, which has a puratine base, this Texas oil has an asphaltum base and the result of its application is a skim of asphaltum surface which mixed with the fine dust under the pressure of the wheels becomes very smooth, of a pleasing brown color, and it is hoped that the oil being used in so small proportion it will rapidly volatilize and allay criticism regarding its odor. The dust is thoroughly laid on the roads treated and it is thought possible that as low as a five per cent. solution applied weekly from a

watering cart will be found sufficient to keep them permanently so.

The parcels post movement

In another part of this paper we present the proposition of Secretary James L. Cowles of the Postal Progress League whereby he claims the rural free delivery mail service can be made a means of profit to the government instead of a heavy burden as it is at present. No man in the country has made a more exhaustive study of the postal service of this and all other countries or is better qualified to speak intelligently on any phase of this important subject. His proposal involves a very modest appropriation when the possible results are considered. Were it not for the express companies we should have had parcel post accommodations long ago. That they will spend money freely to oppose Mr. Cowles' scheme is certain; but this or something similar is bound to be tried sooner or later in spite of the opposition of express company senators and their lobby. It will be a great boon to the flower nursery and seed trade when it comes and our readers should take every opportunity to make their demand heard. We have no animosity towards the express companies and no quarrel with them except when as in the case of Platt's U. S. Express at the present time, they impose extortionate rates on our flower growers and add to the injury by insulting our national and local organizations when they have appealed for justice. We hope to see Mr. Cowles' plan put into operation.

A word for the judges

The date for the numerous fall exhibition is approaching and the selection of judges is now in order. This duty is too often done hastily, as everybody knows. Appointments should be made well in advance so that each judge may acquaint himself intimately with the nature of his duties and also that each prospective exhibitor may be informed as to who is to pass upon his exhibit and, if not fully satisfied as to the proficiency and fairness of the appointee, given an opportunity to make prompt objection or abstain from entering into a competition where his failure to get first prize will be the signal for protest and ill-feeling. The office of judge at these affairs is usually a gratuitous service undertaken by reason of good-nature and a willingness to assume a difficult duty in a self-sacrificing spirit for the general welfare. Having accepted and been accepted, everything possible should be done to facilitate his work, rules as to entry and staging should be enforced to the letter and all possibility of diverse interpretation of the intent of the schedule dispelled. Above all, give the judges a clear hall and plenty of time in which to make their awards with due care and deliberation. This can be done if wise rules as to time limit for staging are made and enforced. Then, unless a glaring and unmistakable blunder has been made in the awarding let the losing exhibitors hold their peace and take comfort from the fact that they will have another chance next year.

After Adjournment

A recent number of the Philadelphia Public Ledger presents a picture of a group of serious-looking young men gazing intently at some object in a greenhouse, inscribed "Students at University of Pennsylvania watching the Nephthe trapping a rat." Philadelphia is never slow on diversions, and the Ledger is its vade mecum.

A Bostonian just returned from the popular "trip to Europe" says what struck her most in London was not the crime and fogs, but the flowers! Flower-beds were everywhere, in window-boxes, in gardens spied through pallings and over brick walls, and in glorious display in the parks. She never dreamed of a London with flowers, hence the surprise. Some day American cities will be smitten by the same London idea of relieving the monotony of bricks and stones with summer's flowers. Strangers rave about the loveliness of Boston's suburbs; give them the chance to say nice things about the floral decked streets. Cultivate a love of flowers; they cover a multitude of sins against architecture. Boston Traveler.

True as Gospel, and applies to other cities besides Boston. Let us all take hold and hurry along the great day.

Frank Platt says that in 15 years' experience he has never heard of a complaint of the rates of his express company, and so he concludes that they are entirely satisfactory. A more reasonable conclusion would be that the public has realized the futility of kicking. Boston Daily Globe.

Frank Platt, we believe, is a relative of one Tom Platt, of wide political notriety and president of the United Express Company. If Frank Platt will look into the correspondence of his company he will find record of a letter written July 3, 1906, signed by E. T. Platt, treasurer, in which acknowledgment is made of the receipt of a very urgent complaint of unjust charges on cut flower shipments. Not having yet "realized the futility of kicking," that section of the public known as the S. A. F. propose to have some further correspondence with Mr. Platt's company in the near future.

NEWPORT NOTES

Last Saturday morning the people of Newport were put into a state well nigh bordering on the hysterical by the appearance of the most fashionable driveway in the city—Bellevue Ave.—covered and puddled with an ill-looking and ill-smelling compound called by some crude petroleum and tar. For some time past many complaints were made by summer residents of the dusty condition of the avenue, ending ultimately with the offer of a few of their number to purchase enough of this oil to cover that section of the avenue from Bath Road to Bailey's beach. The offer was made to the city government and accepted, and permission granted for the experiment to be made last Saturday morning. The oil was put on with the regular street water sprinkler and the result was that for a time the avenue looked black and had on its surface a chain of puddles into which those of the summer residents who were not aware of the proceedings, innocently drove their costly equipages. Their drive on the avenue was very short on that eventful morning; in short, the avenue was deserted for the rest of that day. But to do the perpetrators of this temporary injury justice, the conditions were materially

changed for the better on Monday morning; the oil soaked through on hard material of the road, and the people can walk and drive therefrom from the annoying clouds of dust previously complained of.

OBITUARY.

George W. Patten of Lowell, Mass. died on September 1, aged 53 years, 6 months, 5 days. He had been in poor health from a paralytic shock for some months. Mr. Patten was a native of Waterboro, Me. His first employment as a florist was with his cousin M. A. Patten, the well-known carnation grower of Tewksbury, Mass., who at that time was conducting a retail store in Lowell. George then went into business for himself for a time, after which he went west and secured employment with R. J. Mendenhall of Minneapolis. Returning east he again entered the employ of M. A. Patten.



THE LATE GEO. W. PATTEN

taking charge of the Lowell store until nine years ago when associated with Mr. Roberts he bought out the store. Mr. Patten has many friends whose sympathy has been with him through his long discouraging illness.

From our English contemporaries we learn of the death of two leaders in science, Dr. Marshall Ward who, since 1895, has acted as professor of botany in the University of Cambridge, who died on August 24th at Torquay, and Charles Baron Clarke, whose monographs and contributions to various "Floras" have won an enviable reputation for him, and whose death occurred on August 25th.

A HOME-MADE WEED KILLER.

Arsenate of soda and water in the proportion of one pound to a gallon will kill weeds in path or garden readily and effectively. This substance is the basis of most of the weed killers on the market.

John Westcott

John Westcott is a man of whom it is hard to sketch. His personality impresses one with a sense of the openness, simplicity and directness of his nature. There is nothing of the belated trade or dual personality about John Westcott. He has lived over 30 years in the same community, his belongings and outgoings being all as in an open book. He declares himself no saint, no shining example, and yet I venture to say that he is a much wholesomer proposition than many who make more pretences, for through his every word and act shines the clear soul of ultimate honesty, the noblest handiwork of the Almighty—a manly man.

Having such a man in our midst, how could we Philadelphia people resist asking for him the place of honor in this year's election at Dayton so that we could put our best foot forward in 1907 with John Westcott in the vice-presidency?

The prosaic details of Mr. Westcott's career have been told so often in the trade papers that it is unnecessary to repeat them here. Suffice it to say that he is a gardener and florist of the old school and knows every phase of the business thoroughly. He was a partner of Pennock Bros., the leading retail store in Philadelphia, for over thirty years, and now owns the growing establishment at Ridge and Lehigh Ave., but has retired from active business and leaves the management to his son and other members of the family. But although retired Mr. Westcott is still in the prime of vigor, hearty and healthy, and enjoys all the good things of this life as they come along with a zest that is envied by many men only half his age. And if there is one thing that distinguishes him more than his squareness or his picturesqueness it is his usefulness. No labor is too hard or too irksome for him; no half measure will suit John Westcott. Like the late Charles Bradburn his motto is "Thorough" and he lives up to it. He was one of the founders of the Florists' Club of Philadelphia which was the first organization of its kind (being founded in 1885) and he has been one of its main bulwarks ever since. The club is more to John than church or chapel, more than lodge room or party caucus, and I verily believe that if Mrs. Westcott were not the exceptionally charming woman that she is it would be more to him than wife or weans. That this club has been so successful is largely due to the unique and powerful personality of Mr. Westcott, and everybody hopes that he may long be spared to continue his earnest effort for the advancement of its interests. To quote Law's spirited description:

"John Westcott pushing, get there John, with steam in woodrums, store to be made he finds there's work to do. He always works the more."

"I've seen of sturdy fisher-men, the Westcott Council men."
In work or play a rare philosopher, a steadfast friend, a charming companion, good-hearted, generous to a fault. May his tribe increase and flourish, and "may his shadow never grow less!"

GEORGE C. WATSON

NEW YORK FLORISTS' CLUB.

The opening meeting for the season took place at the club rooms on West 23d street, on Monday evening, September 10. Fifty members were present, the very hot weather undoubtedly keeping many away. Not much business of importance was done. A considerable time was given up to a discussion of the National Flower Show which the S. A. F. has under advisement at the present time, with a view to obtaining a consensus of the views of the members of the club in general on the various phases of the project. The net result was a vote unanimously upholding August as the most desirable date in which to hold the annual conventions as heretofore. Messrs. E. V. Hallock, Alfred Zeller and John Birnie were appointed a committee to prepare suitable resolutions on the death of James Weir, Jr., and Messrs. Alex. Wallace, W. F. Sheridan and C. E. Weathered were entrusted with a similar duty as to the late Roger O'Mara. The transportation committee reported, and was discharged with thanks for its efficiency on the Dayton trip. The outing committee's report will be presented at the next meeting. H. H. Barrows of Whitman, Mass., was elected to membership, and three new names were proposed. A nice exhibit of herbaceous flowers was staged by J. T. Lovett. A magnificent contribution of out-door bloom expected from Bobbink & Atkins got side tracked somewhere on the way. Messrs. Nugent, Koehne and Schulz distributed the usual rations with lavish liberality.

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting of the New Jersey Floricultural Society was held on the seventh instant, with a fair display of flowers, fruit and vegetables. Alexander Wallace was present, and made remarks concerning the recent national convention and exhibition at Dayton, O. He referred particularly to the work horticulturally, of the National Cash Register Company and its influences on the citizens of Dayton, calling attention also to similar effort in the line of civic improvement which he had seen during the day. He mentioned the proposed international flower show to be held in Chicago in November, 1908, under the auspices of the Society of American Florists, and urged other gardeners of the Oranges to send exhibits.

The late Henry Graves was a prominent exhibitor of rare orchids at the meetings of the society, and in many cases his entries were of plants never exhibited elsewhere. The following resolution was presented by a committee consisting of Joseph B. Davis, William Read and George Smith, and unanimously adopted:

"Resolved, That in the death of Henry Graves this society has lost a patron of horticulture, a sympathetic friend, and that in acknowledging this event publicly a just recognition is made to the value of his contributions of plants and flowers at our exhibition to the inspiration of our members and the education of the public generally."

Two new members were placed in

nomination, and the October meeting was voted a special dahlia night.

JOSEPH B. DAVIS.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The E. G. Hill Co. offer a special prize of \$15.00 for the best twenty-five blooms of chrysanthemum Mary Mann, and \$10.00 for the best fifteen blooms of any introduction of 1906.

DAVID FRASER, Sec'y.

AMERICAN CARNATION SOCIETY.

Baur & Smith, Indianapolis, Ind., register Pocahontas, a cross between a light red seedling and Gov. Roosevelt; strong, upright grower, free flowering, and produces flowers of very large size, with good calyx and a long, strong stem; color, a bright shade of crimson.

ALBERT M. HERR, Lancaster, Pa.

SOUTH SHORE DOINGS.

Thirteen years ago W. H. Wyman, the proprietor of the Bay State Nurseries at North Abington, Mass., found one acre of land sufficient to grow all the stock he needed in his business. To-day he has fourteen acres in herbaceous stuff, forty acres of shrubs, row after row of roses, large plantings of evergreens, rhododendrons, fruit and ornamental deciduous trees, small fruits, and an almost endless variety of miscellaneous plants, making altogether over one hundred acres of planted stock. A new frost-proof storage warehouse has been built the present season, making the total storage capacity fifty carloads. A special system of yearly transplanting and root pruning of evergreens produces a desirable growth of fibrous roots. Rhododendrons are grown under unusually favorable conditions, a growth of pines, beneath which they are planted, giving them the surroundings of their native haunts. The increase of interest in herbaceous plants has been recognized in the new propagating houses and the large acreage devoted exclusively to these plants. As we look over an enterprise such as this we are forcibly reminded that the field of horticulture is boundless, and what it has to reveal to those who would traverse its expanses or the treasures it yet has to pour into the lap of mankind are known only to a limited extent. Signs are not wanting, however, to show that the nurseryman, the florist and landscape gardener of the future will carry on their vocation on far different lines from those at this time maintained. As a commercial pursuit in its present stage of development, it is safe to say that in spite of increasing interest and demand, there is but little room for the man of shiftless methods or the one who would lay back on past achievements. The fakir, although continually making an appearance, stays but a short time and then passes down and out.

E. C. Rogers, of Roslindale, has the foundation for a new house, 130x18. The land upon which it will stand is planted to violets and Mr. Rogers will build his house over them without moving any, with the exception of one row where the middle posts are to be placed. The heating pipes will be fastened to the posts from the outside before the roof is laid.

G. H. HIGGINS.

MESSRS. GUDE SEE THE FAR WEST.

We are in receipt of a pleasant letter from W. F. and A. Gude, recounting their experiences on a recent trip to Red Mountain, Colorado. At Denver they visited the grounds of W. W. Wilmore, a former resident of Laurel, Md., where they found dahlia cultivation carried on to a high degree of perfection. Mr. Gude continues:

"It might be well to state that these beautiful fertile acres were a barren waste before Mr. Wilmore took hold of them, but by the introduction and perfect control of the irrigation system, Mr. Wilmore has converted it into a model commercial, floral and fruit farm. In all, the home of Wilmore with his sturdy family, his welcome, whole-soul greeting, his kind hospitality and his heartfelt 'come again,' makes one feel proud to be a florist, and that such men are in the business to grow flowers to such perfection as we saw here."

Mr. Gude also writes in praise of the Park Floral Company's place, the park system of the city of Denver, and concludes as follows:

"Having always been in favor of our national convention reaching out, I feel now more than ever that one of the best moves the national society could make would be to hold a convention in Denver, Colo., in the near future."

"In the midst of the Rocky Mountains we were again impressed by the clear color and wonderful beauty of the columbine, which grows wild in great profusion on the mountain tops, also the forget-me-nots, growing in the highest altitude far above the timber line. At Colorado Springs and Manitoux, we also noticed that the Western people put forth more effort in producing beautiful lawns and gardens than do our Eastern people."

CLEVELAND NOTES.

The Euclid Avenue Gardener's Club held a Gladioli Show at Euclid Beach Park. It was successful in every way, and Mr. A. Babcock, president of the club, and one of its promoters, feels quite encouraged.

S. M. Pentecost is building two new houses 20x100 ft. Poinsettias and Boston ferns are among his best specialties.

Wurmbeck and Femeugle have opened up a pretty store at 4909 Central avenue.

Fred Moritz, 62 Edmunds St., is putting up a complete new range of houses. The old houses were the property of D. Livingston.

This fall promises to show an increase in the bulb trade; early orders are all in and stock arriving shows good size.

Col. W. W. Castle of Boston was a visitor at his old home in Cleveland after the Dayton convention.

Harry Bayersdorfer was one of the few Philadelphians who stayed at home convention week. He did double duty looking after arriving shipments and getting off orders. He reports business unusually good which is no doubt attributable to the fine line of novelties and staple supplies he brought with him from the other side as well as to the energetic policy of the house in "keeping everlastingly at it."

ARTHUR COWEE
GLADIOLUS SPECIALIST

Meadowvale Farm

BERLIN, N. Y.

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The Best Mixtures, Collections and Named Varieties in Existence.

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MY GIANT CYCLAMEN

ARE AHEAD IN GROWTH AND FLOWERS

Bloodred, Carmine, Pink, Purewhite, White with Carmine Eye.

Each color separate. Tr. Pkt. \$1.00, 1000 seeds, \$6.00. An even mixture of the above 5 colors, Tr. Pkt. 75c.; 1000 seeds, \$5.00.

Silver Leaved New Hybrids

With semi-double flowers. Tr. Pkt. \$1.00, 1000 seeds, \$10.00.

Snowball

New, the real purewhite and largest in existence. Tr. Pkt. \$1.00, 1000 seeds, \$15.00.

For larger quantities, Special Quotations
O. V. ZANGEN, Seedsman, HOBOKEN, N. J.

LADY GAY

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HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Peonies. Hollyhocks and Phlox.

Catalogue mailed on request.

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WOODS HOLE, MASS.

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Growers of D. N. Van Sion, S. N. Golden Spur, Peonies Duchesse de Nemours, Festiva Maxima, Marie Lemoine (Calot), Canary, Lady Leonora Bramwell, Mons. Charles Leveque (award of Merit London 1906), Spirea Gladstone, Superbe, etc.

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All kinds of Vegetable Plants. Best Plants, Lowest Prices. Can ship direct by all express companies insuring low express rates. Write for Prices. Send list of your needs to Vegetable Plants and we will give you special or prices

PLAINFIELD NURSERY, Plainfield, Indiana

POINSETTIAS

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1790-1810 E. 101st St., CLEVELAND, O.

HIBISCUS SYRIACUS MEEHANII

WE now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sun scalds or reverts to the green; flowers single, very large, satiny lavender; blooms during four months; prices on application. Orders booked now. Catalogues free.

P. J. BERCKMANS CO., Inc., Fruitland Nurseries
AUGUSTA, GA.

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BAGSHOT, ENGLAND

have the finest stock of recognized Hardy Rhododendrons, Azaleas, Andromedas, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

John Waterer & Sons are the great exhibitors of Rhododendrons in London.

BEGONIAS, "Gloire de Lorraine" and "Turnford Hall", very strong, 2 1/2 inch pots, \$15.00 per 100; 3 inch, \$25.00 per 100; 4 inch, \$40.00 per 100

PANDANUS VEITCHII, 12 to 14 inches high from top of soil, \$75.00 per 100

" " 18 " 24 " " " " " " " \$100.00 "

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ADIANTUM FARLEYENSE, fine specimens . . \$1.00, \$1.50 to \$2.00 each

" " 2 1/2 inch, fine stuff . . . \$15.00 per 100

Cash with order from unknown correspondents. Good value guaranteed.

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McHenry Avenue - Westwood - Cincinnati, O.

KOSTER'S BLUE SPRUCE

Perfect specimens, 5 to 9 feet high, transplanted; write for prices

J. H. TROY, New Rochelle, N. Y.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

PEONIES.

Queen Victoria (the cold storage flower) \$9.00 per 100. Festiva Maxima, \$40.00 per 100. Fragrans (the bloom producer), \$6.00 per 100. For 1000 rates or other varieties, write.

GILBERT H. WILD,
SARGOXIE, MO.

DAHLIAS.

Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,
Successors to L. K. Peacock, Inc.
ATCO, N.J.

Extra Celestial Peppers

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Seed Trade

The rumor reported in these columns some weeks ago, that Prof. Pieters of the Dept. of Agriculture was soon to sever his connection with the Dept., to engage in seed growing in California, proves to have been well founded. Prof. Pieters leaves the Dept. Oct. 1st., and will locate in the Santa Clara Valley. Having made many trips to the Pacific coast, and inspected the several seed growing establishments and their methods, Prof. Pieters has reached the conclusion that there is need of improvement in the methods employed, and believes he can better existing types, and bring them to an all round higher degree of perfection. The names of those engaged with Prof. Pieters will be given shortly. His aim is laudable and it is hoped he may succeed. Any one whose aim is to improve existing conditions and raise the standard a little higher should be given the glad hand of encouragement. If Prof. Pieters is really able to produce better types than his competitors they will in time be compelled to follow his example, and thus he will prove a genuine benefactor. The kind of encouragement he most needs is in the form of orders for seeds, but before he can reasonably hope for much business, he will have to demonstrate that he has the goods he claims.

The past few weeks have not been favorable for vine seed crops, weather generally being too dry, and this has developed many insects which have preyed on the vines. One report says the average on cucumbers in the west will not exceed 25 per cent, to 40 per

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cent., while squashes and musk melons will not be much better. In Washington County, N. Y., where many thousands of pounds of cucumber seed is grown, the crop will not be above 50 per cent. and may be much less. This seed is used by the very particular trade, and is generally conceded to be greatly superior to the western grown seed, the difference being about the same as between eastern and western-grown sugar corn. Of course it costs slightly more, but "there's a reason." Beans are nearing maturity, and there will be no famine in them this year. Boston can heave a sigh of relief and now turn its attention to less important matters.

Peas are all harvested, and while definite information is not obtainable just now, crops have quite generally been disappointing, and unless present appearances are misleading, will not be any more abundant than last year, possibly less, with prospects of an equally good demand. No doubt prices will reach fully as high a level as last year particularly on canners' varieties.

Further information concerning crops will be given in next issue.

Hjalmar Hartmann of Copenhagen, Denmark, wholesale grower of Danish cauliflower and cabbage seed arrived last week in New York to look after his customers on this side of the Atlantic and for new trade. Mr. Hartmann's extensive seed farms are situated near Copenhagen where visitors



HJALMAR HARTMANN are always welcome and gladly shown around. He travels extensively over Europe, where he supplies the principal seed houses and has also built up quite a trade on this side. He has also found it profitable to buy some of our specialties in the bulb line, such as gladioli, cannas, tuberoses, etc., for which he finds a good demand in Europe.

AMERICAN SEED TRADE ASSOCIATION.

The 24th annual report of this association has been received. It is a

volume of 108 pages. A portrait of W. H. Grenell forms the frontispiece. It gives in full the papers, reports, discussions, etc., at the Toledo convention on June 26, 27, and 28. The American Seed Trade Association is doing good work, especially through its very efficient system of special committees.

AN EXPERIMENTAL RURAL PARCELS POST.

"To test the practicability of eliminating the postal deficiency by means of an efficient rural service, the Postal Progress League represented by its secretary, Jas. L. Cowles, proposes that an appropriation of \$25,000 be made for the establishment and support during the coming fiscal year of an experimental local rural post on the following conditions: All mail collected and delivered within the limits of the rural routes on which this experimental service is established shall be in one class, and shall be carried from door to door at the following rates:

- "Parcels up to one pound, one cent.
- "Parcels over one pound up to eleven pounds, five cents.
- "Parcels over eleven pounds up to thirty pounds, ten cents.
- "Parcels over thirty pounds up to sixty pounds, fifteen cents.
- "Parcels over sixty pounds up to one hundred pounds, twenty cents.
- "Parcels over one hundred pounds, up to two hundred pounds, twenty-five cents.
- "Passengers, ten cents per trip."

A VALUABLE REPORT ON SOIL FERTILITY.

George C. Butz, horticulturist of the Pennsylvania State College Experiment Station, reports that the Moore method of distributing the legume bacteria in a dry state on absorbent cotton has not proved a success, after a careful test. This finding is in line with that of the New York Agricultural Experiment Station at Geneva, which made a strong adverse report last year on Dr. Moore's method as handled by the Nitro Culture Co. The bulletin, which is of interest to every florist and student of soil flexibility, can be had by addressing "Director of Experiment Station, State College, Center County, Pa."



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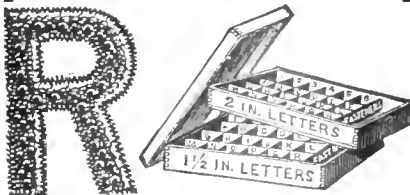
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	CHICAGO September 4	ST. LOUIS August 13	PHILA. September 10	BOSTON September 13
ROSES				
Am. Beauty, Fan. & Sp. ....	..... to 40.00	15.00 to 20.00	20.00 to 25.00	16.00 to 25.00
" Extra.....	30.00 to 35.00	10.00 to 12.50	12.00 to 15.00	8.00 to 12.00
" No. 1.....	15.00 to 25.00	6.00 to 8.00	8.00 to 10.00	4.00 to 6.00
" Lower grades.....	5.00 to 10.00	3.00 to 5.00	3.00 to 5.00	1.00 to 2.00
Bride & 'Maid—Fan. & Sp.....	5.00 to 6.00	3.00 to 4.00	4.00 to 6.00	3.00 to 6.00
" Ordinary.....	3.00 to 4.00	..... to 2.00	2.00 to 3.00	.50 to 2.00
Golden Gate, Fancy.....	5.00 to 6.00	3.00 to 4.00	4.00 to 6.00	3.00 to 4.00
" Ordinary.....	3.00 to 4.00	..... to 2.00	2.00 to 3.00	.50 to 1.00
Liberty, Fancy.....	5.00 to 6.00	3.00 to 5.00	6.00 to	3.00 to 6.00
" Ordinary.....	3.00 to 4.00	..... to 2.00	2.00 to 4.00	.50 to 2.00
Richmond, Fancy.....	5.00 to 6.00	3.00 to 5.00	6.00 to	3.00 to 6.00
" Ordinary.....	3.00 to 4.00	..... to 2.00	2.00 to 4.00	.50 to 2.00
Kaiserin, Carnot, Chatenay, Fancy.....	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	3.00 to 6.00
" Ordinary.....	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00	.50 to 3.00
CARNATIONS				
Fancy.....	..... to 2.00	1.00 to 1.50	1.50 to 2.00	1.00 to 1.50
Ordinary.....	1.00 to 1.00	.50 to 1.00	1.00 to .....	.75 to 1.00
MISCELLANEOUS				
Cattleyas.....	50.00 to 60.00	..... to	75.00 to	30.00 to 50.00
Lilies.....	10.00 to 12.00	..... to	12.50 to	5.00 to 8.00
Gladoli.....	3.00 to 5.00	1.00 to 1.50	3.00 to	1.00 to 3.00
Asters.....	.50 to 3.00	.0 to 5.00	.75 to 3.00	.20 to 1.25
Lily of the Valley.....	3.00 to 4.00	..... to 3.00	2.00 to 4.00	2.00 to 4.00
Dahlias.....	..... to .....	..... to	1.00 to 2.00	..... to
Tuberones.....	..... to .....	..... to	3.00 to .....	..... to
Mignonette.....	2.00 to 5.00	..... to .....	..... to	1.00 to 2.00
Adiantum Cuneatum.....	.75 to 1.00	1.00 to 1.25	1.00 to .....	.50 to 1.00
" Croweanum.....	1.00 to 1.50	..... to	1.50 to	1.00 to 1.50
Smilax.....	10.00 to 15.00	..... to 12.50	12.00 to 15.00	12.00 to 16.00
Asparagus Plumosus, strigis.....	40.00 to 50.00	25.00 to 40.00	35.00 to 50.00 to 50.00
" " & Sprengeri bunches	35.00 to 50.00	25.00 to 50.00	35.00 to 50.00	20.00 to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON The market is overstocked on all lines this week. This is not unexpected, as it is never strong during the middle of September, and dealers are glad to take whatever business comes their way at available figures. Prices are very unsteady in consequence, and the higher rates quoted are for stock of especially select quality only, of which there is only a limited quantity within reach.

BUFFALO The past week found the market pretty well overstocked on some lines but business was brisk. On Monday good demands were had on everything in the line of flowers but toward end of week the receipts were heavy especially roses of short quality, asters and mixed lots of gladioli came in abundant supply and were hard to move. Several fall openings are looked for in short time and it is hoped the market will be relieved of some surplus. All in all the week's business being quite satisfactory to all.

CHICAGO Evidences of returning activity are seen on all sides. Windows and interiors are more pretentiously dressed in the retail establishments and the bustle in and around the wholesale Rialto is unmistakable. Stock is improving in some lines, notably American Beauty roses, but the quantity of product more than keeps pace with the improvement in the demand. Of the tea roses there are some well colored cuts, but the majority are still under size and slender. Asters are too plentiful, and are seen in all grades from excellent down to rubbish. Carnations are still far from the fancy mark. Gladioli are seen everywhere in immense quantities. Some good dahlias are coming in.

CLEVELAND The quality of stock put on the cut flower market now is showing signs of improvement. It is

readily bought up, and those who purchase sustain no losses as there is plenty of demand. Prices are good and as the quality improves prices will go higher.

COLUMBUS Business at last shows signs of returning briskness. While the attraction of the Ohio State Fair as a rule makes trade dull with our florists, the past week has been a very good one with all the craft. At last stock is coming of much better quality, and it is a great relief. Roses are of better color, some American Beauties being especially fine; carnations have also improved. Asters are in enormous supply, and as might be expected very fine in quality; it is the custom here to sell out-door flowers at the various city markets, and good asters are selling there at 5 cents a dozen. The fall bulb catalogues are out, and the Holland bulbs will now be here any day, when a good autumn trade is assured.

LOUISVILLE Business conditions last week were pretty fair, although there was nothing exceptional going on. Carnations can be had in fair quantities with a slow demand. Asters sell better, and can be had in satisfactory quantities. Roses are very good in quality and demand. The supply is up to expectations. Lilies and other stock can be had in adequate quantities, with the demand averaging fair.

NEW YORK The market shows but slight activity and values remain as quoted last week. All outdoor products are abundant and crowd the choicer crops to the wall just now. Quality is not high on any line of either class, but improvement is noted on some things, notably the colored roses and carnations. The "first chrysanthemum" and "first bunch of violets" shouter is beginning to crop up here and there.

During Recess

BUFFALO FLORISTS' CLUB.

The annual outing of the Buffalo Florists' Club which was held at Fort Erie on Sept. 5th, was a decided success. The day was an ideal one again, thanks to the weather man. The program consisted of many events, which began soon upon arrival. The ball game between East and West Side was won by the latter with score 10 to 4. Louis Nembeck and S. A. Anderson made their marks, and sensational plays were galore. Much interest was taken in the game and fair decisions by umpire Kasting. In the ladies' race valuable prizes were awarded. The winners were Miss Scheager, Miss Mark and Miss Satter. The 100-yds. open handicap was won by Jimmie Longley; Baumgarner, second; Walter, third. The lineup had a dozen well-bred runners.

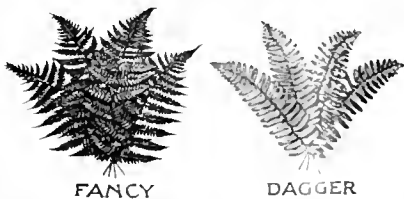
Much interest was taken in the boys' race. A good bunch of youngsters lined up, and it must be said that they were much faster and developed more speed than when delivering fast calls. R. Klockon, first; Griffin, second; Buxen, third.

Event No. 1, running hop, skip and jump was won by D. Scott, first; Wm. Griever, second; Baumgarner, third; Longley, fourth. The three-legged race was very exciting and certainly worth going a long way to witness, ten entries being secured, and the winners were Griever-Walters, first; Ray-Wiese, second; Longley-Zimmerman, third.

Eight entries for one-half mile open which was won by Longley, first; Baumgarner, second; Zimmerman, third; Walter, fourth, and the balance also ran. Hop race, Baumgarner, first; Longley, second; Walters, third.

To hold the crowd the old man's race was held last. Several had entered who felt as if they were over fifty, but starter Kasting protested, and they were ushered away by peace keeper Forbach. The winner was E. B. Sage, while McCarthy a few inches behind was second, and Wm. Ehman, third. W. A. Newbigging and others also ran. Refreshments were served on the grounds.

The dinner was called at 6 P. M. at the Island Hotel. At head of table sat Wm. F. Kasting, as master of ceremonies, and speeches were heard from Wm. Scott, Pres. Nembeck and others, and at the close the prizes were distributed to the lucky winners. The dance hall being closed, the young people enjoyed themselves at the roller rink, while the older ones took advantage at the figure-eight and riding pavilion. The committee is again to be congratulated for making this a well-attended and most enjoyable outing.



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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Sep. 8 1906	First Half of Week beginning Sep. 10 1906		Last Half of Week ending Sep. 8 1906	First Half of Week beginning Sep. 10 1906
Roses					
Am. Beauty, fan and sp.	15.00 to 20.00	15.00 to 20.00	Carnations, Fancy	1.00 to 1.50	1.00 to 1.50
" extra	8.00 to 12.00	8.00 to 12.00	Carnations, Ordinary .....	.50 to .75	.50 to .75
" No. 1	4.00 to 6.00	4.00 to 6.00	Cattleyas	25.00 to 50.00	25.00 to 50.00
" Lower grades	1.00 to 2.00	1.00 to 2.00	Lilies	4.00 to 6.00	4.00 to 6.00
Bride & 'Maid, fan and sp.	2.00 to 4.00	2.00 to 4.00	Gладиол .....	.50 to 1.00	.50 to 1.00
" Ordinary .....	.25 to 1.00	.25 to 1.00	Asters .....	.15 to 1.00	.15 to 1.00
Golden Gate, fancy.	3.00 to 4.00	3.00 to 4.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
" ordinary .....	.25 to 2.00	.25 to 2.00	Sweet Peas, bunches .....	..... to .....	..... to
Liberty, fancy	4.00 to 6.00	4.00 to 6.00	Mignonette .....	..... to .50	..... to .50
" ordinary .....	.25 to 2.00	.25 to 2.00	Adiantum Cuneatum .....	.25 to .50	.25 to .50
Richmond, fancy.	6.00 to 8.00	6.00 to 8.00	" Crownatum	1.00 to 1.50	1.00 to 1.50
" ordinary .....	.25 to 2.00	.25 to 2.00	Smilax	6.00 to 8.00	6.00 to 8.00
Kaisern, Carnot, Chateauy, fan y.	1.00 to 6.00	1.00 to 6.00	Asparagus Plumosus	10.00 to 25.00	10.00 to 25.00
" " ordinary25 to 2.00	.25 to 2.00	" " & Sprenger, bunches	15.00 to 35.00	15.00 to 35.00

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We manufacture all our
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BEST LINE IN THE COUNTRY

Do not keep your "I" on firms to see them
grow or to see if they are full grown, but
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for the trade. See us at the convention.

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LYRATA, the best substitute for Smilax, \$7.00 per case.

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	CINCINNATI September 11	DETROIT September 3	BUFFALO September 4	PITTSBURG September 11
ROSES				
Am. Beauty, fan and sp.	20.00 to 25.00	20.00 to 30.00	20.00 to 25.00	20.00 to 25.00
" extra	15.00 to 20.00	15.00 to 20.00	12.00 to 20.00	12.00 to 15.00
" No. 1	8.00 to 10.00	6.00 to 8.00	6.00 to 12.00	6.00 to 8.00
" Lower grades	4.00 to 6.00	3.00 to 6.00	3.00 to 6.00	4.00 to 4.00
Bride & 'Maid—Fan, and Sp.	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	4.00 to 5.00
" Ordinary	2.00 to 4.00	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00
Golden Gate, Fancy	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	4.00 to 5.00
" Ordinary	2.00 to 4.00	3.00 to 4.00	3.00 to 5.00	2.00 to 3.00
Liberty, fancy	5.00 to 6.00	4.00 to 6.00	5.00 to 7.00	5.00 to 6.00
" Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Richmond, Fancy	5.00 to 6.00	4.00 to 6.00	6.00 to 7.00	6.00 to 7.00
" Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 6.00	3.00 to 4.00
Kaiserin, Carnot, Chateaux, Fancy	5.00 to 6.00	4.00 to 6.00	6.00 to 7.00	6.00 to 7.00
" Ordinary	3.00 to 4.00	2.00 to 4.00	3.00 to 6.00	3.00 to 4.00
CARNATIONS				
Fancy	1.50 to 2.00	.75 to 1.00	1.50 to 2.00	1.00 to 1.00
Ordinary	.75 to 1.00	.25 to .75	.50 to 1.00	1.00 to 1.00
MISCELLANEOUS				
Cattleyas	5.00 to 10.00	10.00 to 15.00	3.00 to 15.00	12.50 to 15.00
Lilies	2.00 to 3.00	.75 to 2.00	1.00 to 2.00	2.00 to 4.00
Gladioli	1.00 to 2.00	.50 to 2.00	1.00 to 2.00	.50 to 2.00
Asters	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Sweet Peas	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Mignonette	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Adiantum Cuneatum	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
" Crownatum	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax	10.00 to 12.00	12.50 to 15.00	15.00 to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	25.00 to 35.00	25.00 to 35.00	25.00 to 30.00
" " & Sprenger, bunches	35.00 to 50.00	25.00 to 35.00	25.00 to 35.00	30.00 to 50.00

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A. M. Herr, Lancaster, Pa. For page see List of Advertisers. Asparagus Plumosa, 2 1/2 in. pots. Five plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Eric Floral Co., Erie, Pa., or Wm. F. Kastling, 385 Elliott St., Buffalo, N. Y. Asparagus Sprengeri, large, field grown clumps, \$8.00 per 100. H. W. Vase, Hyde Park, Mass.

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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

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Fine collection of Best Peonies. Complete Peony and Phlox Manuals, 25 cents each.
C. S. Harrison's Select Nursery, York, Neb.

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S. N. Pentecost, Cleveland, O.
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Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

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Primula Obs. Grandiflora. 4 in. pots. \$6 per 100. Cash, please. A. Relyea & Son, Poohgkeepsle, N. Y.

PUTTY.

Benj. Hammond, Fishkill on Hudson, N. Y. Twenlow's Old English Glazing Putty. For page see List of Advertisers.

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M. H. Walsh, Woods Hole, Mass. Hardy Roses, H. T. Rosea and Ramblers. For page see List of Advertisers.

E. H. Pye, Upper Nyack, N. Y. For page see List of Advertisers. American Beauties, 2-in., \$55.00; 3-in., \$80.00 1000. Cash. J. Henry Bartram, Lansdowne, Pa.

Rosea. Baby Rambler, the strongest dormant stock in the country. \$25.00 per 100; 2 1-2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

1000 plants grafted Malds. 3 inch pots. fine stock, 2000 plants Richmond, own roots, 3 inch pots, very fine plants. Price \$10.00 per hundred, while they last. Cash with order. Robert Simpson, Clifton, N. J.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass. For page see List of Advertisers.

Joseph Breck & Sons, 51 and 52 N. Market St., Boston, Mass. For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia. For page see List of Advertisers.

J. M. Thorburn & Co., 33 Barclay St., New York. For page see List of Advertisers.

H. P. Mitchell Co., 1018 Market St., Philadelphia, Pa. For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass. Grass Seed Mixtures. For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y. For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y. For page see List of Advertisers.

W. W. Rawson & Co., 5 Union St., Boston. For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany, Es-ab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O. For page see List of Advertisers.

SIEVES AND SCREENS.

Hub Wire Works, 13 Devonshire St., Boston. For page see List of Advertisers.

SMILAX.

J. C. Schmidt Co., Bristol, Pa. For page see List of Advertisers.

E. A. Beaven, Evergreen, Ala. Southern Smilax. For page see List of Advertisers.

SMILAX PLANTS.

R. Killbourn, Clinton, N. Y. For page see List of Advertisers.

SPHAGNUM MOSS.

C. W. Brownell & Co., Walden, N. Y. Peat, Moss and Silver Sand.

SPHAGNUM MOSS—Continued.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIRAEA.

Warnaar & Co., Sassenheim Holland. For page see List of Advertisers.

STEAM TRAP.

E. Hippard, Youngstown, O.

STEVIAS.

Stevia serrata, true, winter blooming, strong bushy, ready to shift, 3 1-2 in. pots. \$5.00 per 100; \$45.00 per 1000. Asparagus Sprengerii, 2 inch, very strong, \$2.50 per 100; \$20.00 per 1000. Dean Ferris, Peeks-kill, N. Y.

VEGETABLE PLANTS.

Plainfield Nursery, Plainfield, Ind. For page see List of Advertisers.

VENTILATING APPARATUS.

Lord & Burnham Co., 1133 Broadway, New York. For page see List of Advertisers.

Pierson U-Bar Co., 1 Madison Sq., N. Y. For page see List of Advertisers.

Hitchings & Co., 1170 Broadway, N. Y. For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y. For page see List of Advertisers.

Weathered Co., 46 and 48 Marlon St., N. Y. For page see List of Advertisers.

Foley Mfg. Co., 471 W. 22nd St., Chicago. For page see List of Advertisers.

The Chicago Lifter, J. C. Moulger Co., 421 Hawthorne Ave., Chicago.

VIOLETS.

H. R. Carlton, Wilmoughby, O. Violet, Gov. Herrick. For page see List of Advertisers.

J. C. Schmidt Co., Bristol, Pa. For page see List of Advertisers.

Malcolm Orr, N. Saugus, Mass. Violets, Lady Campbell.

R. Engelman & Son, Pittsfield, Mass. For page see List of Advertisers.

WIREWORK.

Reed & Keller, 122 W. 25th St., New York. For page see List of Advertisers.

Wirework. Write for our catalogue. Holton & Dunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.

Boston.

N. F. McCarthy & Co., 84 Hawley St., Boston. For page see List of Advertisers.

George A. Sutherland Co., 34 Hawley St., Boston. For page see List of Advertisers.

Welch Bros., 15 Province St., Boston. For page see List of Advertisers.

Buffalo.

Wm. F. Kastling, 383-87 Ellicott St., Buffalo, N. Y. For page see List of Advertisers.

Chicago.

J. A. Endlong, 37 Randolph St., Chicago. For page see List of Advertisers.

Chas. W. McKellar, 51 Wabash Av., Chicago. For page see List of Advertisers.

Peter Rehnberg, 51 Wabash Av., Chicago. For page see List of Advertisers.

Detroit.

Michigan Cut Flower Exchange, 38 & 40 Miami Av. Wm. Dilger, mgr. For page see List of Advertisers.

New York.

J. K. Allen, 106 W. 25th St., New York. For page see List of Advertisers.

Wm. Stuart Allen Co., 53 W. 23th St., New York. For page see List of Advertisers.

J. S. Fenrich, 110 W. 25th St., New York. For page see List of Advertisers.

Ford Bros., 48 West 25th St., New York. For page see List of Advertisers.

H. E. Froment, 57 W. 28th St., New York. For page see List of Advertisers.

Alex. J. Guttman, 43 West 28th St. For page see List of Advertisers.

E. C. Horan, 55 West 28th St., New York. For page see List of Advertisers.

Philip F. Kessler, 55 W. 26th St., New York. For page see List of Advertisers.

Julius Lang, 53 West 30th St., New York. For page see List of Advertisers.

WHOLESALE FLORISTS—Continued.
New York.

A. H. Langjahr, 55 W. 28th St., New York. For page see List of Advertisers.

James McManus, 42 W. 28th St., New York. For page see List of Advertisers.

Chas. Millang, 50 West 20th St., New York. For page see List of Advertisers.

Frank Millang, 55-57 W. 26th St., New York. For page see List of Advertisers.

A. Moltz, 55-57 W. 26th St., New York. For page see List of Advertisers.

John I. Raynor, 49 W. 28th St., New York. For page see List of Advertisers.

W. F. Sheridan, 39 W. 28th St., New York. For page see List of Advertisers.

Traendly & Schenck, 44 W. 29th St., New York. For page see List of Advertisers.

Hicks & Crawbuck, Inc., 76 and 78 Court St., Brooklyn, N. Y. For page see List of Advertisers.

Philadelphia.

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa. For page see List of Advertisers.

Leo Nlesson Co., 1217 Arch St., Philadelphia, Pa. For page see List of Advertisers.

S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa. For page see List of Advertisers.

Edward Reid, 1526 Ranstead St., Philadelphia, Pa. For page see List of Advertisers.

Pittsburg.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa. For page see List of Advertisers.

Pittsburg Florists' Exchange, 223 Diamond St., Pittsburg, Pa. For page see List of Advertisers.

New Offers in This Issue.

ANNOUNCEMENT.

Hjalmar Hartman & Co., 31 Barclay St., New York. For page see List of Advertisers.

CARNATIONS, FIELD-GROWN. W. J. & M. S. Vesey, Ft. Wayne, Ind. For page see List of Advertisers.

CELESTIAL PEPPERS. Geo. A. Kuhl, Pekin, Ill. For page see List of Advertisers.

FERNS, RUBBERS, CYCLAMENS, DISH FERNS, ETC. A. M. Davenport, 88 Grove St., Watertown, Mass. For page see List of Advertisers.

GLASS. G. C. Watson, Dobson Bldg., 9th & Market St., Philadelphia. For page see List of Advertisers.

HARDY CUT FERNS, CHRISTMAS TREES, BALED SPRUCE. L. B. Bague, Hinsdale, Mass. For page see List of Advertisers.

HARDY HERBACEOUS PERENNIALS. Bay State Nurseries, 600 Adams St., N. Abington, Mass. For page see List of Advertisers.

PAEONIES. George Hollis, So. Weymouth, Mass. For page see List of Advertisers.

PALMS, POINSETTIAS, BOUVARDIAS. Nanz & Neuner, Louisville, Ky. For page see List of Advertisers.

PLANT AUCTION SALES. Wm. Elliott & Sons, 201 Fulton St., N. Y. For page see List of Advertisers.

SEASONABLE PLANTS, FARLEY-ENSE, LORRAINES, ETC. Henry A. Dreer, Philadelphia. For page see List of Advertisers.

VEGETABLE SEEDS FOR FORCING. W. W. Rawson & Co., 5 Union St., Boston. For page see List of Advertisers.

DREER SPECIAL OFFER OF SEASONABLE PLANTS



DRACAENA GOLDIEANA

DRACAENA GOLDIEANA. A fine lot of this beautiful, always rare variety, 5 inch pots, 10 inches high, \$1.25 each.

ARDISEA CRENULATA, in fruit, plants in five inch pots, \$1.00 each.

PANDANUS VEITCHII. A nice lot of specimen plants. 6 inch pots, well furnished, 18 to 20 inches high, \$1.00 each; 7 inch pots, well furnished, 22 to 24 inches high, \$1.50 each.

NEPHROLEPIS WHITMANI. The most distinct and desirable of the crested forms of the Boston Fern; its great points of merit are that it never reverts or never shows plain fronds or part of fronds; it naturally makes a shapely compact plant, it is more graceful than any of the other sorts and is a quick grower. We offer strong 2 1/2 inch pots at \$3.50 per dozen, \$25.00 per 100; 3 inch pots, \$4.00 per dozen, \$30.00 per 100; and fine plants in 6 inch pots at \$1.00 each.

NEPHROLEPIS SCOTTII. A grand lot of bushy, shapely, compact plants in 6 inch pots, 50 cts.; 8 inch pans, \$1.00; and 12 inch pans, \$2.00 each.

ADRIANTUM FARLEYENSE. A magnificent lot of specimen plants in 7 inch pots, \$1.50 each, also a lot of clean, vigorous, 3 inch pots for growing on, \$2.00 per dozen, \$15.00 per 100.

BEGONIA GLOIRE DE LORRAINE, 3 inch pots, \$3.00 per dozen; \$20.00 per 100.

BABY RAMBLER ROSES, pot grown stock, suitable for Christmas forcing, 5 inch pots, \$3.50 per dozen, \$25.00 per 100; 4 inch pots, \$2.00 per dozen, \$15.00 per 100.

HENRY A. DREER, 714 Chestnut St., Philadelphia

A GOOD FERTILIZER.

An analysis of Blachford's Plant Grower and Land Renovator, which is advertised in our Business Directory on page 298, gives the following components: Total Nitrogen, 5.00 per cent.; soluble Potash, 6.00 per cent.; available Phosphorous Acid, 5.25 per cent.; soluble Potassium, 5.00 per cent.; available Phosphorous, 2.25 per cent.; total Phosphorous, 4.50 per cent.; total Phosphorous Acid, 10.50 per cent.

These proportions, being guaranteed by the manufacturer, tell the story of the value of this fertilizer, and, in the quantity recommended for greenhouse benches, 30 lbs. to 50 square feet of bench soil, it should give results that would quickly place it in the list of indispensables.

The Kentucky Society of Florists held the regular meeting Tuesday night at Aug. R. Banmer's store, Louisville.

Thorburn's Bulbs

Hyacinths, Tulips, Narcissus, Crocus, Lilies and all other Bulbs for Florists

Send for our Wholesale Florists' Bulb List Now Ready.
J. M. THORBURN & CO.
33 Barclay St., through to 38 Park Place
NEW YORK

NEWS NOTES.

The Colonial Flower Shop, 304 S. Main street, Goshen, Ind., is a new claimant for favor.

Winthrop L. Lewis of Marlboro, Mass., will open a flower store in Boston at an early date.

Miss Dora Brown has started in the florist business in the Mehnert room, North Main street, Goshen, Ind.

Prof. Frank W. Rane of New Hampshire has been nominated by Gov. Guild as state forester for Massachusetts.

R. W. Barrows has taken the greenhouses of Hale & Barten, Meriden, Conn., and is making extensive improvements.

Messrs. Bryant and Arp, who recently purchased the business of Nichols & Lorton at Davenport, Iowa, have taken out papers of incorporation as The Davenport Nursery Co., with a capital of \$25,000. The business of H. G. Bryant is also included.

The two flower markets in Boston have had their annual auction sale of choice of stalls, the amount of premiums realized being about \$3,000 in each instance, an advance in the aggregate over last year's sales. Stall holders are not paying the high premiums they did a year or two ago for first choice, as between the two establishments, there are stalls enough for all who wish, but the average amount of premiums holds up well.

After a six years' engagement with Hon. E. S. Draper, Thos. Heskey has started as a commercial florist at Grafton, Mass. He has two large modern houses in which are planted over 6,000 carnations in admirable condition. If Mr. Heskey's health will permit, with his energy and thorough knowledge and the assistance of his two sons, both of whom seem to have been born with their father's love for the profession, a prosperous future seems assured.

INCORPORATED.

The Davenport Nursery Co., Davenport Ia

GLASS FOR SALE

We have for sale a quantity of A and B double thick New Jersey hand made, all of which runs especially uniform in quality and thickness. Terms reasonable to people of first class credit. Inquiries solicited.

ATCO GLASS WORKS
G. C. WATSON, General Agent
9th and Market Sts., PHILADELPHIA

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—As private gardener on place where there is a range of greenhouses. Best of references. Over 7 years in last place. Expert rose grower. Married. Address J. J., care HORTICULTURE.

STEAM BOILER Upright, 10 h. p., good condition, \$40; also 20 1/4 in. gate valve and lot of pipe hangers and fittings. J. A. De Mar, Bryantville, Mass.

WANTED—Man for store; must have had wide experience in designing and decorating; accustomed to waiting upon high class trade and well recommended. Steady position and good salary to right person. Give full particulars with application and state salary expected. Randolph & McClellan, 104 Highland Ave. and B. Main St., Pittsburg, Pa.

WANTED—Medium sized second hand gas or oil boiler. H. W. Vose, Hyde Park, Mass.

GREENHOUSE MATERIAL

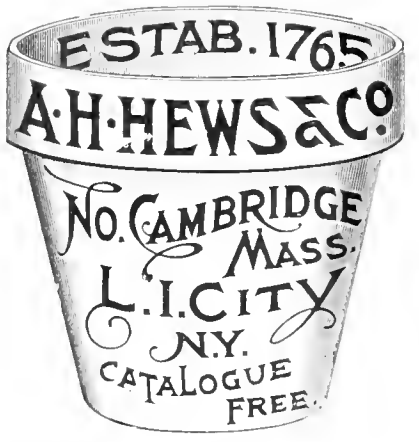
OF ALL KINDS

FOLEY MFG. CO. 471 W. 22ND ST. CHICAGO

VENTILATING APPARATUS PURLIN FITTINGS, HOT-BED SASH & C.

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If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.
FOLEY MANUFACTURING COMPANY, 471 W. 22d Street, Chicago.



STANDARD FLOWER POTS
 Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 1/4 in. pots in crate	\$4.88	120 7 in. pots 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. pots 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 " " "	.16	12 14 " " "	4.80
		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. August Bolker & Sons, Agts., 31 Barclay St., N. Y. City.

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**SCOLLAY HOT WATER
 and STEAM BOILERS**
JOHN A. SCOLLAY
 73 and 75 Myrtle Avenue
 BOROUGH OF BROOKLYN, N. Y. CITY

Anything of Value
 to the profession
CAN BE SOLD
 through advertising in
Horticulture


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13 Devonshire Street

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FOR
 Loam, Gravel and Ashes, 25c. to \$5.50

Garden Arches and Trellises to Order



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Manufacturers, Importers and Jobbers
 AMERICAN AND FRENCH GREENHOUSE GLASS
 26-30 Sudbury Street
 61-63 Portland Street
BOSTON, MASS.

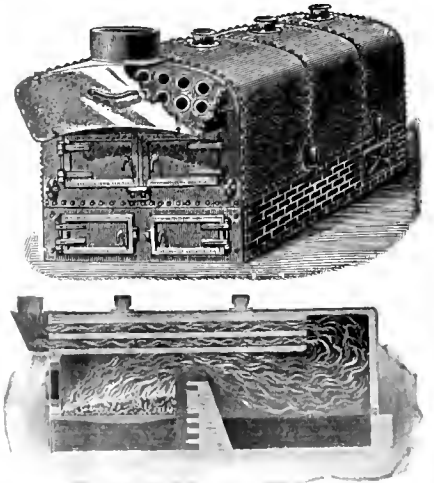
CYPRESS SASH BARS
 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
 ERECTED AND EQUIPPED COMPLETE IF DESIRED
 Write for Circular "D" and Prices
The A. T. STEARNS LUMBER CO.
 NEPONSET, BOSTON, MASS.



**GREENHOUSE CONSTRUCTION
 LUMBER**
 John C. Moninger Co.
 117 E. Blackhawk St., CHICAGO

Kroeschell Bros. Co.
 IMPROVED
Greenhouse Boiler,
 35 Erie Street. CHICAGO.



Boilers made of the best material; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.
**NOW IS THE TIME TO INSURE
 YOUR GLASS AGAINST DAMAGE
 BY HAIL.** For particulars address
John G. Esler, Saddle River, N. J.

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(PATENTED)

For Glazing Greenhouses

Manufactured only by

F. O. PIERCE COMPANY

170 Fulton Street, New York

Agencies in all the Principal Cities of the United States and Canada

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JOSEPH BRECK & SONS

BOSTON, MASS.

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Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

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PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

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MOREHEAD TRAP

Condensation in Steam Pipes promptly Returned to the Boilers which may be located above or below coils.

WRITE FOR FLORISTS' BOOKLET

Morehead Mfg. Co.

1045 GRAND RIVER AVE., DETROIT, MICH.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

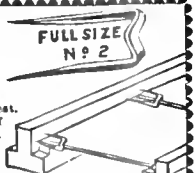
Holds Glass Firmly

See the Point AT

PEERLESS

Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

HENRY A. DHEER,
714 Chestnut St., Phila., Pa.

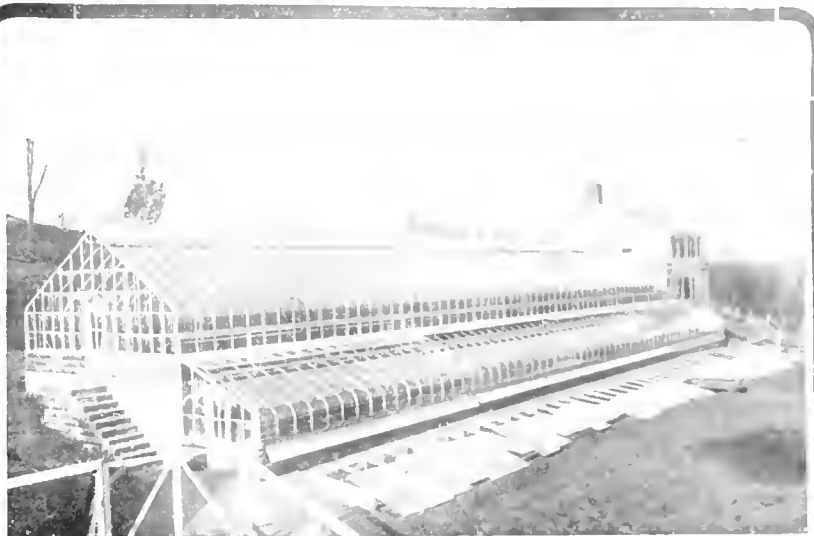


Standard Flower.. POTTS

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

W. H. ERNEST.

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



MORE ABOUT THIS PARTICULAR GREENHOUSE

You'll admit that it looks attractive, even if placed on a side hill and dominated by the gardener's cottage and potting room at the end.

That leanto is objected to by some, because of its exposure to snow slides — but last winter not a pane of glass was broken. If you want such a leanto, there's no construction that makes as good a one as the U-Bar.

AS GOOD BECAUSE

you can't have as much light by a third with another construction—and the whole success of the growing question is based on the amount of light.

PIERSON U-BAR COMPANY

Designers and Builders

U-BAR GREENHOUSES

Metropolitan Bldg., 4th Ave. and 23rd St.
NEW YORK

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE, 111 FIFTH AVE. 74 FRANKLIN ST. BOSTON

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR PEARL.

Indestructible Green House Bench

(Built under the Full Patent)

This indestructible construction consists of cement, gravel and iron reinforcement. A cement bench lasts a life time, and can be moved any time and anywhere. All work is done by hand and can reach every part. Strongly and fully tested with lead and other materials. For greenhouses, benches, etc., we gladly furnish a complete set of plans, and the benches are built with the best materials. Manufacture by



WM. F. KASTING,

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BUFFALO, N. Y.

Sole Owner of Patent

H AND C



You Know There Are Times

when just because a firm has certain indisputable good things, you are practically compelled to buy of them no matter how unhealthy your feelings may be for their way of doing business --Hitchings & Company are in a position to furnish you with all that's thoroughly practical and tried for greenhouses whether it be in construction or heating apparatus—and you'll have pleasant dealing.

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GREENHOUSE DESIGNERS AND BUILDERS.

Manufacturers of Heating and Ventilating Apparatus.

1170 Broadway, NEW YORK.

H AND C



AT THE VERY START

of a "Burnham" Boiler we commence testing and keep on testing until it leaves the shop.

First, every section is tested separately under high pressure.

That means no weak spot, sand-holes or cracks will develop when the "Burnham" is set to work — you can depend on depending on it

Lord & Burnham Co.

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Boston Branch: 219 Tremont Building



T W E M L O W ' S

Old English

Liquid and

For Bedding Glass in
Sash or for Filling
Cracks or Seams



Glazing Putty

Elastic

In Roof Joints or
Frames of Green-
houses or Hotbeds.

It is used in Machine or Bulb. If too thick for bulb thin with a little Pure Linseed Oil, boiled. So thinned, it can be brushed into any crack or leak, making a solid filling. It makes a solid bed, impervious to moisture, and holds glass in its place, and will stop any crevice or fault. When once set on dry wood it does not heave. As regards the goods, the article is **no new invention**, but simply an article of the very best class, to do thoroughly good work, like old time gentlemen expected when sashes were made with lead, and small panes of glass used that caught the water and leaked unless set with an **elastic putty** which once set by a mechanic was expected to remain, and did remain in good shape. This Twemlow's Old English Glazing Putty does; nothing more, nothing less. **SOLD BY THE FLORISTS' SUPPLY HOUSES.**

Manufactured in the United States only by

HAMMOND'S PAINT AND SLUG SHOT WORKS, FISHKILL-ON-THE-HUDSON
NEW YORK

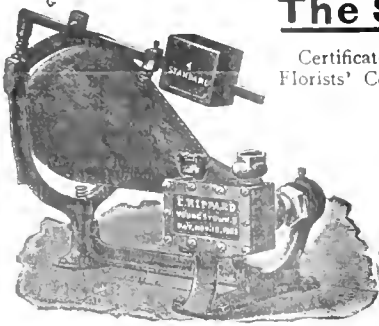
The Standard Steam Trap

Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

E. HIPPARD, Youngstown, Ohio



In a Premier Greenhouse—

all good points are combined. There's durability, artistic appearance, ease of erection — and — ease of RE-erection.

It's a better house than is usually built; the price is ONE THIRD of that usually charged.

Send for booklet No. G-38.

Chas. H. Manley,

Premier Mfg. Works, St. Johns, Mich.

WEATHERED COMPANY

BOX 789, NEW YORK

GREENHOUSE BUILDING AND HEATING

Send for Catalogue.

HORTICULTURE

Vol. IV.

SEPTEMBER 22, 1906

No. 12



THE FAIRHAR ROSE
in the garden of Mr. Henry S. Hurme, W. W. Mass.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

NOW READY

NARCISSUS PAPER WHITE GRANDIFLORA and WHITE ROMAN HYACINTHS

We offer the finest bulbs for immediate delivery as follows:

Narcissus Paper White Grandiflora. finest quality bulbs, 13 c/m and up, 1,250 bulbs to the case, \$11.25 per case; less quantities at \$1.00 per 100.

Paper White Grandiflora narcissus is always a money-maker. Plant at once for earliest crop, which is the most profitable.

Bermuda Buttercup Oxalls, \$1.00 per 100, \$7.50 per 1000.

White Roman Hyacinths, finest quality bulbs, 12 to 15 c/m, about 1,800 bulbs to the case, \$2.50 per 100 \$23.00 per 1,000.

Freesia Refracta Alba, finest Bermuda-grown bulbs, 1 1/2 inch up, \$7.50 per 1,000.

Callas, Selected Bulbs, 1 1/2 to 1 3/4 in., in diameter, \$6.00 per 100; mammoth bulbs, 1 3/4 to 2 in. in diameter, \$8.00 per 100; exhibition bulbs, 2 to 2 1/2 in. in diameter, \$10.00 per 100.

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

BEGONIAS, "Gloire de Lorraine" and "Turnford Hall", very strong, 2 1/2 inch pots, \$15.00 per 100; 3 inch, \$25.00 per 100; 4 inch, \$40.00 per 100
PANDANUS VEITCHII, 12 to 14 inches high from top of soil, \$75.00 per 100
 " " 18 " 24 " " " " " " \$100.00 "
 " " 24 " 26 " " " " " " \$150.00 "
ADIANTUM FARLEYENSE, fine specimens . . \$1.00, \$1.50 to \$2.00 each
 " " 2 1/2 inch, fine stuff . . . \$15.00 per 100

Cash with order from unknown correspondents. Good value guaranteed.

J. A. PETERSON

McHenry Avenue - Westwood - Cincinnati, O.

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HORTICULTURE, VOL. 17, NO. 12

SEPTEMBER 22, 1906



HIGH GRADE FANCY PANSIES.

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HORTICULTURE

VOL IV

SEPTEMBER 22, 1906

NO. 12

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British Horticulture

THE SHREWSBURY SHOW

The annual show held at Shrewsbury continues to maintain its premier position. This year's exhibition which took place on August 22nd was on a larger scale than ever. The amount offered in prizes was £1,200, whilst the entries numbered close upon 3000 or 120 more than in 1905. A special feature is made of the groups of miscellaneous plants, and this again proved a very popular section. There were two classes for groups of plants, each restricted to a space of 300 square feet, one being for plants in and out of bloom, and the other for ornamental foliage plants, palms, and ferns. Messrs. Cypher and Sons of Cheltenham, a noted firm of orchid growers, secured the first prize in the first section and the Leanington Nurserymen and Florists, Ltd., for the group of ornamental plants. Originality of arrangement was not very conspicuous in this section. The show of grapes was of a highly meritorious character. The 50-guinea cup and £20 in cash offered for the finest 12 bunches were taken by Lord Hastings, of Melton Constable, whose absolute property the trophy now becomes. The variety Mrs. Pince was shown in a remarkably fine condition, whilst Aluwick seedling was also of a very high order. Some pleasing effects were produced in the section for tables laid as for dessert, the first prize being awarded to the Earl of Harrington, Elvaston Castle, Derby.

THE WINTER FLOWERING CARNATION SOCIETY

A meeting of the committee of the newly-formed Winter Flowering Carnation Society was held at the Hotel Windsor, Westminster, on Tuesday, Aug. 28th. Mr. Hayward Mathias, the energetic secretary, was able to report that a satisfactory progress had been made since the Society's inception, and many of the leading specialists in Great Britain and the Channel Islands have joined. The question of the time and place of the first show was discussed. A favorable offer was received from the Royal Botanic Society giving the use of the Society's ground at Regent's Park, London, for the show. It was decided to accept the offer, and that the show should take place on Tuesday, Dec. 4th. It was felt that this date would be convenient to most of the growers. The schedule was discussed and arranged and a Floral Committee, who will grant certificates to new introductions, was appointed. There is no doubt that a good display of carnations will be brought together, as the number of trade growers who pay attention to this section has largely increased. Some of the American visitors who attended the international conference on plant hybridizing in London recently were very considerably impressed with the high standard of culture which has been attained by the English raisers of carnations. It was certainly a revelation to some of the transatlantic delegates.

ROSE SOILS

The National Rose Society publish a number of very useful books, amongst them being a report on the constitution of rose soils. Some years ago an investigation was undertaken to ascertain, if possible, what, if any, were the particular chemical ingredients in certain soils which enabled rose plants grown in them to produce such an exceptionally large proportion of choice exhibition blooms. With this object in view samples obtained from the principal rose nurseries in the kingdom were submitted to Dr. Bernard Dyer, an eminent au-

thority, for analysis. Dr. Dyer's conclusions were as follows: "I am glad to see, after careful analysis, that the chemical results point to the conclusion that any common bond that may exist between these soils is sought less in their chemical resemblance, or in the presence in any particular of any special ingredient than in their mechanical and physical condition of the soil, and good drainage. Under this head, I need only say that it has been pointed out that all the soils are more or less sandy loams, although they differ in lightness and consistency within somewhat wide limits." The conclusions point to the fact that the essential of success is not so much the soil but good cultivation.

W. G. Adsett.

Small Bush Chrysanthemums

Small bush chrysanthemums grown in 7 or 8-in pots will be found to be the most useful size for conservatory or window decoration and general sale. If they have been planted out in the garden they should now be lifted and potted without any loss of time. A cold frame is an ideal place to set them for the first few days. After being potted they should get one good watering and be allowed to dry out well before given more. Syringe every bright morning and partially shade until they become established.

Plants that have been grown in pots and plunged out of doors should now be housed and placed on a light, airy bench and given all the air possible. Do not crowd them too close together or they will be sure to lose a quantity of their bottom foliage and with the foliage gone so goes half the beauty of the plant. Plants in this size of pots should have from 15 to 20 flowers per plant and should not average more than 20 inches in height. Buds will be coming along every day now and as soon as they can be handled the side shoots and buds should be rubbed out and the centre one allowed to flower. When the buds appear, a little feeding should be resorted to. This can be done much the same as for large blooms. Clay's Fertilizer is a good chemical to use for bush plants. The fill of a 3 1/2-inch pot thoroughly dissolved in 50 gallons of water is about right; it heightens the color of the flower and makes a dark glossy foliage.

As soon as the buds show color it is time to do the staking; of course plants of this size do not require many stakes; the less that can be done with the better, but there should be as many used that, when the plant is finished, every shoot should show to advantage. The neater this part of the work is done so much more will be the reward for the little extra time and care when the plants go to market. Go over the house at least twice every week and pick off all dead or decayed leaves. See that the fumigation is attended to regularly that no insect pest gets a foothold. Guard against rust and mildew. If given the necessary attention by doing the work when it should be done there is no plant that will respond more readily to the care given and give more satisfaction than will the chrysanthemum.

William A. Riggs

Exhibition Pansies

(SEE COLORED SUPPLEMENT WITH THIS ISSUE.)

The pansy is and has always been a most popular and delightful garden flower; nothing in the whole floral kingdom is more extensively employed in spring and early summer decorations in beds, borders, or window boxes; very largely used, also, as a carpet for taller growing things, or as an edging. It also makes a very fine pot-plant. As an exhibition flower it has few if any equals in its class; and where I use up all the space that has been allotted to me, I would call your attention to the splendid flowers shown in the colored supplement of pansies with this issue of HORTICULTURE. Let me describe them to you individually. The upper left-hand flower well represents the Fancy Striped type—elegantly striped, neat, and splashed—a very elegant and striking combination of colors that cannot fail to be greatly admired. The flowers are large and very freely produced; on compact, dwarf growing plants. The bloom in the upper right-hand corner, while of an entirely different class, is none the less attractive and elegant; it is of the Giant Curled type—the flowers of this type of pansy are of large and striking form and immense fulness; in fact, this extra fulness gives them the appearance of being double. The colors are various, but always of the very richest shades, lacings, and markings, and prettily rimbricated quite often. The two center flowers are very good types of the best modern show pansies—these are always richly belted, and the petals largely bloched with solid colors; there is no better type for the exhibition table. The bloom at the bottom suggests the best strains of English blood—the narrower border, setting off superbly the almost completely solid, velvety texture of the petals. All these forms make the very finest exhibition flowers; in fact, they embody all these essential points, that, combined as a whole, go to make an individual pansy, perfect, from a judge's standpoint. An exhibition flower must in the first place be large, at least over 2 1/2 inches in diameter, and at the same time thick and velvety in texture. Again, the bloom must lay flat in the exhibition dish, and show no signs of curling up at the edges. While light colors are of course admissible, still the most expert growers of the present time generally advocate and prefer the dark, velvety shades. To sum up, the expert pansy grower of to-day is continually striving for perfection in these essential points. The individual flowers must be large, and in general shape round, and lie perfectly flat, brilliant in coloring, perfect in form, and of the most splendid substance. Such pansies, as these are always the admiration of the beholder.

Amaryllis Belladonna

This amaryllis is one of the most beautiful of the genus, a native of the Cape, South Africa, from whence so many useful and elegant bulbous plants come. In its varied tints of lighter and deeper pinks, and when well grown, it is unsurpassed for the larger and statelier decorations; used in lavish quantities with suitable greenery to set off the flower spikes it is pretty nigh unapproachable.

It starts to flower in the latter part of August according to treatment, while destitute of foliage, the latter starting after the flowers are gone, when growth actually commences. Its growth is made and completed in late fall to early spring, during which time liberal treatment in the shape of copious watering, including frequent stimulating watering, is essential to ensure good results, other things being equally attended to. Water should be gradually withheld as the leaves show a disposition to turn yellow, and until the point of complete suspension is reached. Much depends on the thoroughness of a long rest as well as the degree of dryness attained and maintained during this rest.

Doubtless they are less common than they would be otherwise for the reason that they make their growth, which is ample in leafage, in the winter season, when they necessarily take up so much valuable room and yield no returns. For nowadays every square foot of greenhouse space is looked to to turn out its quota of floral treasure for a continuous six months at least. In the milder parts of England it does splendidly outside in sheltered nooks or narrow borders adjoining warm plant houses, in which position it increases and flowers abundantly.

They overcome, however, the scruples as to greenhouse space given over to the amaryllis in our fashionable New England watering place—Newport, R. I.,—where the choicest of flowers are appreciated and must be had if possible. There the "Belladonna lily" is grown to perfection in deep frames permanently planted out, sufficient heat being provided by artificial means for the required growing temperature, which is not high. There is nothing about these frames to distinguish them from an ordinary cold frame, other than ample depth to provide for length of foliage, and the securing of a larger body of air space to assist in maintaining an even temperature. This method has the advantage of the English open-air treatment, inasmuch as the bulbs can be started at will and given the essential degree of thorough rest to a nicety by keeping the sashes over them when rain threatens.

M. B. Fayon

H. G. Furber

Bottom Facts About Carnations

AN INTERVIEW WITH EDWARD A. STROUD, OF STRAFFORD, PA.

Reams and reams of talk on the carnation have appeared in the trade papers during the past two years. Much of it has been repetition. Much of it has been hot air. Here and there would be a shining nugget of truth for those of the keen eye; but usually so embedded in a mass of chaff that the ordinary individual was entirely oblivious of its presence. Except after expert has appeared before florists' clubs in every part of the country to tell us all about it, and the general result has been to confirm Tullyrand's famous dictum that "language was invented to conceal thought."

We are glad to have found a man broad-minded enough to tell the plain truth on the matter and willing to give facts and figures to back up his assertions.

Mr. Edward A. Stroud, of Strafford, Pa., is now recognized as one of the leaders in modern commercial carnation culture. He has an extensive establishment of latest construction, and his results, detailed later, are obtained under the most favorable circumstances. A small grower with less complete equipment could never hope to gain the same efficiency per square foot. But here is the touchstone for comparison between a good machine and a poor one, and every one can read, learn and inwardly digest it for himself.

HORTICULTURE is proud to be the first and exclusive medium for giving publicity to these bottom facts in carnation culture, and congratulates its readers in at last being able to give them something really tangible on which they can base their calculations for the future and size up the merits of the leading varieties up to the present moment.

This preface is necessary to enable any one to appreciate the great significance of the following table. Every figure therein is a fact and is worthy of careful study. The subsequent explanatory remarks of Mr. Stroud on the same, if carefully digested, will well repay any really serious student of the problem and do more for the advancement of modern carnation culture than is apparent on the surface:—

commons, where it is impossible to get more than \$1 for bunches. I know an exception to this; for some reason they manage with Prosperity and Enchantress to keep the price up, but with the other fancy varieties at normal times they never reach a much higher level than \$1.00 per 100. The reason for this is that the retail dealer cannot ask over \$1.00 per dozen in average times, and only the best places even then, while numbers of the smaller stores can get only 50 and 75 cents per dozen. But I would not by any means advocate the growing of commons entirely. Lawson finished poorly this year, but was hard the year before. This, however, is not at all fair to the variety because it did poorly with us at planting and was a long time getting under way. The poor showing of Lieut. Peary is explained by its having been propagated heavily for cuttings. I would advise the specialist to grow a fancy and common in each color, and particularly white. For the smaller grower who has a couple of houses, and is consigning, I would advise growing but one or two varieties. To the private grower who is limited for space, I would advise growing the freest bloomer, or a good white and Enchantress, which is the freest and best blooming fancy." FIELD CULTURE VS. INSIDE CULTURE.

There has been a warm controversy for years on the comparative merits of outside and inside culture. One year the best growers would say yes, the next year no, and so the thing has been going until most every one was a law unto himself. But out of this chaos of opinion and counter opinion there has gradually evolved a few well settled facts, and the digest of same cannot be better stated than in Mr. Stroud's own words:

"This year's experience in growing carnations out-of-doors has entirely changed my ideas. I am now convinced that more certain results can be obtained through indoor culture. Last year our loss outdoors was practically nothing; the plants got away nicely and were soon at work, but after the last rainy summer my loss

indoor and New York. I have had our very best plants in the field planted at home and they have again to field culture. I have tried to get around this by propagating in January and February, and the same until I get the plants in pots. In order to get the plants to start, I will plunge them in water, which will tend to keep them moist, and moisture, also, keep them from being proven the plants propagated in the field. This will proceed after growing out some of the old plants in order to make room for these four inch pots. The "man behind the hose" is a great factor in indoor cultivation, for I feel the plunging will greatly eliminate the danger. Another great point is that it will be away with the great rush which always occurs when planting from the field; it will also eliminate to a great extent the summer shading, and work will proceed more surely and results will be more certain. It is a sad blow to pay out \$100 per 1000 for new varieties, and only lift, say, one-half, or even less at times. The field plants make a quick unnatural growth, and while they are sometimes large and beautiful to behold, they are really what I might term "water logged."

"The great advance in the cultivation of the carnation requires advanced treatment, especially for the specialist. Of course some years the field plants may get under way quicker; but take as an example A buys 1000 of a new variety and benches 990 by indoor cultivation; B buys 1000 of the same variety and benches 600 plants by field culture much finer plants and somewhat in advance of A. I will leave it to your own judgment which is the best. I consider A the best.

"The market for carnations really does not open until, I might say, Thanksgiving Day. With the great improvement in asters, dahlias, chrysanthemums, these have their turn, and we must wait and get our carnations at their best. What we mean by carnations at their best is quantity and quality at a time when good prices can be got for them. The foregoing are only my own views and have not been thoroughly tested, but I intend to follow out the same the coming year."

That winds up Mr. Stroud's remarks. In conclusion I think it well to mention that the statistics and opinions above recorded were given the writer by Mr. Stroud only after much thought on his part and some pressure on mine. He being a very modest gentleman, was extremely afraid someone might misconstrue and take advantage of such open and candid statements. But a man's reasoning and discussion with facts truly has finally convinced Mr. Stroud the progress and advancement of the business is a consideration for which we should all sacrifice something.

MR. STROUD'S STATISTICS—SEASON OF 1905-06.

NUMBER FLOWERS CUT EACH MONTH PER SQUARE FOOT

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Total
Enchantress	3.09	1.6	1.75	2.7	2.3	4.4	4.9	3.5	6.1	2.7	30.8
Gov. Bliss	3.3	1.7	2.7	2.5	2.7	5.1	3	3.5	6.9	2.9	35.4
M. A. Patten	1.6	.7	.8	1.8	1.7	2.4	2	4.7	9.3	1.5	26.5
Lawson	1.5	.95	1.3	2.2	3.	4.5	3	2.5	6.7	1.3	25.5
Ethel Ward	1.4	1.4	1.4	2.8	2.	4	6.	3.5	7.5	1.7	32.5
Lieut. Peary	1.2	1.4	1.7	1.2	1.4	2.3	1.8	3	3.5	1.9	18.5
Flamingo	1.5	1.3	1.5	1.4	2.1	3.2	2	7.	13.7		33.7
May Naylor	1.0	.8	1.1	1.8	1.5	2.	4.6	5.8	8.6	3.3	39.5
Genevieve Lord	1.7	1.3	1.8	2.3	1.9	3.	3.	3.	9.8	1.5	31.1
Lady Bountiful	1.9	.8	1.4	2.3	2.1	2.5	4.9	2.7	2.9	1.7	22.1
My Maryland			1.1	1.4	2.6	1.9	3.	3.	3.		11.5
Crane	1.98	2.28	2.	2.6	1.7	2.4					11.5
Harry Feun	1.7	1.8	1.7	2.3	1.7	3.	4	5.9	8.5	2.8	33.2
Prosperity	1.1	0.7	.7	.7	.6	.6	1.8	4.9	6.7	2.9	28.8
Cardinal	2.0	1.6	1.2	2.6	3.1	3.5	2.				17.9
Fiancee		1.3	.6	1.2	1.8	2.1	3.	3.6			11.5

WHAT MR. STROUD SAYS ON ABOVE STATISTICS.

"After keeping careful tabulated records for 3 years of different varieties, I have found, with the exception of Enchantress, that the strictly fancy varieties do not yield the same returns in proportion to the common. The reason for this is, the commission men can ask \$2.50 per 100 for well grown

was more than I had ever expected, and I cannot recommend taking the risk of planting outdoors new and expensive varieties, leaving them to the fortune of the weather. The excessive amount of rain made it impossible to cultivate as I could have wished. Now how are we to get around this objection? We have a different opinion in the matter of weather in the New



HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone Oxford 292

WM. J. STEWART, *Editor and Manager.*

The demand
for hardy winter
greenery

The use of bay trees, box bushes, and little conifers, for the winter adornment of the porches, halls and dining rooms of hotels and club houses is making great headway of late and undoubtedly a large business will be done in such material the coming winter by those dealers who are far-sighted enough to provide themselves with the goods. Delicate palms and ferns reared under glass are not fitted for the rigors of such use, and the artificially made-up affairs which many managers of places of public resort have been constrained to use are an abomination which the florist trade can and should drive into obscurity by providing live material which shall satisfy the universal longing for fresh greenery in the wintry days and have the necessary toughness to resist the trying exposure. HORTICULTURE'S advertisers can supply the right goods.

Soil
adaptability

The outcome of a recent investigation and analysis to determine the virtues of the ingredients of special rose soils, as mentioned in this week's notes on British Horticulture, will impress rose growers here and will, no doubt, be endorsed by most practical growers who have made a study of this interesting subject. We recall some rather sensational experiments along this line, made somewhere about twenty years ago in which certain ambitious growers of roses for the New York market figured, quantities of soil being secured for test from Nyack where the notable success in the growing of La France roses was attributed to some subtle properties of the soil ingredients. However, as with some other experiments elsewhere of a similar nature, but on a smaller scale, the net results forced the same conclusions as our British friends seem to have reached, i. e., that the mechanical condition of the soil is as important a factor as its chemical ingredients and that thorough cultivation counts for as much as anything

else, and the Nyack growers who had been somewhat apprehensive that their supremacy might be wrested from them, soon regained their peace of mind.

Why are the
seedsmen
singled out?

Within the past few weeks many of the daily papers have contained references to the publication by the Department of Agriculture of the names of seedsmen selling impure grass seeds. One might easily infer from their remarks that grass seeds constituted the seed business. This suggests the query: Why should grass seeds alone be under the law? There is impure wheat, oats, barley, rye, to say nothing of the great variety of garden seeds. But why does the law apply to seeds alone? How about impure or adulterated food products? Is what the people eat, what affects their health and lives, less important than a few weeds in seeds? If the Government would get samples of all food products, analyze them and publish the names of all who sell impure or adulterated goods, it would appear consistent. It has been remarked that this anxiety to protect the farmers smacks more of politics than honest regard for his interests and it seems to be a fairly correct diagnosis of the case. There is no desire to excuse or palliate the offense of selling impure seeds, but the seedsmen have too long been treated by Congress as a political football, while they are entitled to the same consideration as other business men.

The use
of flowers
at funerals

We find ourselves in full accord with the sentiment expressed by a correspondent of HORTICULTURE recently, that floral tributes sent to a house where death has entered are or should be intended to help lighten the sufferings of those who are bereaved and not for the purpose of making things look more funeral-like. We realize that anyone who assails the long-established custom of sending floral tokens to funerals treads on dangerous ground, for this end of the flower business is the principal support of many a worthy small florist in every section of the country and the interests of such should be jealously guarded. But we cannot overlook the fact that many people of sensitive temperament, who would otherwise be liberal flower buyers, have acquired a deep-seated aversion for certain florists' flowers, especially those that are fragrant, through having come into frequent contact with them on funeral occasions. Knowing this, it is a question whether if flowers were entirely disassociated from these sad and depressing events their more general use for other purposes might not be increased to an extent that would more than offset the shrinkage. This is, of course, an impossibility, but we may consider whether it is not possible to so reform the custom that the floral tribute may be looked upon more as a message of cheer to the living than a memorial to the dead. A first step in this direction would be to eliminate the floral clock with hands pointing to the fatal hour, and any and all other forms of the "gone but not forgotten" type and endeavor to educate the public to the idea of sending flowers to bereaved homes just as they are sent on occasions of joy, as an evidence of tender fellow-feeling and affection, rather than as emblems of lamentation.

NEWS OF THE CLUBS AND SOCIETIES

NEW BEDFORD HORTICULTURAL SOCIETY.

The fourth annual fall show of this society was held in the City Hall on September 13, 14 and 15. The judges were Messrs. O. E. Orpet, of South Lancaster, and K. Finlayson, of Boston.

The high character of the entries was gratifying to the promoters of the exhibition. The cut-flower tables were well covered with blooms of high standard, and with one or two exceptions flowers of low grade, splashed and piebald blooms were conspicuous by their absence. The committee was unable to accommodate all applicants for space, and one very successful local exhibitor was unable to stage a part of her entries. The stage and floor space were occupied by highly creditable displays of decorative plants.

Among the successful local amateur exhibitors were E. H. Wefer, who captured two silver cups; M. McCarthy, one silver cup, and Joseph C. Forbes, who was awarded a silver cup for the best seedling dahlia, a large magenta pink of the decorative class, which he has named for his daughter, Ruth Forbes, and which is pronounced by competent judges to be a decided acquisition. Among the professional growers, Mrs. H. A. Jahn captured ten first premiums, including three silver cups; W. D. Hathaway and W. F. Turner, each one silver cup. F. L. Tinkham was also a large exhibitor. Premiums were offered for seven vases of six flowers each and were awarded as follows: Yellow, Blanche Keith; white, Kron Prinzess Augusta Victoria; red, Standard Bearer; pink, Madame Van Dorn Deal; maroon, Dr. Kirkland; fancy, Gold Medal; any color, Britannia. The premium for ten of any color was awarded to Grand Duke Alexis; for best specimen to Chamane; for largest specimen flower to Souvenir Gustave De Douzon. James Garthly received a silver medal for crested begonias, bronze medal for finely arranged bench of decorative plants, and the premium for specimen fern, *Nephrolepis elegantissima*. Wm. Keith, with N. Pieroni, was a close second.

The exhibition was a great success, being better attended than any previous show.

ST. LOUIS FLORISTS' CLUB.

At the club meeting on last Thursday afternoon the newly elected offi-

cers were installed, also other very important matters came up for discussion. President Ammann was on hand early and opened the meeting as usual, with the old officers at their respective chairs.

Prof. H. C. Irish, the newly elected president, was duly installed by President Ammann, assisted by Frank Fillmore and John Steidle. The other officers who were installed into office were vice-president, John Connon; secretary, J. J. Beneke; treasurer, A. G. Bentzen, and W. C. Smith as a three-term trustee.

All the ex-officers, which were J. F. Ammann, John Steidle, Emil Schray, F. H. Meinhardt and Frank Fillmore, who so ably filled their posts the past year, received a vote of thanks. Emil Denker, Wm. C. Young, Frank Yennemann, G. Fulgrof, H. C. Pring, Oscar Huettemann and Fred M. Alves were elected to membership.

President Irish's opening address was well received. He spoke on some very important questions to come before the meeting the coming year.

Ex-President Ammann also made some well-pointed remarks in his closing address. All the new officers had something to say for the good of the club.

At the next meeting Messrs. F. C. Weber, Geo. B. Windler, E. W. Guy and Emil Schray will lead important discussions, the last two being laid over from this meeting. The October meeting will be held on Thursday the eleventh.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY.

This society had its dahlia night on Tuesday evening, 18th, and it was certainly the best in the society's history. The flowers were arranged on long tables the full length of the hall. John Slocombe exhibited about seventy-five varieties, fully one-third of them being new seedlings of his own raising, one of which, a single scarlet fully 8 inches across, was greatly admired by everybody and was awarded a certificate of merit. James H. MacDonald exhibited about one hundred and fifty varieties and also had quite a collection of seedlings. Robert D. Pryde, president of the society, made a very fine exhibit. W. Beattie had on exhibition a beautiful display of singles. The schedules for the fall exhibition are now in the printer's hand and will soon be ready for distribution by the secretary, Thos. Pettit, 90 Prospect street, New Haven.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The opening meeting of the club was held at Horticultural Hall, Tuesday evening, September 12. The officers and active spirit were duly encouraged by a large attendance, which gave promise for a prosperous term in the club's history. After some routine matters had been attended to the special topic of the evening, the Dayton convention and its lessons, was taken up and freely discussed. F. E. Palmer told of his impressions of the meeting, the exhibition, and the social and business advantages gained by those in attendance at Dayton and proved a staunch and enthusiastic friend of the national society and its policies. W. H. Elliott related his observations also, dwelling appreciatively on the wise business methods and openhanded hospitality of the Cash Register Company. Replying to the regret expressed concerning the numerical representation of the club's members at the convention, P. Welch asserted that the delegation from Boston made up in genius what it lacked in numbers and advanced in proof thereof the election of one of the number, one of the club's oldest members—as president of the national society. E. O. Orpet spoke adversely of the S. A. F., as having no interests in common with private gardeners, but on being pressed by Mr. Welch, acknowledged that he was in the habit of reading the proceedings, papers, etc., as given in the trade papers. The private gardener was scored by W. N. Craig for his reprehensible habits and was urged to take steps for reformation, elevation and consequent higher wages and more conspicuous position. The meeting continued until a late hour.

ELBERON HORTICULTURAL SOCIETY.

An enthusiastic meeting of the Elberon Horticultural Society was held on September 10th. President Robertson in the chair. Three new members were elected and two more proposed. It was decided to have a dahlia show at the next meeting in October. Many prizes were donated by the members present and the outlook is bright for a grand display of this popular flower.

Some good exhibits were staged, notably a vase of *Clematis vitalba*, by W. D. Robertson; a vase of Maman Cochet roses, by A. Bauer, and a vase of dahlias, by J. Kennedy.

SCENES IN BUFFALO FLORISTS' CLUB OUTING.

See issue of Sept. 15.



100-yard dash.

Wm. Scott, starter, in foreground

Hop race

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FROM THE WORLD'S FAMOUS GROWERS

Paper White Narcissus (True Grandiflora) 13 ctm. & over,	1.00	8.50
White Roman Hyacinths (French grown) 12 to 15 ctm.	2.50	23.00
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Single, separate colors, fine bulbs,	2.40	22.00
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unsurpassed quality for forcing or bedding,	4.00	38.00
Tulips — La Reine, the popular single white forcing		
tulip, extra selected stock for florists,	.90	8.00
" Superfine, single, early mixed,	.80	7.00
" double,	1.00	8.50

JOHNSON'S PRIZE WINNER PANSIES

Johnson's Kingly Prize Winner Pansies are the product of the World's Leading Pansy Specialists, and absolutely unsurpassed in quality by any strain extant. We offer seed as follows: 1000 seeds, 30c.; 2000 seeds, 50c.; 5000 seeds, \$1.00. 1/2 oz. \$1.25, per oz., \$5.00. Don't fail to send for our Complete Pansy List if you are interested in Pansies. Write for our new Fall Catalogue of Bulbs and Flower Seeds, and mention "Horticulture." The effort will repay you.

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Our Famous Specialties



	Pkt.	Oz.	4 Oz.	1 lb.
Rawson's Hot-house Cucumber	.15	.60	\$1.50	\$6.00
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" Crumpled Leaf Lettuce	.10	.40	1.10	4.00
" Scarlet Conical Radish	.05	.10	.30	1.00

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ANNOUNCEMENT

HJALMAR HARTMANN of the firm of HJALMAR HARTMANN & CO., Copenhagen, Denmark, Whole ale Growers and Specialists in Danish CAULIFLOWER and CABBAGE SEED, begs to inform the Seed Trade that he is now on his annual visit to the States and invites correspondence. Address,

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MUSHROOM SPAWN
Fresh Spawna Always on hand.
WRITE FOR PRICES.
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THOS. J. GREY & CO.
Fresh Flower, Farm and Garden Seeds, New Mushroom Spawna, Extra quality — French, Japan and Dutch Bulbs. A full line of Agricultural Machinery and Repairs
32 South Market St., Boston
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High Grade
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PHILADELPHIA
Blue List of Wholesale Prices mailed only to those who plant for profit.

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Giant Market Trade Pkt., 2000 seeds, - \$1.00.
Giant Fancy Trade Pkt., 600 seeds, - \$1.00.
Note Carefully the Address.
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FINE SILVER CUPS and TROPHIES
For Exhibition Awards, Sporting Events, etc.
FINEST ASSORTMENT IN THE COUNTRY FROM THE BEST MANUFACTURERS AND AT LOWEST PRICES.
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FARQUHAR'S Famous CYCLAMEN
The Finest Crown
Farquhar's Giant White
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And twelve others
Farquhar's Columbian Prize Mixed
Per 1000 Seeds \$10
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Seed Trade

Crop news confirm reports of last week, but the shortage in vine seeds is not believed to be as severe as claimed by some growers. Prices have advanced ten to fifteen per cent, but as a generous quantity of most varieties was carried over, those who look for famine prices will be disappointed. There is a disposition on the part of many dealers to go up in the air every time a report comes of short crops, and some growers habitually cry shortage, which is unwise unless true, and if not true, dishonest. The inclination to advance prices on every rumor of shortage is very characteristic of a few firms, and reminds one of the story showing the characteristics of Niagara Falls cabmen before their charges were regulated by law. A scientific gentleman estimated that the Falls would dry up in two thousand years. As soon as this reached the ears of the cabmen they advanced their prices. We should aim to avoid extremes.

There has been a sudden drop in the temperatures throughout the middle and eastern states, and fear of frosts is quite general, but unless the drop should be down to freezing point no serious damage is likely to result, as most crops are now beyond the reach of white frosts. A hard freeze, of course, might damage late corn and some late crops of vine seeds and tomatoes, and though not expected "you never can tell."

The campaign against free seeds goes merrily on, and the managers express confidence in the success of their efforts. It is believed that many Congressional advocates of this graft will see a light before the next agricultural appropriation bill is passed, and the item for the free distribution of common garden seeds will be omitted. There are some interesting facts in this connection which may be given out at the proper time, but just at present it might be injudicious.

On September 18 the new seed establishment of the H. E. Fiske Seed Co., at 12 and 13 Faneuil Hall Square, Boston, was opened to the public with appropriate observances. Well wishers had sent flowers galore and, all day, crowds of visitors poured in and out of the handsomely furnished and decorated store. Heller & Co., have done a notable job here in the installment of mice-proof drawers. The bins are of the Walker Swivel type and all the other furnishings are of the most up-to-date type. Many members of the seed and nursery trade called to extend good wishes for the new establishment which is certainly a credit to the Boston seed business.

On account of continued ill health, F. G. Johnson, for several years secretary and treasurer of the Livingston Seed Company of Columbus, Ohio, has resigned his position. Mr. Josiah Livingston has been elected to fill the vacancy. Mr. Johnson retains his stock interest.

Henry A. Bertoli has taken a position with the Bromfield-Colvin-Ries Co., of Bay City, Mich. Mr. Bertoli's name is familiar to seedsmen. He recently resigned his position with the W. W. Barnard Co.

SPECIAL OFFER SELECTED STOCK **Lilium Harrisii**

5 X 6 per 100, \$3.00. \$25.00 per 1000. 5 X 7 per 100, \$4.00. \$10.00 per case of 400.

NARCISSUS PAPER WHITE GRANDIFLORA

True Grandiflora Type. 13 cm. and up, per 100, \$1.50. \$15.00 per 1000, per case of 12 bulbs, \$14.25

Our latest Wholesale Catalogue of Bulbs, Seeds, and reasonable supplies mailed upon application.

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Gabbage Worms

Killed by lightly dusting with
HAMMOND'S SLUG SHOT

For Pamphlet write to Fishkill-on-Hudson, N. Y. Sold by Seedsmen

CATALOGUES RECEIVED.

Thos. J. Grey & Co., Boston. Bulb catalogue and list of horticultural sundries for fall of 1906.

W. W. Rawson & Co., 5 Union street, Boston, Mass. List of bulbs for fall planting. Handsomely illustrated.

George H. Peterson, Fair Lawn, N. J. The Peony Blue Book, for 1906. Evidently the work of a man who is in love with his subject. Well worth the having.

Bay State Nurseries, North Abington, Mass., 1906, price list of trees, shrubs, vines and herbaceous perennials. For gardeners and owners of large estates only.

From the Lord & Burnham Co., comes a package of timely literature comprising "Paint that stays put and something about putty"; "Hot bed sashes and frames"; "The two P's told in the Pleasure and Profit of cold frames"; "Truss construction for sash bar houses"; "The iron frame greenhouse." These are all elegant productions of the printer's and engraver's art and are full of good business advice given in a fascinating manner.

PACIFIC COAST NOTES.

The long time partnership ties of Sievers & Boland, San Francisco, were severed, and a handsome new store by the former, christened Sievers Floral Company, has opened at 1660 California street, a few doors from Van Ness avenue, the very center of the city's most popular retail trade, and fully a mile up the avenue from the Sievers Floral Stand established two months ago at the entrance way to John H. Sievers' nursery. The retiring partner, Mr. Boland, is busy with a force of men in transforming two stores into one at 45-47 Geary street, the center of the burnt district, and here he expects to open by the first of the next month the prettiest flower store the city ever had. Another veteran couple of flower merchants, Messrs. Pelicans & Rossi, who were among the first to re-establish themselves after the disaster, have opened this week their second flower store, two stores in one, at 1345-1347 Sutter street, a few doors from Van Ness avenue. And last, but not least, Messrs. Stein & Levin, for years before the earthquake the highest priced men in Stappenbeck's floral depot on Polk street, have opened a handsome new store at Sutter and Fillmore streets.

A typographical error in the article "A Good Fertilizer" in issue of September 15 requires correction. Instead of "30 lbs. to 50 square feet of bench soil," please read "30 lbs. to 500 square feet, etc."

HYDRANGEA PETIOLARIS. A Correction.

In calling the climber pictured in your frontispiece for September 1, *Schizophragma hydrangeoides* we made an almost inexcusable blunder. We had known it for a long time under that name, and to avoid the very thing we did, we had written the proper name—*Hydrangea petiolaris*,—on the back of the photo,—and still we blundered.

T. D. HATFIELD.

PERSONAL.

Alfred Wagland of Lawrence, Mass., has returned from a three months' sojourn in England.

Among the distinguished visitors in Boston this week were Charles Loechner of New York and H. Hartmann of Copenhagen, Denmark.

MY GIANT CYCLAMEN

ARE AHEAD IN GROWTH AND FLOWERS

Bloodred, Carmine, Pink, Purewhite, White with Carmine Eye.

Each color separate. Tr. Pkt. \$1.00; 1000 seeds, \$6.00. An even mixture of the above 5 colors, Tr. Pkt. 75c.; 1000 seeds, \$5.00.

Silver Leaved New Hybrids
With semi-double flowers. Tr. Pkt. \$1.00; 1000 seeds, \$10.00.

Snowball
New, the real purewhite and largest in existence. Tr. Pkt. \$1.00. 1000 seeds, \$5.00.

For larger quantities, Special Quotations
O. V. ZANGEN, Seedsman, HOBOKEN, N. J.

CYCLAMEN

Giant strains, in separate colors, 3 in. pots, at \$6.00 per hundred

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Hyacinths, Tulips, Crocus, Daffodils, Lilies. A large and varied assortment. Send for our Catalogue.

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SWEET POTATO, CABBAGE, TOMATO, PEPPER, CELERY
All kinds of Vegetable Plants. Best Plants, Lowest Prices. Can ship direct by all express companies, insuring low express rates. Write for Prices. Send list of your needs in Vegetable Plants and we will give you special low prices.

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600 Adams Street

OBITUARY.

Mrs. Theodosia B. Shepard, the well-known floriculturist of California, passed away at her home in Ventura on September 8, in her sixty-first year. Mrs. Shepherd went to California in 1873 from Iowa for her health and at once made floriculture a study. Her improved forms of garden flowers, such as begonias, petunias and cosmos were well known and commanded fancy prices. A husband, two daughters and a son survive her.

Mrs. Janette P. Garthly, wife of James Garthly, gardener for H. H. Rogers in Fairhaven, Mass., died Monday, September 17, age 54 years, in Almond Bank, Perth, Scotland, her native home.

Mrs. Garthly, with her daughter Margaret, sailed the last of June for Scotland for her health, and had been there at her home in Almond Bank since that time. Last week a letter was received from her stating her condition, and this was followed the last part of the week by a cablegram for Mr. Garthly to go to her immediately. Mr. Garthly sailed on the Campania Saturday. Another cablegram received by her son announced Mrs. Garthly's death Monday.

Mrs. Garthly is survived by her husband and two children, Margaret, who was with her, and William D., who is employed in New Bedford.

The bereavement is a singularly sad one for Mr. Garthly, for whom deep sympathy is felt by fellow gardeners and florist friends.

Surplus Stock for Sale at Once.

100 *Dracaena Regina*, 4 in. pots, 10c.
250 *Dracaena Stricta grandis*,
4 in. pots, 15c.
100 *Dracaena Lady Hume*, beau-
tifully colored variety, 15c.
100 *Hybrida*, 15c.
250 *Amabilis*, 25c.
350 *Terminalis*, 12c.
100 *Pandanus Utilis*, 4 in. pots, 25c.
500 *Cyclamen* in 3 in. and 4 in.
pots, of the best giant varieties,
at from \$8 to \$10 per hundred.

Subject to being unsold. Above are strong,
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Rose Hill Nursery,
NEW ROCHELLE, N. Y.

We Need Room

We offer good plants at reasonable prices.

DIGITALIS gloxiniaeflora... 60c. per 100
VINCA, mixed, (rose white with
red eye, pure white) 2½ in. pots \$2.00 per 100
PRITULA obs. gr. fl., mixed,
½ in. pots \$2.50 per 100

BAUDISCH & CO.
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RHODE ISLAND HORTICULTURAL SOCIETY.

The dahlia and aster exhibit of the R. I. Horticultural Society opened on September 14 in Falstaff Hall, Providence. Prominent among the exhibitors were G. H. Walker of North Dighton, Mass., W. H. Tarbox of East Greenwich, C. Olney of Rehoboth, Mass., A. F. Burt of Taunton, Star Dahlia Gardens of East Providence, and W. T. Cook of Providence. This was said to be the largest display of the kind ever given by the State Society. There were certainly an abundance of blooms and a good fruit show, but the arrangement of the flowers and general effect of the staging was not what might reasonably be expected from a state organization of some pretensions. A visit to the tasteful New Bedford exhibition which was held on the same day would have been a valuable object lesson to our Rhode Island friends.

LENOX HORTICULTURAL SOCIETY.

The regular meeting of the Lenox Horticultural Society was held Saturday, September 15, President S. Carlquist in the chair. Letters were received and read from the following firms, offering premiums for our chrysanthemum show: Howard & Morrow, Julius Roehrs Co., C. H. Totty, J. H. Harris and Bay State Nurseries. Votes of thanks were passed for the above. Mrs. Edith R. Wharton was unanimously elected a life member of the society, and Mr. D. Hothersall an annual member. Everything promises fine for a good chrysanthemum exhibition, as the plants in this section are looking particularly good.

MORRIS COUNTY (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

This society held its regular September meeting on the 12th inst. Twenty-six members were present.

The monthly exhibition while not large was of good quality. J. Heeremans showed onions Ailsa Craig and Magnum Bonum and a grand lot they were. Award was a cultural certificate. He also put up four varieties of Hohenzollern aster; all fine. Honorable mention. E. Reagan had several cases of Celosia Thompsoni magnifica and dahlia Mrs. Theo. Roosevelt; award honorable mention.

The flower show discussion took up a good part of the time. Two new members were elected. Alex J. Guttman entertained us with a vivid description of the recent S. A. F. con-

vention. President Heeremans is to tell us at next meeting something of his travels in Old England.

E. REAGAN, Secretary.

CLUBS AND SOCIETY NOTES.

The dahlia show and autumn exhibition of the American Institute will be held at the hall of the society 19 and 21 West 44th street, New York, on Tuesday, Wednesday, and Thursday, September 25, 26, and 27.

The annual meeting of the Wisconsin Horticultural Society was held on September 5 at Baraboo. Addresses were made by Wm. Toole of Baraboo, J. Tiplady and Wm. Longland of Lake Geneva, Hon. Franklin Johnson; a paper by Emil Mische, superintendent of parks at Madison, was read by Secretary Cranefield.

The Nassau County Horticultural Society (N. Y.) held its regular meeting on September 13. Among the prize winners for exhibits of dahlias were James Duthie and Albert Johnson. For the October meeting prizes have been offered by Charles Lenker, Buell Davis and Mr. Janiche. The annual flower show will open October 31.

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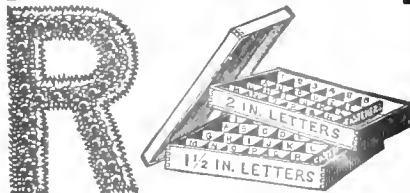
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Am. Beauty, Fan. & Sp.	20.00 to 25.00	15.00 to 20.00	20.00 to 25.00	16.00 to 25.00
" Extra.....	12.00 to 15.00	10.00 to 12.50	12.00 to 15.00	8.00 to 12.00
" No. 1.....	8.00 to 10.00	6.00 to 8.00	8.00 to 10.00	4.00 to 6.00
" Lower grades.....	2.00 to 5.00	3.00 to 5.00	3.00 to 5.00	1.00 to 2.00
Bride & "Maid—Fan. & Sp.....	5.00 to 6.00	3.00 to 4.00	4.00 to 6.00	3.00 to 6.00
" Ordinary.....	2.00 to 4.00	2.00 to 4.00	2.00 to 3.00	.50 to 2.00
Golden Gate, Fancy.....	5.00 to 6.00	3.00 to 4.00	4.00 to 6.00	3.00 to 4.00
" Ordinary.....	2.00 to 4.00	2.00 to 4.00	2.00 to 3.00	.50 to 1.00
Liberty, Fancy.....	5.00 to 6.00	3.00 to 5.00	6.00 to	3.00 to 6.00
" Ordinary.....	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	.50 to 2.00
Richmond, Fancy.....	5.00 to 6.00	3.00 to 5.00	6.00 to	3.00 to 6.00
" Ordinary.....	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	.50 to 2.00
Kaiserin, Carnot, Chateauf, Fancy.....	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	3.00 to 6.00
" Ordinary.....	2.00 to 4.00	3.00 to 4.00	2.00 to 3.00	.50 to 3.00
CARNATIONS				
Fancy.....	1.50 to 2.00	1.00 to 1.50	1.50 to 2.00	1.00 to 1.50
Ordinary.....	.75 to 1.00	.50 to 1.00	1.00 to .....	.75 to 1.00
MISCELLANEOUS				
Cattleyas.....	50.00 to 75.00	..... to	75.00 to	50.00 to 75.00
Lilies.....	8.00 to 10.00	..... to	12.50 to	5.00 to 8.00
Gladioli.....	2.00 to 5.00	1.00 to 1.50	3.00 to	1.00 to 3.00
Asters.....	1.00 to 2.00	..... to 2.00	.75 to 3.00	.25 to 1.50
Lily of the Valley.....	3.00 to 4.00	..... to 3.00	2.00 to 4.00	2.00 to 4.00
Dahlias.....	..... to .....	..... to	1.00 to 2.00	1.00 to 2.00
Tuberose.....	..... to .....	..... to	3.00 to .....	..... to .50
Mignonne.....	1.00 to 2.00	..... to .....	..... to	1.00 to 2.00
Adiantum Cuneatum.....	.75 to 1.00	1.00 to 1.25	1.00 to .....	.50 to 1.00
" Croweanum.....	1.00 to .....	..... to	1.50 to	1.00 to 1.50
Smilax.....	10.00 to 12.00	..... to 12.50	12.00 to 15.00	12.00 to 16.00
Asparagus Plumosus, strings.....	25.00 to 30.00	25.00 to 40.00	35.00 to 50.00 to 50.00
" " & Sprenger bunches.....	25.00 to 30.00	25.00 to 50.00	35.00 to 50.00	20.00 to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON It would be difficult to fully express in words the extreme languor prevailing in the cut flower trade this week. The demand is the lightest in many weeks and there is little prospect of improvement until much cooler weather with shorter crops and better quality appears. There are very few presentable roses yet. A few American Beauty of good grade sell pretty well because they are so few. Of the smaller varieties there are large quantities of low grade blooms from young plants, useless in the present state of the market. Carnations are few but they are not needed in the prevailing abundance of asters. Lily of the valley has the distinction of being the only thing enjoying a good demand.

CINCINNATI Business is gradually improving in the cut flower market and very little if any first-class stock is going to waste. The majority of roses are too short-stemmed to be of much use. Some nice Beauties are coming in which find a ready sale at a fair figure. Carnations are not improving very fast and the demand is not great for such as are offered. Home-grown asters are about done for but the northern ones are good and are being shipped in by the thousands. Lily of the valley is fine and is now a permanent flower on the market. A few lilies can be seen here and there but they do not amount to much. Gladioli and tuberose are about played out for this season. Green goods are not any too plentiful especially smilax.

COLUMBUS Last week showed especially good business with all of us; as the unveiling of the McKinley memorial monument brought to the city many distinguished men and women, —and the elaborate entertainments that were given by society for these visitors meant a very large volume of decorative orders for our florists. It is the custom here on gala days, for the multitude to buy flowers for the buttonhole; and naturally this week McKinley carnations were in large demand for this purpose. —Lawson carnations were used in most cases.

INDIANAPOLIS Trade during September has shown a marked increase over the previous month. Conditions of stock denote neither an influx nor scarcity in any class except carnations, which are yet short stemmed and small. American Beauty is improving, and good tea roses are to be had with little difficulty. Asters, dahlias and gladioli are in fairly good supply.

The outlook for trade this fall is exceedingly encouraging.

Throughout the western trade territory adjacent to this city comes assurance of big crops. Growers are making preparations for an increased plant trade. Each year makes a new record in sales in this department. A visit to the growers readily impresses one with the extensive variety of this stock.

NEW YORK A day or two of activity raised the spirits of the growers and dealers at the beginning of the week but it did not last long and with the return of warm weather things lapsed back into profound dullness. Immense overstocks of asters and small roses were received and could not be disposed of. A bright ray of hope is seen in the Jewish holidays with which the week will close, however, and it is hoped that this will go a long way toward disposing of the surplus

that has accumulated. The quality of American Beauty roses, carnations and some other things shows a marked improvement. Here and there are seen chrysanthemums of the early varieties.

SAN FRANCISCO Six days ago the eleven days street car men's strike was declared off and within an hour the cars were again running and florists and nearby growers who use the trolley transportation in their business are greatly pleased with the turn in affairs. On the whole trade has been very satisfactory this week. Roses and carnations are quite scarce and advance prices did not curtail sales. Liliun album and rubrum are not quite so plentiful and there have been customers aplenty this week for the abbreviated supply. All the show windows have been extra blooming beauties this week, with cold storage longiflorums in several of their displays. Other seasonable blooms, and smilax, adiantum and other greens are in good supply.

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From Horticulture, Sept. 8, 1906.

Among the useful specialties shown at the Dayton exhibition nothing was inspected with more interest than E. A. Beaven's "Fadeless" sheet moss. The coloring of this moss is, of course, artificial, but so exact is the imitation of the natural moss shades that it has every appearance of having been freshly collected from the woods. The many uses to which this material can be put in decorative plant and flower work will at once suggest themselves to the initiated and we predict a phenomenal demand for the "Fadeless."

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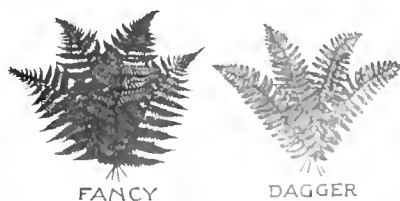
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Roses			Carnations, Fancy	1.00 to 1.50	1.00 to 1.50
Am. Beauty, fan and sp.	15.00 to 20.00	15.00 to 20.00	Carnations, Ordinary50 to .75	.50 to .75
" extra.....	8.00 to 12.00	8.00 to 12.00	Cattleyas	50.00 to 75.00	50.00 to 75.00
" No. 1.....	4.00 to 6.00	4.00 to 6.00	Lilies	4.00 to 6.00	4.00 to 6.00
" Lower grades.....	1.00 to 2.00	1.00 to 2.00	Gladioli.....	.50 to 1.00	.50 to 1.00
Bride & 'Maid, fan and sp.....	2.00 to 4.00	2.00 to 4.00	Asters.....	.15 to 1.00	.15 to 1.00
" Ordioary.....	.25 to 1.00	.25 to 1.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Golden Gate, fancy.....	2.00 to 4.00	2.00 to 4.00	Sweet Peas, bunches.....	..... to .....	..... to
" ordinary.....	.25 to 1.00	.25 to 1.00	Mignnette.....	..... to .50	..... to .50
Liberty, fancy.....	3.00 to 6.00	3.00 to 6.00	Adiantum Cuneatum.....	.25 to .50	.25 to .50
" ordinary.....	.25 to 2.00	.25 to 2.00	" Crownatum.....	1.00 to 1.50	1.00 to 1.50
Richmoood, fancy.....	3.00 to 6.00	3.00 to 6.00	Smilax	6.00 to 8.00	6.00 to 10.00
" ordinary.....	.25 to 2.00	.25 to 2.00	Asparagus Plumosus	10.00 to 25.00	10.00 to 25.00
Kaiserio, Carnot, Chateauy, fancy.....	3.00 to 6.00	2.00 to 4.00	" " & Sprengert, bunches	15.00 to 35.00	15.00 to 35.00
" " " ordioary.....	.25 to 2.00	.25 to 1.00			

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ROSES				
Am. Beauty, fan and sp.	20.00 to 25.00	20.00 to 30.00	20.00 to 25.00	18.00 to 20.00
" extra.	15.00 to 20.00	15.00 to 20.00	12.00 to 20.00	12.50 to 15.00
" No. 1.	8.00 to 10.00	6.00 to 8.00	6.00 to 12.00	6.00 to 8.00
" Lower grades	4.00 to 6.00	3.00 to 6.00	3.00 to 6.00	..... to 4.00
Bride & 'Maid—Fan, and Sp.	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	4.00 to 6.00
" Ordinary	2.00 to 4.00	3.00 to 4.00	4.00 to 5.00	..... to 3.00
Golden Gate, Fancy	7.00 to 8.00	4.00 to 6.00	5.00 to 6.00	4.00 to 6.00
" Ordinary	2.00 to 4.00	3.00 to 4.00	3.00 to 5.00	..... to 3.00
Liberty, fancy	5.00 to 6.00	4.00 to 6.00	5.00 to 7.00	..... to 6.00
" Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00	..... to 4.00
Richmond, Fancy	5.00 to 6.00	4.00 to 6.00	6.00 to 7.00	..... to 6.00
" Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 6.00	3.00 to 4.00
Kaiserin, Carnot, Chateaux, Fancy	..... to 6.00	4.00 to 6.00	6.00 to 7.00	8.00 to 10.00
" Ordinary	3.00 to 4.00	2.00 to 4.00	3.00 to 6.00	..... to 6.00
CARNATIONS				
Fancy	1.50 to 2.00	1.00 to 2.00	1.50 to 2.00	..... to 2.00
Ordinary	.75 to 1.00	.50 to .75	.50 to 1.00	.75 to 1.50
MISCELLANEOUS				
Cattleyas	..... to .....	..... to .....	..... to .....	..... to
Lilies	5.00 to 10.00	10.00 to 15.00	3.00 to 15.00	12.50 to 18.00
Gladioli	2.00 to 3.00	.75 to 2.00	..... to	2.00 to 4.00
Asters	1.00 to 2.00	.50 to 2.00	1.00 to 2.00	.50 to 2.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Sweet Peas	..... to .....	..... to .....	..... to .....	..... to
Mignonette	..... to .....	..... to	1.00 to 1.50	..... to
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.50 to 1.00	..... to 1.00
" Crowcaunum	..... to .....	..... to	1.00 to 1.50	1.25 to 1.50
Smilax	10.00 to 12.00	..... to 12.50	..... to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	25.00 to 35.00	25.00 to 35.00	35.00 to 50.00
" " & Sprenger, bunches	..... to 35.00	25.00 to 35.00	25.00 to 35.00	35.00 to 50.00

Geo. A. Sutherland Co.
CUT FLOWERS
Florists' Supplies and Letters
34 HAWLEY STREET - BOSTON

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

The KERVAN CO. 20 WEST 27th ST., N. Y.
WHOLESALE DEALERS
Fresh cut Palmetto & Cycas Palm Leaves, Galax, Ilex, etc., Ferns and Mosses. All Decorating Evergreen.

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Buyer's Directory and Ready Reference Guide READ IT

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ADIANTUMS.

Henry A. Dreer, Philadelphia. For page see List of Advertisers.
Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.
Adiantum Parleyense, 2 1/2 in. strong stuff, for growing on, or for Fern dish, \$15.00 per 100; \$140.00 per 1,000. J. A. Peterson, Westwood, Cincinnati, O.

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ASPARAGUS.

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Asparagus Sprengeri, large, field grown clumps, \$5.00 100, H. W. Voss, Hyde Park, Mass.
Asparagus plumosus nanus and Sprengeri, 2 1/2 in., \$2.50 100, Carl Hagenburger, West Mentor, Ohio.
Asparagus plumosus and Sprengeri, fine 2 in. stock, \$2.00 100; \$18.00 1000. Cash. Lewis Ulrich, Tiffin, Ohio.
Asparagus Plumosa, 2 in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erle Floral Co., Erle, Pa., or Wm. F. Kasting, 385 Elliott St., Buffalo, N. Y.

AUSTRIAN AND SCOTCH PINES.

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BEGONIAS.

Henry A. Dreer, Philadelphia
Begonia Gloire de Lorraine. For page see List of Advertisers.
Begonias Gloire de Lorraine and Turnford Hall, propagated from leaf cuttings, \$15.00 100; \$140.00 1000; 4 in., \$40.00 100. Cash. J. A. Peterson, Westwood, Cincinnati, O.

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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.
Welch Bros., 15 Province St., Boston. For page see List of Advertisers.
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A. M. Davenport, 88 Grove St., Watertown, Mass.

DRACAENAS.

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Dracaena terminalis from bench, fine \$25.00 100, Carl Hagenburger, West Mentor, Ohio.

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FLORAL PHOTOGRAPHS.

- Floral Photographs, Foley's 226 228 1-2 Bowers, New York.

FLORISTS' FERTILIZER.

A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address The Barwell Agricultural Works, Waukegan, Ills. Established at Leicester, England in 1809.

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- Eyres, 11 N. Pearl St., Albany, N. Y.
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- Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LILIUM HARRISII.

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Patents, Trade Marks, and Copyrights.
25 years' active practice.
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Fine collection of Best Peonies. Complete Peony and Plox Manuals, 25 cents each. C. S. Harrison's Select Nursery, York, Nebr.

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Wm. Elliott & Sons, 201 Fulton St., N. Y.

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S. N. Pentecost, Cleveland, O.
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Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

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Primula Obs. Grandiflora, 4 in. pots. \$6 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

PUTTY.

Benj. Hammond, Fishkill on Hudson, N. Y.
Twemlow's Old English Glazing Putty.
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RHODODENDRONS.

John Waterer & Sons, Ltd., American Nursery, Bagsbot, Eng.
For page see List of Advertisers.

ROSES.

M. H. Walsh, Wooda Hole, Mass.
Hardy Roses, H. T. Rosea and Rambler.
For page see List of Advertisers.
E. H. Pye, Upper Nyack, N. Y.
For page see List of Advertisers.
Henry A. Drier, Philadelphia.
Baby Rambler.
For page see List of Advertisers.
American Beauties, 2-in., \$55.00; 3-in., \$80.00 1000. Cash. J. Henry Bartram, Laosdowne, Pa.
Roses. Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1-2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

SEEDS.

T. J. Grey & Co., 32 So. Market St. Boston, Mass.
For page see List of Advertisers.
Joseph Breck & Sons, 51 and 52 N. Market St., Boston, Mass.
For page see List of Advertisers.
W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.
J. M. Thorburn & Co., 33 Barclay St., New York.
For page see List of Advertisers.
H. F. Mitchell Co., 1018 Market St., Philadelphia, Pa.
For page see List of Advertisers.
R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
For page see List of Advertisers.
A. T. Boddington, 342 W. 14th St., N. Y.
For page see List of Advertisers.
James Vick's Sons, Rochester, N. Y.
For page see List of Advertisers.
W. W. Rawson & Co., 5 Union St., Boston.
Vegetable Seeds for Foreign.
For page see List of Advertisers.
Conrad Appel, Darmstadt, Germany, Es-ab. 1789. High Grade Grass, Clover, and Tree Seeds.

SEED CASES—MICE PROOF.

Heller & Co., Montpelier, O.

SIEVES AND SCREENS.

Hub Wire Works, 13 Devonshire St., Boston.

SMILAX.

J. C. Schmidt Co., Bristol, Pa.
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E. A. Beaven, Evergreen, Ala.
Southern Smilax.
For page see List of Advertisers.

SMILAX PLANTS.

R. Kilbourn, Clinton, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIRAEA.

Warnaar & Co., Sassenheim, Holland.
For page see List of Advertisers.

STEAM TRAP.

E. Hppard, Youngstown, O.

VEGETABLE PLANTS.

Plainfield Nursery, Plainfield, Ind.
For page see List of Advertisers.

VENTILATING APPARATUS.

Lord & Burnham Co., 1133 Broadway, New York.
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Plerson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchling & Co., 1170 Broadway, N. Y.
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John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
For page see List of Advertisers.
Weathered Co., 46 and 48 Marion St., N. Y.
For page see List of Advertisers.
Foley Mfg. Co., 471 W. 22nd St., Chicago.
For page see List of Advertisers.
The Chicago Lifter.
J. C. Montinger Co., 421 Hawthorne Ave., Chicago.

VIOLETS.

H. R. Carlton, Willoughby, O.
Violet, Gov. Herlick.
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J. C. Schmidt Co., Bristol, Pa.
For page see List of Advertisers.
R. Engelman & Son, Pittsfield, Mass.
For page see List of Advertisers.

WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.
Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.

Boston.
For page see List of Advertisers.
N. F. McCarthy & Co., 84 Hawley St., Boston.
George A. Sutherland Co., 34 Hawley St., Boston.
Welch Bros., 15 Province St., Boston.

Buffalo.

Wm. F. Kastling, 383-87 Elliott St., Buffalo, N. Y.
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Chicago.

For page see List of Advertisers.
J. A. Budlong, 37 Randolph St., Chicago.
Chas. W. McKellar, 51 Wabash Av., Chicago.
Peter Reinberg, 51 Wabash Av., Chicago.

Detroit.

Michigan Cut Flower Exchange, 38 & 40 Miami Av. Wm. Dilger, mgr.
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New York.

For page see List of Advertisers.
J. K. Allen, 106 W. 28th St., New York.
Wm. Stuart Allen Co., 53 W. 28th St., New York.
J. S. Fenrich, 110 W. 28th St., New York.
Ford Bros., 48 West 28th St., New York.
H. E. Froment, 57 W. 28th St., New York.
Alex. J. Gutman, 43 West 28th St.
E. C. Horan, 55 West 28th St., New York.

WHOLESALE FLORISTS—Continued.
New York.

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Phillip F. Kessler, 55 W. 26th St., New York.
Julius Laug, 53 West 30th St., New York.
A. H. Langjahr, 55 W. 28th St., New York.
James McManus, 42 W. 28th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55-57 W. 26th St., New York.
A. Moltz, 55-57 W. 26th St., New York.
John I. Raynor, 49 W. 28th St., New York.
W. F. Sheridan, 39 W. 28th St., New York.
Traendly & Schenck, 44 W. 28th St., New York.
Hicks & Crawbuck, Inc., 76 and 78 Court St., Brooklyn, N. Y.

Philadelphia.

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W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
Leo Nissen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
Edward Reid, 1526 Raunstead St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.

New Offers in This Issue.**BULBS FOR FALL PLANTING.**

James Vick's Sons, Rochester, N. Y.
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BULBS: PRIZE WINNER PANSIES.

Johnson Seed Co., 217 Market St., Phila.
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CARNATIONS, FIELD GROWN.

M. J. Schaaf, Dansville, N. Y.
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DECORATIVE BOXWOODS.

Charles Millang, 50 W. 29th St., New York.
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DRACAENA, PANDANUS, CYCLAMEN, SURPLUS STOCK.

Siebrocht & Son, 425 Fifth Av., New York.
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FADELESS SHEET MOSS.

E. A. Beaven, Evergreen, Ala.
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FLORISTS' ESTABLISHMENT TO LEASE.

Mrs. J. J. Nolan, No. Attleboro, Mass.
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FLOWERS BY TELEGRAPH.

Young & Nugent, 42 W. 28th St., New York.
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FLORISTS' SUPPLIES, LATEST IMPORTATIONS.

H. Bayerdorfer & Co., Philadelphia.
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GIANT PANSY SEED.

Augustus Zirngiebel, Needham, Mass.
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STRAW MATS.

Wm. Elliott & Sons, 201 Fulton St., New York.
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VIOLETS, PRINCESS OF WALES.

Charles H. Green, Spencer, Mass.
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WHOLESALE FLORIST.

John Young, 51 W. 28th St., New York.
For page see List of Advertisers.

DREER SPECIAL OFFER OF SEASONABLE PLANTS



DRACAENA GOLDIEANA

DRACAENA GOLDIEANA. A fine lot of this beautiful, always rare variety, 5 inch pots, 10 inches high, \$1.25 each.

ARDISEA CRENLATA, in five inch pots, \$1.00 each.

PANDANUS VEITCHI. A magnificent specimen plants, 6 inch pots, well furnished, 18 to 20 inches high, \$1.50 each; 7 inch pots, well furnished, 22 to 24 inches high, \$1.50 each.

NEPHROLEPIS WHITMANI. The most distinct and desirable of the crested forms of the Boston Fern; its great points of merit are that it never reverts or never shows plain fronds on part of fronds; it naturally makes a shapely compact plant, it is more graceful than any of the other sorts and is a quick grower. We offer strong 2 1/2 inch pots at \$3.50 per dozen, \$25.00 per 100; 3 inch pots, \$4.00 per dozen, \$30.00 per 100; and one plants in 6 inch pots at \$1.00 each.

NEPHROLEPIS SCOTTII. A grand lot of bushy, shapely, compact plants in 6 inch pots, 50 cts.; 8 inch pans, \$1.00; and 12 inch pans, \$2.00 each.

ADRIANTUM FARLEYENSE. A magnificent lot of specimen plants in 7 inch pots, \$1.50 each, also a lot of clean, vigorous, 3 inch pots for growing on, \$2.00 per dozen, \$15.00 per 100.

BEGONIA GLOIRE DE LORRAINE, 3 inch pots, \$3.00 per dozen; \$20.00 per 100.

BABY RAMBLER ROSES, pot grown stock, suitable for Christmas forcing, 5 inch pots, \$5.50 per dozen, \$25.00 per 100; 4 inch pots, \$2.00 per dozen, \$15.00 per 100.

HENRY A. DREER, 714 Chestnut St., Philadelphia

NEWS NOTES.

Folsom & Nelson, florists, have taken a store on Main street, Rochester, N. H.

William Rhuland of Athol has purchased the greenhouses of H. J. Whittemore, Winchendon, Mass.

Josiah Young succeeds Young & Halstead in Troy, N. Y., and has added a line of florists' supplies.

J. Newman & Sons are about to remove to 24 Tremont street, Boston, nearly opposite the location where they have been doing business for many years.

F. R. Hills, who has had greenhouses at N. Eighth avenue and Tenth street, for several years, will open a retail store on Lake street, Maywood, Ill., about October 1.

W. L. Huccke, formerly a retailer in St. Louis, more recently with Pöhlmann Bros. Co., Chicago, has accepted a position with the Muscogee Carnation Co., Muscogee, I. T.

G. R. Nordell of Long Branch, N. J., who for nineteen years has been in charge of the greenhouses established by his father in 1868, has retired from business. He will live in Long Branch.

A fire that started on the second story in the building 304 Boylston street, Boston, was the cause of considerable damage by water to the stock of W. E. Doyle, florist, on the street floor.

Fourteen florists employed at the Phipps conservatory in Schenley Park, Pittsburg, Pa., went out on a strike on the morning of September 13, but the matter was adjusted and the men were in their places early in the afternoon.

William Spinney, while trimming trees on the estate of T. Dennie Boardman, Manchester, Mass., on September 18 was thrown from the wagon in which he was standing and received

injuries that will probably result fatally.

Charles Millang has leased the spacious premises at 45 West 29th street, New York, for one year and will make use of it as an annex to his overcrowded establishment on the opposite side of the street. John Knickman and Walter Kline will have charge.

J. A. Peterson of Cincinnati lost a pair of rimless gold spectacles while at the convention in Dayton. On the case is the name, "Michie Bros., Cin., O." If any of our readers heard of the finding of such they will confer a favor by communicating with Mr. Peterson.

The Maine Agricultural Experiment Station is planning a systematic survey of the State with reference to those diseases of plants that are caused by parasitic fungi. They request that specimens of such diseased plants be sent to the Station, Orono, Maine.

Wm. Spillsbury of Woburn, Mass., has narrowed down his product to violets for winter and cucumbers for summer, and asserts that to attempt more than two special crops in a year is not advisable. Those having cucumbers under glass this season are making money, as the local out-door crop is a partial failure.

Matthew McNair of Providence, R. I., who occupies a one-story, flat-roof building, brought suit against the owner because a bill-posting company was allowed to remove from the roof a flag used by him as an advertisement. The court sustained Mr. McNair, deciding that a tenant has a right to use such roof over his store for advertising purposes.

The Home Culture Clubs of Northampton, Mass., have purchased the Loonis property, which includes a greenhouse, 30x60 feet. This greenhouse will be used for the cultivation of plants and shrubs required for the

Carnegie garden competition. A part of the Carnegie plant promotion fund of \$8,500 was used for the purchase of the property.

The directors of the Cincinnati Fall Festival Association have called off the floral display that was to have been held September 20. An insufficient number of entries is given as the reason. Five hundred dollars was offered in prizes and some of the craft had placed their order for flowers and made other preparations for the show. This leaves some one to hold the bag.

Among the signs of the opening fall season was the voice of auctioneer W. J. Elliott cheerily calling off the values of a lot of fine plants at 201 Fulton street, New York, on Tuesday, September 19. Sales will be held every Tuesday and Friday throughout the season. Messrs. Elliott will sell on October 2 the collection of orchids of the late G. L. Montgomery. This is regarded as one of the best private collections in the country.

A neat little spring tape measure of steel with the English system on one side and the metric on the other has been received from the Foley Manufacturing Company, Chicago. This is the souvenir which they advertised a few weeks ago and we doubt not that they have still a few left for those readers of HORTICULTURE who neglected to send in the coupons as directed. Just refer to HORTICULTURE when you write.

The Spaulding estate at Pride's Crossing, Mass., are erecting a large greenhouse plant on their farm on Greenwood avenue, Beverly Farms, consisting of two houses 39x150 each, also two lean-to houses, one 16x55, the other 8x40. They are intended for growing fruit and vegetables. This, in addition to their already large plant, will be one of the largest private establishments in New England. The Weathered Company of New Jersey are the contractors.

POT MAKERS FOR 140 YEARS
A. H. HEWES & CO. INC. CAMBRIDGE, MASS.
 FLOWERS ARE KEPT IN EVERY KIND

GLASS FOR SALE

We have for sale a quantity of A and B double thick New Jersey hand made, all of which runs especially uniform in quality and thickness. Terms reasonable to people of first class credit. Inquiries solicited.

ATCO CLASS WORKS

G. C. WATSON, General Agent
 9th and Market Sts., PHILADELPHIA

Standard Flower POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money
W. H. ERNEST,
 26th and M Streets, WASHINGTON, D. C.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

EXPERIENCED LANDSCAPE PLANTER AND ENGINEER

desires a position about Sept. 25, competent to take full charge of job for landscape architect or private proprietor. Address E. L. R., HORTICULTURE.

SITUATION WANTED.

Young married man wishes position as gardener on private estate. Up to date in all branches. Well recommended. Address Bee, care HORTICULTURE, 11 Hamilton Place, Boston.

POSITION WANTED in a first-class retail flower store by experienced decorator, 27 years old, married. Good reference as to character and ability. Address J. A. B., care HORTICULTURE, 11 Hamilton Place, Boston.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—We can with great confidence recommend to any lady or gentleman requiring the services of a skilled all round gardener and orchid grower. He can furnish best of references. Carrillo & Baldwin, orchid growers and importers, Secaucus, N. J.

SITUATION WANTED—As private gardener on place where there is a range of greenhouses. Best of references. Over 7 years in last place. Expert rose grower. Married. Address J. J., care HORTICULTURE.

WANTED—A medium sized hot water heater and fittings. W. R. Brady, York Harbor, Me.

WANTED—A good first class grower with experience in Roses, Camellias and a general line of cut flowers. Hugh S. Cox, Birmingham, Ala.

WANTED—Medium sized hot and hand hot water boiler. H. W. Vasey, 114 Park, Mass.

GREENHOUSES BUILDING AND PROJECTED.

New.

Philadelphia, Pa.—H. Alcer, one house, 16x75.

Meriden, Conn.—R. W. Barrows, one house, 18x100.

Kent, Wash.—Roy A. Wilson, four houses, 16x200.

W. Newton, Mass.—Wm. G. Folsom, one house, 20x70.

Additions.

Joplin, Mo.—Edward Teas, one house.

Hockanum, Conn.—H. G. Williams, extension.

Springfield, O.—Leedle Floral Co., one house.

Bridgeport, Conn.—Lester O. Peck, one house.

Kent, Wash.—Morrill & Hopkins, three houses.

Belfast, Me.—W. E. Hamilton, rose house, 32x62.

Denver, Colo.—N. A. Benson, one house, 25x125.

Sterling, Ill.—J. A. Swartley, one house, 46x200.

Pittsfield, Mass.—J. A. Spoor, one house, 25x120.

Grand Forks, N. D.—E. W. Kneeland, one house.

Waterloo, Ia.—Charles Sherwood, one house, 32x42.

Govanstown, Md.—A. A. Anderson, one house, 18x26.

Lexington, Mass.—Edward Wood one house, 25x100.

Maywood, Ill.—F. R. Hills, three houses, each 25x130.

Tewksbury, Mass.—Albert Roper, one house, 33x300.

Columbus, O.—B. Buehler & Son, two houses, each 16x65.

E. Norwalk, Conn.—Robert Morrison, one house, 20x100.

Amesbury, Mass.—George Tessimond, one house, 22x50.

New Bedford, Mass.—Napoleon Lemay, additions to carnation house.

Louisville, Ky.—Jacob Schulz, four houses; Frank Gottwald, one house.

Greenfield, Ind.—Jacob Forest, one house, 16x100; H. Hastings, one house.

Greenfield, Ind.—Jacob Forest, one house, 16x100; H. Hastings, one house.

FOR LEASE

A prosperous florist business, established 16 years, with good retail trade, on line between Boston and Providence. For full particulars apply to office of HORTICULTURE, Boston.

Mrs. J. J. NOLAN
 NORTH ATTLEBORO - MASS.

CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
 ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices
The A. T. STEARNS LUMBER CO.
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Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

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 Box 9, National Union Building
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STANDARD FLOWER POTS
 Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 1/2 " " " "	5.25	60 8 " " " "	3.00
1500 3 " " " "	6.00	HAND MADE	
1000 3 " " " "	5.00	43 9 in. pots in crate	\$3.60
800 3 1/2 " " " "	5.80	43 10 " " " "	4.80
500 4 " " " "	4.50	24 11 " " " "	3.60
320 5 " " " "	4.50	24 12 " " " "	4.80
144 6 " " " "	4.50	12 14 " " " "	4.80
		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 percent. off for cash with order. Address Hillinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

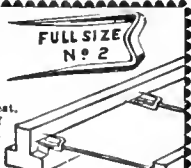
Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

BOSTON PLATE & WINDOW GLASS CO.
GREENHOUSE GLASS
 German and American
 261 to 287 A St., BOSTON 20-22 Canal St.

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.



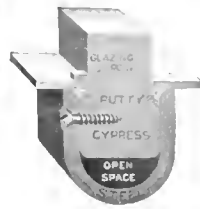


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CYPRESS
GREENHOUSE
MATERIAL**
IS THE BEST.
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FOLEY MFG. Co.
471 W. 22ND ST.
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FOR FREE CATALOGUE
"VENTILATING
APPARATUS,
FITTINGS
HOT-BED SASH."
WE MAKE SKETCHES
AND ESTIMATES-

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**SCOLLAY HOT WATER
and STEAM BOILERS**
JOHN A. SCOLLAY
73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address
John G. Esler, Saddle River, N. J.



EVERY MAN who is on the lookout for improvements in greenhouse construction or who doubts if we really have an improvement, couldn't do a better thing than send for this catalog. It's not that kind of catalog which at the start, sweeps every other construction off the face of the earth as "out of date," but it gives in an interesting, brief way just why we use the U-Bar — how it started and what it is now doing.

If you want construction is there — if isified with cuts show will find it lustrated. the best we



the technical tion side, it you are sat- what the up then you liberally if- It's printed know how.

Send for it.

Pierson U-Bar Company, Designers and Builders U-Bar Greenhouses, Metropolitan Building, 4th Avenue and 23rd Street, New York.

GURNEY HEATERS
FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE BOSTON 74 FRANKLIN ST

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL

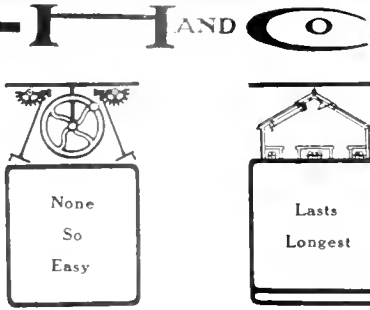


Indestructible Green House Bench

Built under the Pat. Patent

The bench is in construction consists of cement gravel and concrete elements. A cement bench lasts a long time, and is not removed any time and anywhere. All work is guaranteed in reach of every first class bench. The bench is made of other material used in greenhouse, but is not so readily furnished up or applied by giving us the name of the benches you might want to build or buy. Manufactured in 1906.

WM. F. KASTING, 383-387 Ellicott Street
BUFFALO, N. Y.
Sole Owner of Patent



On the Lookout.

The florist is a progressive chap—wants new things—things that give him an advantage over the man without them or makes competition possible with the man with them. But there are a few time-tried things that are so simple, so good, so sure, it costs you money and experience to change—our ventilating apparatus is one of these things—no criss-cross levers—no chain or cables—just the gear and arm principle. Easy to put up—easy to operate.

HITCHINGS AND CO.
GREENHOUSE DESIGNERS AND BUILDERS.
 Manufacturers of Heating and Ventilating Apparatus.
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THEN COMES THE SET UP TEST

Before a Burnham boiler is shipped to you, it is entirely set up. All joints made—all bolts screwed up just as it is actually done when put up at your greenhouse—then comes the final test under high pressure.

This final test not only means your insurance against leaks, but that all parts will go together perfectly—no fitting, filing or struggling together of parts—and that means both time and freedom from breaking strains on your boiler.

Lord & Burnham Co.
 GREENHOUSE DESIGNERS
 and MANUFACTURERS

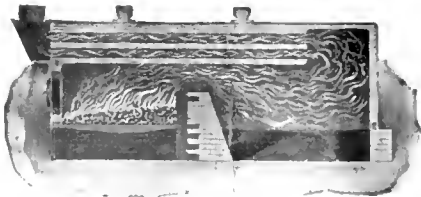
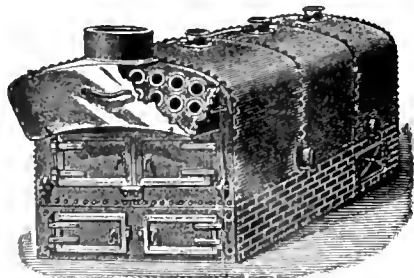
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 Boston Branch: 819 Tremont Building



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Greenhouse Boiler,
 35 Erie Street, CHICAGO.



Boilers made of the best material, shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.



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 Save you money

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 BUFFALO: Geo. L. Russell, 145 Main St.
 CLEVELAND: M. W. Wise, 563 Hough Ave.

N. TONAWANDA,
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GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.
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In a Premier Greenhouse—

all good points are combined. There's durability, artistic appearance, ease of erection—and—ease of RE-erection.

It's a better house than is usually built; the price is ONE THIRD of that usually charged.

Send for booklet No. G-48.

Chas. H. Manley,
 Premier Mfg. Works, St. Johns, Mich.

STANDARD PLATE GLASS CO.

Manufacturers, Importers and Jobbers

AMERICAN AND FRENCH GREENHOUSE GLASS

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BOSTON, MASS.

WEATHERED COMPANY

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GREENHOUSE BUILDING AND HEATING

Send for Catalogue.

HORTICULTURE

Vol. IV.

SEPTEMBER 29, 1906

No. 13



NATHAN BISSON

Devoted to the
**FLORIST, PLANTSMAN,
LANDSCAPE GARDENER**
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place,
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Subscription, \$1.00

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Inaugurates the operative commencement of the two consolidated wholesale houses of Philadelphia where

The Florists of the Universe

will make no mistake in trading. New firm, new methods, new growers, new customers — everything up-to-date all along the line.

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THE WHOLESALE FLORISTS OF PHILADELPHIA

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The illustration gives some idea of Stenanthium when in full bloom, but inadequately conveys the beauty of the delicate, feathered drooping flowers.

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NEW TRUMPET DAFFODILS.

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SPECIAL:—To October 15, ten per cent. off for strictly cash with order for plants in this list, to make room for Bedding Plants

	Per 1000	Per 100	Per Doz.
ASPARAGUS, Plumosa Nana, from 4 1/2 inch pots.....		\$10 00	\$1 35
ASPARAGUS, Plumosa Nana and Sprengerii, from 4 inch pots.....	75 00	8 00	1 10
Same from 3 inch pots.....	45 00	5 00	65
Same from 2 1/4 inch pots.....	22 50	2 50	35
FERNS, Boston and Piersonii, from 10 inch pans, each	\$2 00		20 00
" " " " " Anna Foster and Sword; all pot grown.		1 00	10 00
6 inch.....	\$40 00		\$5 00
4 inch.....	125 00	15 00	2 00
3 inch.....	75 00	8 00	1 00
2 1/4 inch.....	30 00	3 50	50

I also have a few thousand bench-grown FERNS for 4-5-6 inch pots. Prices on application as long as they last.

FERNS, Piersonii Elegantissima. Of this I have a very fine lot from

4 inch pots..... \$36 00 \$4 00

3 inch pots..... 125 00 15 00 2 00

2 1/4 inch pots..... 70 00 8 00 1 25

DRACENA Indivisa; 4 inch \$8.00, 3 inch \$5.00, 2 1/4 inch \$2.50 per 100.

PALMS, for growing on; we want to clear them out at a special bargain.

" Kentia, from 3 inch pots..... \$10 00

" Phoenix Canariensis, from 4 inch pots..... 15 00

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" from 2 1/4 inch pots..... 18 00 2 00

ALTERNANTHERA, R. C. 4 varieties, 4 00

Bedding Plants, all other varieties. Prices on application.

CANNA ROOTS. For orders booked before Oct. 15th for Fall delivery.

	Per 1000	Per 100
Bronze leaved, Discolor, for foliage.....	\$7 50	\$1 00
" " Robusta, " "	6 00	80
Burbank, yellow flowers.....	6 00	80
Chas. Henderson, red flowers.....	10 00	1 25
Allemania, variegated red and yellow flowers.....	7 50	1 00
Tall Florence Vaughan, var. red and yellow.....	10 00	1 25
Mlle. Berat, pink flowers.....	10 00	1 25
My selection of above and other named varieties, per 10,000.....	\$60 00	
Bronze leaved, mixed.....	5 00	70
Yellow shades, "	5 00	70
Red " "	5 00	70
All " "	4 50	60
All " " separate, per 10,000.....	\$45 00	
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" " transplanted.....	6 00	75
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" " " " 2nd "		3 00

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Price \$12.00 per 100, \$100.00 per 1000

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	100	1000
RICHMOND ROSE 2 1/4 in.	\$12.00	\$100.00
KAISERIN " "	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
ENCHANTRESS	3.00	25.00
QUEEN and LAWSON	2.00	18.00

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DAHLIAS. Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

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 ATCO, N. J.

Ornamental Conifers



So much has already been written about conifers that it may at first appear quite superfluous to say more; but I have often been asked, particularly by young gardeners, to write something on this important subject, and that is why I have taken the liberty to ask the editor of *HORTICULTURE* for some room in his estimable paper to tell something of my experience with these noble and beautiful trees, hoping it may prove of some interest and value to those young people who would like to know more than they might expect to learn through the ordinary course of florist practise. That the topic is a worthy one nobody will deny and anything that we can do to develop a wider appreciation for the evergreens, bring them into more general use as decorative objects about our houses and tend eventually toward the reforesting of the vast tracts of our country once covered with evergreen grandeur but now devastated, should be done.

It will be my object in these articles to cover as nearly as possible the list of conifers that are hardy or about hardy in New England. The word hardy is used here not in an absolute sense. It is well to know that what is hardy in one place may not be so one-half mile away, and consequently the list may include some trees that would not stand in every situation. Here in Stamford, at Mr. Lowell M. Palmer's place, during the past twelve years we have tried nearly all the conifers on the market, here and abroad. We lost a great many but what are left to-day can be considered as hardy and these are the ones I shall try to describe briefly as to their commercial and horticultural value. Amongst them will be found some that are not much in cultivation as yet.

Conifers are best used in big beds or as isolated specimens. They do not show well when mixed with deciduous trees or shrubs, except in a few cases, as, for instance, Norway spruce or pines mixed with a few white birches for a background; in any case they should not be crowded, for if too near together they soon lose their lower branches, and a conifer to show its full

beauty should be furnished with branches from top to bottom as long as possible.

Grouping conifers is a matter of taste and to do it satisfactorily is not an easy task. Generally when a bed is planted the trees are small and if placed at the right distance the bed looks empty and lacks display effect. This is the reason why they are always planted too closely at the beginning. After a few years the trouble begins and there is no end of moving and transplanting; the best way to avoid that trouble is to plant directly at the proper permanent distance according to their future size of growth, the color and forms well assorted, and then fill up between with common and cheap kinds that can be cut back in the beginning, and taken out altogether gradually as room is needed. Spruce, firs, pines and other big-growing species ought not to be planted in beds; the common ones can be planted in masses for wind break or background and the rarer ones isolated or in clumps of three, five, or more, on the corner of big lawns at least twenty feet apart, or any way to give good vistas. In many places conifers are planted in beds as regards color only, without consideration of their size of growth, and as close as one or one and a half feet apart; that is certainly a matter of taste, but they do not last long; they soon kill one another. Some conifers are also used for formal work, as in hedges, or cut down to different fancy forms; that is another matter of taste. Hedges are all right, but I think there are enough conifers of a sufficient variety of natural shapes that can be used in formal work without marring the natural beauty of a tree by clipping. The clippers can be used on conifers, but sparingly to keep the symmetry of a tree, or, where they grow too close together, to prevent their interfering with one another.

Everything has been said about transplanting conifers in the fall with frozen balls in winter or in the spring. Young conifers can be transplanted with as much success in the fall as in spring if enough water can be given. August is better than October, for they

have then time to make new roots before frost. For big conifers, if they are to be shipped a great distance, I would prefer spring planting, except for trees that are in first-class growing condition. Transplanting a short distance, with all of the apparatus in use for that purpose, can be done just as successfully in fall or spring or when frozen in winter. For very big specimens I prefer the last mentioned; big frozen balls are easier and less expensive to handle than soft soil that wants special preparation. The care to be given after transplanting everybody knows—plenty of water and heavy mulching.

Conifers in general are subject to variation in size and color due to seed propagation or climatic condition. In their wild natural state some fine forms have been found with longer or shorter needles; compact, erect, or spreading habit, and in more or less intense blue or yellow in color; some such have also been raised from the seed beds. A curious fact to be noted about variation is the tendency of some of the American conifers to take that blue color in certain localities, which is so seldom seen in the conifers of other countries. In Japan the blue is found only in a few instances, the yellow and variegated seeming to prevail. Some of these forms reproduce themselves in a great percentage from seeds, if the seeds are taken from strongly marked specimens. Many of these forms have been propagated and sold by the nurseries and these include some of our most ornamental trees.

The best way to propagate them all is from seeds when seeds can be obtained. When seeds are not obtainable they can be made by grafts or cuttings. Grafting is the quickest way; a one-year-old graft is about equal to a three-year-old cutting, and except arbutus, retinospora, some junipers and dwarf spruces there are many that cannot be propagated by cuttings. Abies are grafted on *A. pectinata* balsamica; Picea on Norway spruce; it is easier to get hemlock on hemlock, varieties of arbutus, retinospora and thuyopsis on each on arbutus, juniperus according to species on red cedar or a common juniper, five needled pines on spruces and the others on any common kind easy to get.

The stocks to graft on are to be put in pots in spring, the pots half buried outside and mulched, and left there until they have seen a few degrees of frost, when they are taken out and in December or January they begin to move and can be grafted with grafts taken from cuttings. All during the pots are buried in moist sawdust or moss (or manure in the greenhouse with a bottom heat of 50 to 75 degrees). They have to be a red color, moving, and damp not wet, but watered when necessary. In six weeks they begin to "take" after a good frost; the wild stocks are cleaned of shoots and the plants can be put in an ordinary greenhouse and hardened.

Am. Ed. H. Am.

(continued)

Rose House Wisdom

The paper read by John H. Dunlop before the Canadian Horticultural Association was certainly an admirable one. In it he says: "Have we not men who feel the necessity and have the courage to risk the raising of seedlings, who are spending time and money in the endeavor to give us something more and better suited to our requirements?" Mr. Dunlop was in the business before many of us ever thought of knowing anything about roses, when we were simply groping our way. I know it is a tedious undertaking to raise something that will suit the requirements of the average rose grower, and something that will be appreciated by the public, and last—something that can be made to pay for the space which it occupies, but the great trouble has been that when a rose has been found to suit many of the above requirements its opportunity has been simply killed by over propagating, or, by using rooting or grafting wood that is entirely unsuitable for the purpose for which it was intended.

I have no axe to grind in this matter; I simply give my views. Value ought to be given for value received and if thirty cents to one dollar per plant is charged, then value for that amount ought to be given as it is surely expected. Sected wood ought to be used even though it takes one year longer to get it. Many a man has invested in something new and has been disgusted with the results attained the first year. I saw a house of a certain rose grower came out with glowing descriptions, to fill a long felt want; the plants in question were own-roots wood, I think, in May; they had been propagated from very weak and small wood, but the price was as advertised. They had to be coddled, better than ever, and the following spring they were fairly good plants, but almost nothing had been got from them that year. Had this same space been used for something different the bank account would have been made larger. And the year after a new rose has been sent out the same thing is again gone over; the demand is great from those who didn't buy the first year, then the stocks is sometimes subjected to another set-back by those having a taste for topping young plants and rooting the seedlings, then running them perhaps hot to get something new. Cut all this out, and the rose-growers' pain would be as thorny as it has been in the past.

"See him, the poor man's friend in need,

The good man in word and deed."

This applies to Mr. John Birnie. I have just read in the columns of a contemporary that John received his sheepshead from the honorable title of Gentleman. I have never known him to be that but it fell to the west of me to hand him his diploma.

Robt. M. Brown.

Plant Tissues

In view of Mr. Chandler's recent observations on the growth of cambium tissue in *HORTICULTURE*, Sept. 8, 1906, the following notes on plant tissues may be of interest.

All our common higher plants are composed of innumerable small cells. These cells differ very widely from each other in shape, size and texture according to the work they do. Any group of similar cells is called a tissue. In a tree, such as the silver maple of Mr. Chandler's experiment the various tissues may be classified according to function into five groups.

1. Formative tissues. These are composed of very small thin walled cells which are meristematic, i. e., capable of active division and growth and which give rise to all the other tissues in the plant. The cambium tissue is one type of formative tissue. I shall speak of these meristematic tissues in detail but will first mention the remaining functional types of plant tissues.

2. Protective tissues. These are of two kinds: first, tegumentary or external including epidermal tissue (epidermis, hairs and scales), cork and bark. The epidermis of young twigs is soon thrown off and is replaced by the dull, gray cast cells forming the outer bark of older twigs and limbs. Second, mechanical, usually internal and always dead tissue when performing its natural function. These are well illustrated by the surrounding sheath of the rough threads in corn pith. Each such thread is a bundle of tubes for conducting sap up and down the stem. The bundle is securely supported on the outside by long, thick walled fibre cells. These strengthening cells are pointed at the tip to make end contact stronger and in some plants have swellings and irregularities on their side walls to dovetail the cells together into a firm, solid tissue.

The fibres do not surround the bundle uniformly but are grouped mainly in two regions. This arrangement is a direct adaptation to function. The fibres form two broad bands, one on the side next the centre of the stalk and the other in the opposite position. The lateral or radial sides of the bundle have few thick walled cells. There is thus formed a girder structure with the strongest tissues where the swaying of the stalk would throw the greatest stress upon the bundles. The other conductive cells forming the body of the bundle serve to tie the two strengthening areas together just as the narrow piece of steel connects the heavy upper and lower surfaces of a car rail. The absence of many thick walled cells on the radial sides of the bundle permits of free passage of liquids to and from the tissues through which the bundle goes. The girder, hollow cylinder and other fundamental structures of architectural design are found to be abundant and complex in the strengthening tissue of plants.

3. Nutritive tissues. These tissues are always living cells while performing their natural function and include the following types:

a. Absorbing tissues, the root hairs and the young cells of the soil solution which are taken into the feeding vessels.

b. Assimilating tissues, cells located in the leaf and containing green chlorophyll bodies which absorb energy from the sunlight and thus assimilate carbon from the air to build it into starch compounds for plant food.

c. Conducting tissues, the veins of leaves and the fibrovascular bundles of stems as the corn fibres already referred to. Some of these ducts are long tubes formed by cells connected end to end from which the cross partitions have largely disappeared. Through such modified cells liquids pass readily to all parts of the plant.

d. Food storing tissues. The epidermal cells store up water. They are found to be quite empty in time of drought and full when the water supply is large. The wood cells of many winter twigs are well filled with starch, particularly in the early blooming plants. Tubers and bulbs are store houses for plant food and even small seeds contain tissues which are filled with reserve food material.

e. Acreting tissues, the elaborate stomate structures or breathing pores of the leaves.

f. Secreting and excreting tissues. Examples of these are water glands, resin glands, nectaries secreting the honey dew of flowers and crystal bearing cells. The most common crystal in plant tissues is calcium oxalate. These crystals are excreted to rid the plant of extra calcium.

4. Special tissues and apparatus for particular duties such as holdfasts, parachutes, floating devices, organs for receiving and conducting stimuli and hygroscopic tissue which in drying serves to open fruits.

5. Reproductive tissues. These are the outer flower parts, sepals, petals, stamens and pistil which are leaves variously modified to aid the plant in the production of seed. The real reproductive agents, the pollen cells and the ovules which produce the male nuclei and the egg cells are active meristematic cells and would fall in the category of formative tissues. When a male nucleus fuses with an egg cell nucleus the egg cell resumes meristematic activity and will develop an embryo plant. By the union of such reproductive elements the characteristics of the parent plants are transmitted to the offspring. The egg cell now becomes a germ cell whose protoplasmic contents is uniformly charged with the possibilities of the parent plants. Environment does things to this living tissue and it responds in certain ways as its inherited properties enable it. Such an embryo plant with its stored food supply and protective coverings is called a seed.

With this brief explanation of plant tissues we will return to the discussion of formative tissues and how a tree grows in height and diameter.

B. M. Curtis.

British Horticulture

HORTICULTURE IN THE SCHOOLS

The work of the Society of American Florists in encouraging the spread of horticultural knowledge amongst the young has its counterpart in this country. In a chat with Mr. Walter P. Wright, the Hon. Sec. of the Horticultural Education Association, I gathered that encouraging progress is being made in the department of horticultural instruction at elementary schools. In many countries garden plots are attached to the schools and the scholars are induced to vie with one another in the successful cultivation of their gardens. The plots are inspected by the Horticultural Superintendents appointed by the various County Councils. There is now a keen desire in several centres to equip the teachers for giving instruction in gardening subjects. A party of masters have lately undergone a course of instruction at the South Eastern Agricultural College, at Wye, whence they had the advantage of the experienced "coaching" of Mr. W. P. Wright, the Horticultural Superintendent. The Horticultural Education Association are endeavoring to induce the educational authorities to give increased facilities for this branch of study at the schools. The Departmental Committee appointed by the President of the Board of Agriculture to deal with the fruit industry, reported in favor of greater attention being paid to horticultural teaching in all the elementary schools, and it is hoped that this will eventually be acted upon.

DISEASE AMONGST THE HOLLYHOCKS

Many of the hollyhocks both in private and in nursery gardens have this year been the victims of a virulent disease. It is the same pest which some years ago was prevalent in this country, and almost drove the hollyhock out of cultivation. Then it was eventually suppressed, and these attractive flowers have since become very extensively cultivated, but it appears that we have not entirely surmounted the difficulty. A friend who makes a feature of hollyhocks this season found that all his plants were almost leafless, and the few leaves which came were spotted and blotched. They showed some signs of disease when they were planted last autumn, but as the result of a heavy dressing of artificial fertilizers they improved so much that it was hoped they were cured. In the hot dry weather of June the disease made a serious havoc, the leaves quickly disappearing. The disease is that it develops inside and not outside the leaves, consequently no fungicide sprayed over the foliage can reach it. Spraying is futile to cure an infected plant. All that is possible is to prevent the spread of the disease to plants still healthy. For many years the hollyhock has been a popular hardy plant in Britain. It was one of a century ago, Messrs.

Kelway & Son, with the late Lord Hawke and one or two other growers, increased its popularity by the splendid specimens exhibited at the leading shows.

A NEW ROSE

Messrs. Wm. Paul & Son of Waltham Cross, have made an acceptable addition to the long list of roses in introducing Earl of Warwick, a new H. T. Its parentage is The Queen of Souv. de S. A. Prince crossed with Mrs. W. J. Grant. The latter is a very great favorite rose, known in America as Belle Siebrecht. Earl of Warwick has found many admirers at this year's shows. It is of splendid growth, hardly as late as Mme. Abel Chatenay. The shapely blooms are carried well on the stems, frequently in threes, but sometimes in singles or clusters. As a standard this new-comer will evidently become exceedingly popular. The new variety is of a salmon tint with bold shell-shaped petals. It has stood the present unfavorable season remarkably well, and it is regarded as a serious rival to such well-known varieties as Mme. Abel Chatenay and G. Nabonnaud. There is no lack of novelties amongst the varieties which will be offered by our leading rosarians. This continued activity in raising new kinds must tend to increase the number of those who show allegiance to the "Queen of Flowers."

W. J. Adsett.

A Beautiful Tree

Prof. Hansen who for years has been superintendent of the State Experiment Station of South Dakota has recently introduced a fine tree from Russia which he has named the Niobe willow.

The professor is a great Rambler. He often takes a camping outfit and goes hundreds of miles to hunt up the best types of sand cherries, native berries and wild plums. When he goes to Russia his eyes are open for anything that is hardy and beautiful. He discovered a weeping form of the Russian golden willow and immediately commenced propagating it. What we have long needed is a weeping willow of a hardy type suitable for the East and West, and for the bleak northern regions. The Wisconsin, Komarnock, Babylonia and Tharlow willows are not always hardy, but this seems a success every way. We have about 1000 growing at the State Experiment Station here in York, Nebraska, and though this has been a very hot and dry summer yet they have done remarkably well. The clear and rich yellow of the bark in winter with the graceful pendulous habit make the tree very attractive.

C. S. Harris.

Clematis heracleifolia



This clematis appeared as a seedling in the garden of E. F. Dwyer, Lynn, Mass., and blossomed first in August, 1904. The flowers which are very fragrant, are produced in great profusion as the photograph shows. They are white shading to a delicate blue on the tips and margins of the petals. The plant is a very

strong grower, covering a trellis 9x10 ft. and blooms through the month of August when there are but few vines in flower. The plant was inspected by the garden committee of the Massachusetts Horticultural Society this season, who awarded it a first-class certificate as a form of *Clematis stans* which is a variety of *C. heracleifolia*.

Fall Web Worm

The large webs conspicuously placed on many fruit and shade trees, hedges and roadside shrubbery are the homes of the fall web worm—*Hypathantia cunea*—(and not of the brown-tail moth, as many people suppose).

The four or five hundred eggs of this moth are laid during the latter part of June or in July on the underside of the leaves of almost any large bush or tree. Soon hatching, the young caterpillars begin to consume the foliage, eating at first only the pulpy parts but as they grow, consuming more and more of the leaf, until all but one or two of the larger veins is eaten. Almost from the first they spin a protecting web which is enlarged from time to time as food or room is required, until it is sometimes three feet long.

At first the caterpillars are pale yellow, sparsely haired, with black heads and two rows of black spots down the back. By fall they become mature, and are then one inch long, with black head, black markings and thickly covered with tufts of long yellow hairs.

They now drop to the ground and form a slight cocoon under stones, sticks, rubbish, or just under the surface of the ground. Here they pupate until the following June when the moths appear. These have a wing expanse of about 1 1/4 inches and are white in color with varying dots, stripes and streaks of black. There is con-

siderable variation in the markings, some moths being nearly white, others conspicuously spotted.

Farther south there are two broods a year.

In most of the country it is a serious pest to shade trees more from the unsightly webs than from the damage done, for natural enemies keep the insect in check except during exceptional seasons.

Early spraying before the web is formed will protect the tree. The young can be crushed, or the webs may be cut off and burned. When the latter method is pursued it should be done early while the web is small. Then it is only necessary to sacrifice a twig and not several large branches.

R. J. Adams.

It is not a matter of wisdom or the need of including Horticulture in your advertising list for the coming season, because of the fact that the progressive growers of the country read regularly, as an advertising medium, the magazine if they did not find it to their advantage to do so. Give me, opening 2900, your name and address, and I will get you a copy of the first issue of the magazine, and a proposition on the subject of advertising in Horticulture.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

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WM. J. STEWART, Editor and Manager.

Our readers' interests are our interests

HORTICULTURE is at all times glad to hear from its readers on any topic that pertains to their or its welfare. This paper is in close touch and on most friendly relations with the best informed and squarest men in the horticultural profession. If there is anything in cultural research or artistic methods on which you desire further light, make known your wish and we shall try to get a prompt response from trustworthy sources. If you find in our columns something to especially commend or anything you do not approve of we shall be glad to have you tell us and express your views concerning it. We seek the most intelligent readers and our columns are always open to contributions from those who are thoughtful and zealous, ready to give and anxious to take advice on matters of common horticultural interest. "Not by years but by disposition is wisdom acquired."

Training the children in horticulture

Horticulture in the schools is one of the interesting topics touched upon by our London correspondent in this issue. The equipment of the public school teachers so that they will be competent to instruct in horticulture is recognized there, as here, as a fundamental basis for efficient and productive work. Nearly sixty years ago Downing compared the love of nature so strongly developed in the English people and the universal fondness for the cultivation of plants and flowers about the English homes with the deplorable absence of these proclivities among the people of our own land. Observant writers since then and down to the present day have made similar comparisons to our disadvantage. If, then, in a land where flower culture is almost an instinct, the need is felt for special training and encouragement of the young to take a still deeper interest in these things how much more essential it is that the work should be taken up seriously in this country.

Clubs and societies should aid

An American florist, Mr. John H. Taylor, who has lately returned from a visit to England and the Continent, says that one thing which particularly impressed him everywhere he visited was the universal cultivation of flowers and the surprising number of florist stores, these occupying, especially in Belgium, the most desirable premises along the leading thoroughfares. That the more flowers and gardens and rural life are appreciated and the more intelligent the people in general are as regards the operations of horticulture the greater the support given to those engaged in the horticultural professions should never be lost sight of by those florists, seedsmen and nurserymen who have the intelligence to look beyond the present moment and the willingness to do something for the future advancement of their calling. It seems to us that there can be found no more sensible and effectual means to this end than a liberal and enthusiastic support of the movement now on foot to make practical horticulture a regular course in the public school system. This is a subject that is worthy of the attention of every florists' and gardeners' club and horticultural society.

To stimulate garden fruit culture

The communication in this issue, from the secretary of the Massachusetts Horticultural Society in reference to the special fruit and vegetable exhibition to be held at Boston in October is a most welcome one, for it seems to indicate the beginning of a new epoch in this great horticultural industry in a section of the country which in times gone by set the pace for American fruit growing, under the leadership of such men as Manning, Hovey and Wilder. At last the word is "Onward," after a long period of desuetude and every one who loves a garden, every one interested in seeing advancement made in garden industry and improvement in garden product, should applaud and support the work of revival which this foremost of our horticultural organizations now seeks to arouse. For nearly a generation the experiment stations have been working, investigating, experimenting, and recording results and the fruit grower, commercial or amateur, now has all this accumulated knowledge at his disposal. With these great advantages backed by the same ambitious spirit which has in recent years given so tremendous an impulse in other departments of horticulture there is no good reason why our New England fruit growers may not rival and even surpass the achievements of their predecessors of half a century ago. The awakening of the amateur element to a realization of the pleasure and health to be derived from a direct personal interest and participation in these garden operations is a wholesome sign. The schedule for the exhibition of October 10 and 11 gives evidence of a disposition to break away from hide-bound methods and we hope it will stimulate an enthusiastic support in exhibits and attendance.

WHOLESOME CHESTNUTS.

The fall is the best time to purchase and plant peonies, it is also the best time to divide peonies if such a process is deemed desirable.

When grape vines have been cleared of fruit it is poor policy to neglect them. Although not requiring such constant care as when they hold fruit, still it will pay to attend to them in the way of syringing occasionally, and removing dispensable growths.

Beds and borders wherein tulips, hyacinths or other bulbs are to be planted should be well and deeply dug before the bulbs are planted, if manure is used for a fertilizer it should be well rotted. Very few if any bulbs relish green manure around them.

Strawberries in pots for forcing now have their pots filled with roots, and will require to be well supplied with water, with the additional application of manure water two or three times a week. Plants showing more than one crown should have the weakest removed; one only should be left. The plants should be kept free from runners and weeds and care taken that they do not root into the material on which they are standing.

There is yet a little time left for the transplanting of small evergreens in nursery rows. Almost every one knows that quite a growth is lost if transplanting is left until spring but should there be a continued spell of dry weather and no means at hand for watering after transplanting it may be safer to defer the work until spring. Every effort should be made however to get as many as possible moved when indications are positively pointing to rain.

Peach and nectarine trees from which the crops have been cleared should be looked over and crowding of the wood prevented, and all growths not required for next season's crop removed; this will allow a free circulation of air around all parts. Young trees that have made very rank growth should be kept a little warmer than old trees in order that the growth may develop in all essential parts necessary for the maturing of fruit buds for next year's crop. The drying of peach and nectarine trees is now recognized to be a mistake; if the right temperature and sufficient light is given them they will mature all right.

If there is any chance of a portion of a bench in a greenhouse, either in a private or commercial place, for which there will be no pressing need until spring, tomatoes will be found to be a very profitable crop to raise there, and should the idea take root no time should be lost in getting the tomatoes to take root also. There are several good varieties of forcing tomatoes, but I do not know that there are many, on the whole, better than the Lorillard. Whichever variety is determined upon should be procured from a reliable seed house and sown in a shallow flat. When the seedlings are large enough they should be immediately potted into the smallest-sized pots and grown on in pots until they are in three inch size; when they have filled these with roots they should be planted in the bench. The plants should be grown on single stems and trained up on wires near the glass.

AQUATIC PLANTS.



Our frontispiece shows *Nymphaea Bissetii*, a new night-blooming hybrid raised from seed from a cross on *N. dentata* x *N. Sturtevantii* by Peter Bisset, Twin Oaks, Washington, D. C. The flowers are of a beautiful glowing deep rosy-pink color, 10 to 12 inches across, borne on fine stiff stems carried well above the foliage. The leaves are from 18 to 24 inches across, glossy bronzy-red above and very much crumpled at the edge. The plant is very free in flower and growth; the flowers are of good substance, shipping well, and therefore should prove profitable for florists' use. This is without a doubt one of the finest night-blooming water lilies ever sent out. A silver medal was awarded this variety by the Newport, R. I., Horticultural Society. The Massachusetts Horticultural Society awarded it honorable mention in 1905. On the same date the Massachusetts Horticultural Society gave a similar award to *Nymphaea dentata magnifica*, another new night-blooming hybrid raised by Mr. Bisset from a cross on *N. Bissetii* x *N. dentata*; differing from the latter in the extra wide sepals and petals, also in the beautiful cup shaped form of the flowers. The flowers are of the largest size, from 10 to 12 inches across and of creamy white color. The plant is very free in flower and growth. The leaves are ovate, dark green with

a light bronzing in the center, underneath reddish brown, the margins wavy or crumpled. This is a splendid flower and when better known will entirely supersede *dentata*. This was also awarded a certificate of merit at Newport.

The aquatic picture presented on this page is used to show the effectiveness of the several species of *hemerocallis* planted in masses contiguous to water scenery and in association with grasses, irises and other appropriate material.

OBITUARY.

Mrs. Emil E. Metzmaier died at her home, 1382 South Fourth street, Columbus, Ohio, September 20. The deceased had been a great sufferer from rheumatism for the last six years; was born in Freiburg, Germany, 46 years ago, and came to this city with her husband and family in 1884. Besides her husband, who is one of our prominent florists, six children survive her. Mrs. Metzmaier is well known in the trade here, and an active member of the Columbus Florists' Club; in fact, one of its charter members. In memory of the deceased the club sent a very handsome wreath of laurel, bronze galax leaves, and white carnations. The interment was at Greenhollow cemetery.

NEWS OF THE CLUBS AND SOCIETIES

MASSACHUSETTS HORTICULTURAL SOCIETY.

The Massachusetts Horticultural Society's annual exhibition of fruits and vegetables will be held at Horticultural Hall, Boston, Wednesday and Thursday, October 10 and 11.

Much interest is being shown in this exhibition, as it is the first exclusive fruit and vegetables show that has been held for some years, and the committee in charge propose to make it a grand success.

The fruit schedule offers fifty-eight classes of from one to five prizes each, amounting to \$450.00, in addition to medals. Besides the prizes for the standard varieties of fruits, two offers are made under the Benjamin H. Pierce Fund for a new seedling apple and pear.

For vegetables thirty-nine classes are open with three to five prizes each, aggregating \$400.00. Of special interest in this department will be the decorative displays for which large prizes are offered, there being seven of these ranging from \$5.00 up to \$50.00.

All persons interested in fruit and vegetable culture are invited to send their best specimens to this exhibition and to attend themselves. It will be an educational opportunity, and will excite enthusiasm and stimulate interest in these two great departments of the Society's work. The admission will be free.

Copies of the schedule of prizes can be had on application to William P. Rich, Secretary, Horticultural Hall, Boston.

COLUMBUS FLORISTS' CLUB.

Last Tuesday evening the last regular meeting for September was held at our rooms in Iroquois Hall. President Stephens and Secretary McKellar had charge of the meeting; all the other officers were on hand. There was a large amount of business to be disposed of. Amongst other matters, the question of increasing the annual dues was discussed at length, resulting in a committee, consisting of Woodrow, Faxon and Wedemeyer, being chosen to investigate and report at the next meeting. Vice-President Curry was appointed to award the prizes for the best school gardens. The perennial question of better quarters for the club again revived. Our members are now in real earnest and something must be done. McKellar and Faxon were empowered to find a suitable club room. Another active member was added to our rolls in the person of Edward Helfrich, who is the florist and gardener at the Imbecile Institution. As the annual election of officers takes place the last meeting in October, nominations will be in order at the next meeting. M. B. Faxon and Guy H. Woodrow addressed the club on economic questions of management, and a discussion followed. The next meeting will be Tuesday evening, October 2.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

General Park Nursery, Topeka, Kansas, submits for registration the following cannas:

Sunburst, a seedling of Souvenir de Antoine Crozy. Identical in foliage and habit with its parent. Bloom differs in that there is no yellow edging, but large yellow blotches on the under side. The flower is large, bright crimson in color, and truss is rigidly upright.

Topeka, a seedling of Charles Henderson. Foliage very heavy and glaucous, habit extremely sturdy, compact and robust. Bloom larger than Henderson, color rich crimson with distinct bright yellow shading along the lower edge of staminodia.

WM. J. STEWART, Secretary.

PASADENA GARDENERS' ASSOCIATION.

The regular meeting of the Pasadena Gardeners' Association was held on September 14 in the G. A. R. hall. Vice-President John Blake occupied the chair. This was one of the most interesting meetings of the season. Otto Hentchy, who has just returned from a trip to Europe, gave a very interesting talk upon his travels and what was doing over the seas. The meeting was well attended. The secretary stated that the Spring Flower Show had proved a complete success in every way, and the interest evinced by exhibitors and visitors alike showed that the efforts of the association towards the encouragement of horticulture and floriculture were appreciated and was a source of much satisfaction to the promoters of the exhibition. The report showing that there is still money on hand for the building up of another show, it was finally decided to hold one early in the spring of 1907.

HERBERT E. GEORGE.

AMERICAN CARNATION SOCIETY.

Carnation Registered.

By Dailedouze Bros., Flatbush, N. Y. "Welcome," a pink sport of Mrs. T. W. Lawson, the color of a Bride-maid rose. Identical with its parent excepting in color and calyx which seldom bursts. Color and habit permanently fixed; now in its fourth year.

N. B. This variety is registered provisionally and subject to the approval of the Judges at the show in Toronto, Canada, next January.

ALBERT M. HERR.

Lancaster, Pa. Secretary.

The clambake, which has become an annual feature with the Dutchess County Horticultural Society (N. Y.), was given under the auspices of W. C. Russell, manager of the Diedrich place, Millbrook, on the afternoon of September 19th. Mr. Russell was assisted by Wm. Knauss, E. Lyman Brown and Robert Good of the society.

AMERICAN POMOLOGICAL SOCIETY.

The Kansas City meeting of this great national society was one of the most notable in its history. It was held in the heart of the rapidly-developing middle west, and was attended by a representative gathering of noted pomologists from all parts of the country. It follows that an interesting and valuable report is the result. This report was distributed to all members in good standing by Secretary John Craig, of Ithaca, N. Y., early in September. It is available to all who become members of the organization. It is made up of three principal divisions. First, a record of the papers presented and discussions which followed during the three days' sessions. Second, a valuable chapter giving the horticultural history of six of the states of the southwest—absolutely new historical data. Third, the reports of the standing committees of the society, including one on inspection of apples; one on score-card judging; and the exceedingly comprehensive report of the general fruit committee which authoritatively depicts the condition of the fruit industry in all its phases in every state in the union as well as the newer dependencies and the provinces of Canada. Membership in this national society is open to amateur and professional fruit growers alike. The president is L. A. Goodman, Kansas City, Mo.; L. R. Taft, Agricultural College, Mich.; secretary, John Craig, Ithaca, N. Y.

THE TORONTO GARDENERS' AND FLORISTS' ASSOCIATION.

This association held their regular monthly meeting in St. George's hall, September 18, with a large attendance. Reports of representatives to the Ontario florists' exhibition to be held in Massey hall, November 6-10 indicate that this will be the most successful chrysanthemum show ever held in Canada. The famous Black Dike Band of Lancashire, England, has been procured at great expense and will play twice each day and one-way first-class fare has been secured on the railways.

T. Manton gave a very interesting address on "The Summer Care of Orchids in our Climate" and showed plants of Cattleya Trianae and labiata. He advised growing them outside from June to September first, with only a slat covering to break the strong rays of the sun, constant syringing with rain or soft water, and a potting compost of leaf soil and crocks with a bit of fern root on the surface for the top root to cling to. An interesting discussion followed.

The association is already beginning to get a hustle on for the visit of the American Carnation Society in January. A committee of three or four from each of the horticultural societies in Toronto will form a board of management and entertainment, and the event promises to be a memorable one.

E. F. COLLINS, Secy.

NATIONAL NUT-GROWERS ASSOCIATION.

A MEMORIAL WREATH.

Our association bids fair to increase in membership and usefulness. Every generously inclined member could aid in encouraging our people to learn the art of propagating and growing nut trees. Nut growing is destined to bring more wealth and happiness to the South than every other industry. In the cause of this special line of horticulture, let us appeal to every person who has succeeded in growing nut trees to join our association, and contribute their mite to the common store of knowledge of this art of propagating and growing nuts.

The world is calling for these delicious fruits, so well adapted to our soil and climate, and our people are famishing for knowledge to aid in growing them.

All who wish to contribute to the general prosperity of the most favored people on earth should cast their lot in this engaging work, become members of the association by sending two dollars to the secretary-treasurer, Dr. J. F. Wilson, at Poulan, Ga., and as far as practicable, attend the session of our fifth annual convention at Seranton, Miss., Oct. 31 to Nov. 2, 1906.

E. W. KIRKPATRICK,

President.

CLUB AND SOCIETY NOTES.

The New London County Horticultural Society (Conn.) held an exhibition of dahlias, asters, etc., on September 22d.

The annual chrysanthemum exhibition of the Lenox Horticultural Society will be held in Town Hall, Lenox, October 24, 25.

A. N. Pierson of Cromwell, Conn., and A. J. Sloper of New Britain, made notable exhibits of plants and flowers at the fair of the Berlin Agricultural Society (Conn.).

An increasing interest was shown in the flower show at Orange, Mass., on September 12, and it is hoped that the result will be the formation of a horticultural society at an early date.

The Illinois State Florists' Association are sending out to the florists in the State a circular reminding them of the floral display at the State Fair, September 28 to October 6, and soliciting their interest to make it a success.

The fourth annual exhibition of the Huntington Horticultural and Agricultural Society (N. Y.) held on September 20 was most successful in every department. The judges were G. T. Powell of Ghent, Alex. McKenzie and E. V. Titus of Glen Cove.

The Westmount Horticultural Association, Westmount, Que., an amateur organization, held its first exhibition of autumn flowers, foliage plants and ferns was very encouraging for the success of future exhibitions. The officers of the association are: Pres., J. T. Loekhart; secretary, H. J. Ross. The judges were C. A. Smith, Lachine; Joseph Bennett and John Walsh of Montreal.



This beautiful wreath of laurel, cypress leaves, and dark purple asters, was the offering of the Columbus Florists' Club, as a tribute to the memory of our late president, at the unveiling of the McKinley memorial monument by Mrs. Nicholas Long-

worth. These ceremonies took place at Columbus, Ohio, Friday, Sept. 14, 1906.

The committee from the club in charge of the matter were: Messrs. Albert Knopf, Guy H. Woodrow, and M. B. Faxon.

NORTH SHORE CHAT.

Eagle Rock, the new residence of H. C. Frick at Prides Crossing, will occupy a prominent position among the fine estates which line the north shore of Massachusetts from Beverly Cove to Magnolia. George Vinus, formerly with W. H. Myers, Cambridge, Eng., and later with J. B. Chambers, Leedsdale, Penn., is the gardener under whose direction all work in the horticultural department of the establishment is being carried on.

Thirty carloads of shrubs have been planted. Levels for lawns and drives have been radically changed, large trees have been moved and rocks and ledges blasted out. In front of the house which overlooks the sea, a tropical flower garden will be instituted. Greenhouses, which will take in practically the whole range of fruit

flowers and vegetables grown under glass, are to be built.

Although Mr. Vinus is somewhat solicitous as to how the hybrid rhododendrons that are massed in an irregular line at the back of the lawn and are an important feature of the landscape scheme, will pass through their first winter, work in his department is progressing along satisfactory lines and Eagle Rock will soon become one of New England's most stately homes.

The improvements, contemplated and in progress, upon the ground of L. B. Bemis at Beverly Farms, have made the services of a competent gardener necessary, and James Davey formerly with M. J. Connolly at J. B. Thomas' has been engaged for the position.

W. A. Maguire formerly with A. C. Fieldfield of Dorchester has taken the place of Mr. Bourne as gardener for G. A. Shaw, Jr., at Prides Crossing.

SEEDSMEN AND CIVIC IMPROVEMENT.

Address by J. Horace ... Garland, President American Civic Association, before the American Seed Trade Association, Toledo, Ohio, June 26, 1906.

Civic improvement is a phrase which makes but a vague impression on many minds. There may arise a thought of ash cans and garbage receptacles, a memory of women's work and worry over unpleasant conditions long endured, a feeling that civic work is a sort of philanthropic diversion, akin to foreign missionary effort. Few consider interest in the improvement of home and national living conditions as a business matter, and there are not many who are ready to give it more than a passing thought, unconnected with the incurring of any expense.

To the fact that there are a few who willingly interest themselves in civic improvement the organization for which I speak owes its existence, and that this few tends to become many I am glad to testify. The growing appreciation of the great business importance of securing the best possible conditions of city living, both in respect to administration and as to physical details, is most encouraging. That an organized body of active business men such as this should be willing to consider the relation of its members to civic improvement is further deeply significant of the wholesome trend of the times.

Let me briefly define civic improvement as now understood, in order that our consideration may proceed upon a rational basis. We of the American Civic Association hold that our work has to do with making America at least as beautiful and as clean about the habitations of man as it was before civilization unthinkingly defiled it. Upon this simple basis there is a considerably varied structure of definite detail which I may but mention in due course, first seeking to firmly establish the premise.

That the forests and plains, the mountains and meadows of America were originally most beautiful and completely sanitary needs no argument. That as man has subdued the natural features to his necessity and his profit he has generally disregarded both beauty and sanitation any one can prove for himself, who will in his mind's eye contrast the remaining bits of untouched nature with the grime and garbage and ugliness that beset us so considerably in most of our cities. That as wealth has given to some, and humanitarian thought to others, a tendency toward desiring beauty in living conditions, we have begun to make, in the words of William Morris, "the habitations of man at least as beautiful as those of the beasts," is entirely obvious.

That this interest in clean and beautiful surroundings is the duty of all, and that it tends to the moral, spiritual, physical and financial benefit of all, is by no means so fully recognized. If it was, back yards would soon cease to be nasty, factories would be clean and sightly, cities would be smokeless, poleless and harmoniously beautiful,

billboards would become but a hateful memory, while parks and playgrounds would multiply much faster than the more expensive policemen, hospitals and criminal courts they tend to displace. If the economy of beauty and cleanliness was recognized, at least a part of the many millions of American money now annually spent in a definite though unconscious search for urban beauty in foreign lands would remain at home, because home would satisfy rather than depress, and our own land become in turn a place of pilgrimage for other reasons than those of mere bigness and enterprise. When we become economically wise enough to place a commercial value upon civic as well as natural beauty, our cities will come to have harmonious architecture as well as fabulous magnificence, and Niagara, the White Mountains, the Yosemite and the Yellowstone will be in no more danger of greedy desecration than the Alps or the Sistine Madonna.

No one of us stands for sordid ugliness about his own home, yet collectively we have created and do yet endure the waste of city ugliness about the streets and the public places. Each one guards the inside of his own home against the intrusion of unpleasant things that may offend the nose, the eye and the ear, but I suspect that there may be among the excellent gentlemen before me some one who is not guiltless of thrusting upon his neighbor outdoors the noisy billboard he would not want in or close to his personal habitation!

When we realize that we are constantly surrounded on all sides by the conditions of government, good or bad, that we have created for ourselves, and that we maintain, whether for welfare or otherwise, as we see fit, the personal responsibility of every citizen becomes alarming. By an arrangement of financing called insurance, we provide for the payment of certain sums, collected from all who participate, to each other in the event of death or other contingencies. When enough of us neglect to look after our insurance interests, trouble comes to us and to those whose malleasance we have long condoned. By an arrangement of franchises and financing called government, we provide ourselves at wholesale rates with police and fire protection, paved and lighted streets, water to drink, schools for our children, and sometimes parks for ourselves. When enough of us neglect to look after our governmental interests, we are all served less well than we like, and ugliness increases in the land; whereupon we foolishly blame our servants whom we have sometimes encouraged in their carelessness and venality, and cry "Graft, Graft!" By an arrangement between the skill of the grower and the skill of the seller, seeds are produced on contract and sold to the public. If the seller is careless and the grower does not "rogue" the crop, there is trouble and loss impending for some one. But, then, the seller blames himself for carelessness, as he should, and next year inspects his crops more carefully.

Is there any real difference between insurance, government and seed-growing? I can see none, in the essentials, and in each instance neglect is paid for more or less painfully. Why not, then, "rogue" the government, as we

have the seed-growers and the insurance companies, and thus get what we pay for, full value, full weight, full measure? Because we have not done this, in respect to government, there is now need for civic improvement, and this need is worth attention by all citizens, for all are affected, all concerned.

Seedsmen particularly have a relation to civic improvement, aside from their position as more than average good citizens. They deal in commodities that are involved in the movement for better conditions in cities. Each seedsmen has it in his power to foster a modern educational facility which is doing much for the cities in which it has been introduced, while at the same time actually making business in the seed trade. I refer to the establishment of children's gardens, sometimes as an adjunct to the schools and sometimes as a purely philanthropic effort of organizations or of individuals.

How many of the adult citizens of Toledo, for example, know wheat, oats, rye upon sight? It is not so many years since I employed a capable artist in New York City to make a design in which the beautiful and graceful plant of the maize, or corn, was included. When the design came to me, it showed ears of corn growing from the tips of the stalk! The artist had no corn to observe, and had never had that intimate opportunity to know about it which every boy in the two hundred and twenty-eight who are this very afternoon engaged in the Yonkers Garden School has! These lively boys, won from the gutter and the slums, know beans as well as corn, and they grow cabbage that would meet the seedsmen's ideal, sometimes.

The Yonkers Garden School is only one among an increasing number I might describe. It is not a vacation garden. It opens as early as the ground can be worked, and continues until frost. The grand woman who has inspired and financed this good work writes me thus: "You will be interested to know that approximately one-half of our garden school boys are starting home gardens, and that many girls come up to the gardens to see how their brothers work, and to plant gardens for themselves at home." Now, can any seedsmen suggest that this Yonkers effort is not worth while, or that it does not directly stimulate the use of seeds? The testimony is that many a back yard has given up its tin cans and trash to admit rows and beds of vegetables and flowers; that numerous vacant lots have been put to use in growing crops other than unpleasant weeds. Obviously, too, it is not only the present stimulation of the seed business that counts, but the production of scores and hundreds of practical gardeners among the boys and girls who are to be the men and women of a few years hence. Will these garden school-trained children altogether give up planting, sowing and reaping when they possess homes of their own? Hardly!

In Cleveland, fostered by the splendidly organized Home Gardening Association of that city, a superb work has been done and is proceeding. Indeed, the school authorities have now made gardening a part of the school work, creating the unique office of "Curator

of School Gardens," and supplying facilities in connection with many schools for intelligent gardening instruction. It was a great sight to see, last October, the children at organized garden work, under Miss Miller, the curator, at one of the schools. The home gardens there are even more important, and they have simply regenerated parts of that great city. In 1904 over 237,000 seed packets and bulbs were disposed of, at one cent each, by the Cleveland Home Gardening Association. Think what an extension of this over the country would mean in its influence on the present and future prosperity of your business, independent entirely of its influence on your taxes and the citizenship of your home cities!

A single Washington seedsman sold 125,000 one-cent packets last year. In Boston and in Kansas City very large quantities were also disposed of, and there are those in this audience who could add largely to the list, I know. It may have been already noted that there is no suggestion that seeds be given away in this work with home, school or children's gardens. The earliest efforts in this line promptly proved that that which costs nothing is worth, in its ultimate effect, just about as much. Therefore, all properly organized movements now exact a minimum charge of one cent per packet, which is sufficient, for the standard seeds used, to make the handling self-supporting. Investigation also proves that only these efforts have succeeded that are carefully organized, so that the initial work of preparing the ground and sowing the seed is followed up patiently and persistently throughout the growing season.

I have thus hinted only, without giving details, at a possibility which connects proper civic interest for seedsmen with a great business propaganda. If every member of the American Seed Trade Association would undertake to foster in his own community this simple garden school idea, and would give it half as much attention as many of us devote to partisan politics, a distinct improvement would rapidly proceed, and the extended use of seeds would be greatly fostered. Let no one think that this work will interfere with retail sales to an appreciable extent. The people who get these penny packets of staple seeds are not regular seed buyers, but they tend to become such, with success.

The American Civic Association has a department of children's gardens, presided over by a most capable expert. This department is ready to aid those who want to undertake this good work. I am not ashamed to hint that every member of this great organization of seedsmen could do nothing better for his home community, his civic conscience and his real business interests than to assume sustaining membership in the American Civic Association as a preliminary to beginning organized and active garden school work for 1907.

W. R. Boody has leased a tract of land in York, Me., to which he intends to move his greenhouses now located in Northwood, N. H. Mr. Boody located in York last spring and finds there opportunities for a growing business.

A. F. CONWAY & CO. L.R.



The illustration herewith shows a field of F. A. Conway & Co.'s improved white aster which we have received

CONCERNING EXPRESS RATES.

The reference in HORTICULTURE and other horticultural papers concerning the attitude of the express companies in not showing any disposition to relieve the nursery and florist trade and other shippers of the apparently excessive and onerous express charges, especially for local service, should attract wide attention, and call for effective action by every man having his own affairs as well as the business of the country at heart.

While competition is forcing planting material and its products to closer prices, the express companies now in a position of overbearing monopoly, demand and collect these burdensome and increased charges, with a result, that while the prices of the nurserymen and florists are being forced down, the stocks and securities of the express companies, based on the enormously increased earnings, are by leaps and bounds advancing. The recent contest between the management, and the minority stockholders of the Wells Fargo Company, demanding an increase in the dividend to 12 or 16 per cent, and bringing out in this discussion, the fact as to the enormous surplus of millions of dollars already accumulated by the express company over and above the 8 per cent, dividends heretofore paid on a largely inflated or watered capital, indicates the need of action by the public to protect itself from the excessive charges noted.

The condition was perhaps well described in a statement accredited to Mr. John Wanamaker, based upon his practical experience as Postmaster General, viz: that "there are four reasons why the demand of the people for postal reform and a proper reduction in the parcel postal rates on third and fourth class mail matter have not been complied with.

from Indianapolis, where this flower has made a good record this season as a first-class florists' variety in every respect.

"The first reason is the Adams Express Company.

"The second reason is the American Express Company.

"The third reason is the United States Express Company, and the fourth reason is the Wells Fargo Express Company." This quotation may not be exact, but it gives in substance the view accredited to former Postmaster General Wanamaker.

In the present awakening for better civic and legislative conditions, if every nurseryman and florist would, on the assembling of Congress see or write a forceful letter to his representative in Congress, and to the senator from his State, and this plan should be generally followed, there would soon be relief, notwithstanding the opposition of the interested corporations.

NEWS NOTES.

Meyers Bros., florists, were among the losers in the recent collapse of the McClain building, 11th av. and 14th street, Martinsburg, Pa.

E. N. Burt of the Goshen Floral Co., Goshen, Ind., has purchased the stock and greenhouse of A. J. Santschi, and will move them to West Pike street.

R. Engelman & Son, of Pittsfield, Mass., have purchased five acres of land for planting purposes. They intend to build several large greenhouses in the spring and extend their wholesale business.

The McRoberts greenhouses at Govanstown have been leased by the managers of The Fernery, Baltimore, Md.

A. C. Jennings, formerly connected with the T. Eaton Co., has opened a new flower store at 123 W. King St., Toronto, Canada.

HORTICULTURE

SEED TRADE TOPICS.

Mr. Edward Dungan, manager for Wm. Henry Maule is now in California and it is said his business is to find onion seed. It was reported last week in Philadelphia that Mr. Howard Earl, manager for W. Atlee Burpee & Co., was about to leave for the Pacific Coast, on the same errand. Now if any one out there is trying to hide onion seed, and has not found a cave near the summit of Mount Hood, he had better surrender at discretion, as these two gentlemen can smell onions or onion seed from afar, and once they are on the trail, nothing can throw them off, and they will surely get what they are after.

Speaking on this subject of onion seed, it really does seem as though the shortage is a fact and not a false alarm. Reports have been conflicting regarding crop conditions, but there now seems little room for doubt that we are facing the shortest onion seed crop since seed growing was established in California.

The failure of the radish seed crop in France appears to be nearly complete, and we must get along with seed from other parts of the world. American grown radish seed, particularly of the turnip and olive shaped varieties, generally develop more top, and grow pithy and hollow much sooner than the best strains of French-grown. In the long varieties the difference is not so marked. However there will be enough radish seed to carry us through the coming season and no unusually high prices need be expected.

It is reported that Kentucky Blue Grass is very short and that the seed has been cornered by some three or four firms, and if this proves correct inflated prices may be looked for. Already quotations are up nearly 100 per cent.

Potatoes are generally regarded as a good average crop, and as the latter part of the season has been generally dry, the quality should be good. However reliable data is not now at hand, but we should know conditions pretty accurately in a few weeks.

Up to this time weather has been exceptionally favorable for corn and there is little doubt of a good crop and it should be exceptionally well matured consequently of high vitality.

The Iowa Seed Co., in addition to the seven new greenhouses that are going up on their property at 30th street and Kingman boulevard, Des Moines, Ia., are erecting a warehouse with a storage capacity of 25,000 bushels at Altoona. Manager Page considers that the land in the vicinity of Altoona produces the best crops in that section.

Woods Floral Co., Wilmington, Cal., has just placed their new *Watsonia* bulbs on the market and they are on sale in the different seed houses in Los Angeles. These *Watsonias* were awarded the silver cup in the Pasadena Spring Flower Show and special award of merit in the Los Angeles Horticultural Society Show.

Conrad Appel's report on the 1906 crop of grass and clover seeds:

Concerning Grass-Seed: The result in Europe may on an average be called pretty satisfactory, so that prices for most of

them will probably not rule higher than last year.

A good crop is to be expected of *Agrostis stolonifera* (Genuine German Florn grass) provided that the weather will be further favorable.

The same refers to *Aira caespitosa* (Tufted Hair Grass), which variety will be harvested in the course of September.

Aira flexuosa (Yellowish Out Grass of the trade) however will yield a medium crop only; qualities are different; nice well-grained seed is much asked for; average qualities will likely be obtainable at last year's prices.

Alopecurus pratensis (Meadow Foxtail, The weather in Finland, the principal district of production of this sort, seems to have been favorable to the growth of this plant, for all indications point to a large yield. As to quality and prices nothing definite can be said as yet; to judge from several samples submitted so far, some lots seem to be filled heavily with larvae, which, of course, reduces the quality. Contracts could not be concluded, for some speculators have paid prices recently to farmers which are unreasonable considering the large crop and which will not be maintained. We shall see normal prices soon again; of course the business in the article will consequently be somewhat late.

Anthoxanthum odoratum (Sweet Vernal) is gathered also this year in very small quantities only and will cost again more than last season. Qualities are very different and really fine seed is scarce and much asked for. *Anthoxanthum* patch yielded well and will be obtainable in good qualities at last year's prices.

Avena elatior (Tall Out Grass) is reported from France to have suffered in some districts by continued drought; a good medium crop seems however to be expected all the same. Some of the samples submitted so far show very fine qualities, for which prices have opened somewhat higher than last season. Of Austrian and Silesian seed, which as a rule is inferior to the French produce, offers are also at hand; these districts are complaining of small yields.

Regarding *Avena flavescens* (Yellowish Out Grass true) nothing definite can be said before next month. *Bromus mollis* (Brome) has likely given a good result again, but *Bromus luermis* (Awnless Brome) has apparently suffered by unfavorable weather. Anything reliable cannot be said, however, before next month; the same is the case with *Bromus pratensis* (Meadow Brome).

Cynosurus cristatus (Crested Dogstail) promises a satisfactory crop. Some centres of production give reports already on the probable result, but it all depends upon the weather yet during the next fortnight, how the crop especially as to quality will turn out.

Dactylis glomerata (Cocksfoot) New Zealand no doubt has had as to quantity a good result; qualities, although of heavy bushelweight do not show, however, or seldom only, the bright color which we are accustomed to expect of this produce.

Reports of an excellent crop in America have weakened the prices for New Zealand seed. Samples received so far from America show a fine color, but are poorly dressed and contain a good deal of shelled grains. The larger part of the American crop is reported by American shippers to be unsuitable for export, and really fine, well cleaned qualities will apparently not be offered. New Zealand produce therefore seems to be preferable to American seed. The German Cocksfoot, which has had a good result, too, shows very seldom a really pure sample; most of the lots contain some and other weeds, also much Ryegrass, which, to take out, causes a good deal of work and makes the seed too dear. Farmers got pretty high prices all the same and it remains to be seen if the trade will take up the seed at the respective figures. The crop in Austria is reported well. France is said to have a small yield on account of drought and Scandinavia speaks about a good crop concerning quality.

Festuca arundinacea or *elatior* (Tall Fescue, true) has been harvested to satisfaction and prices for this much preferred grass will likely rule lower than in the past season, although as yet no contracts could be concluded with owners.

Festuca ovina and *Festuca durissima* (Sheeps and Hard Fescue). Owing to the low prices the acreage of these two varieties have been considerably reduced

on the whole the crop turned out pretty well, but the quality is not always as it should be, so that for nice pure lots, free from weeds, higher prices are allowed. Many lots are of light weight and contain a good deal of soil and other weeds, which causes that the loss in cleaning is rather large and prices for fancy seeds must consequently be higher in proportion.

Festuca ovina angustifolia (Fine leaved Fescue) no doubt yielded a medium crop as to quantity, but the qualities differ greatly. Good heavy seed is in brisk demand and will maintain its prices. *Festuca heterophylla* (Various leaved Fescue) and *Festuca rubra* (Red Fescue) of genuine German growth are harvested only in smallest quantities. Qualities are fair and prices will be about same as last year. New Zealand produce is quoted at very high figures and a perfect failure is reported.

Holcus lanatus promises well both as to quality and quantity.

Lolium perenne and *italicum* (English and Italian Ryegrass). According to reports received from the centres of production a good full crop of fine quality is expected, but of lighter bushelweight than in the past season. Prices will likely be same as last year, perhaps even somewhat lower, but much depends upon the weather yet during the next fortnight.

Phalaris arundinacea (Reed like Canary Grass) has in our district not succeeded well, better in the North and will probably maintain last year's prices.

Phleum pratense (Timothy). Speculators have early in the season already made the prices rise, pretending a short crop on account of a reduced acreage and enormous drought; we shall see, if this was justified. In Germany it looks as if the result is going to be a good one, and in such case, and if the prices are not too high, no doubt German seed will be preferred to American.

Poa nemoralis (Wood Meadow Grass) a medium crop; qualities turn out very different, so that good heavy seed is not obtainable much below last year's prices. Under such circumstances the purchasing is rather difficult, and it is probable that this favorite grass, cleaned up to the different grades, cannot be sold below last year's prices.

Poa trivialis (Rough stalked Meadow Grass) has given in the North a good yield both as to quality and quantity and prices for this valued grass will not be higher than last year.

Clover and Agricultural seeds. *Trifolium pratense* (Red clover). Reports on the European crop are conflicting, but in face of the fact that stocks are perfectly cleared out, very low prices cannot be expected, even if the crops will turn out satisfactory. *Trifolium repens* (White Clover) a good yield as to quantity, but quality could often be better. Market is very quiet, owing to buyers holding back, and prices will rule lower yet than last year.

Trifolium hybridum (Alsike) has done well both in America and in European centres of production and is quoted cheaper than last year. Qualities are good. *Trifolium incarnatum* (Crimson Clover) in both France and the Austrian and German districts had a large yield, so that the high opening prices could not be maintained, but had to be reduced before any important transactions were concluded. French grown seed was generally preferred, because it was not materially dearer but much better than Austrian seed.

Lotus villosus and *corniculatus* (Small and coarse grained Bird's foot Trefoil) a medium crop.

Medicago lupulina (Trefoil) a good result and prices lower than last year.

Medicago sativa (Lucerne) promises well generally, but it is said to have suffered in France considerably from drought, so that the Province will only have a weak medium crop; nothing can be said as yet about quality. There will be a good average crop of Turkestan Alfalfa.

Anthyllus vulneraria (Kidney Vetch) is offered already in quantities from Austria; information can be had yet from France.

Holcusarum onobrychis (Sainfoin) was sown under very unfavorable conditions; samples received so far show a dark color. Average yield is expected. Prospects for *Holcusarum bifera* (Sainfoin, 2 cuts) are good from France to be rather bad; considerable drought has damaged the crop.

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" Scarlet Conical Radish	.05	.10	.30	1.00

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ANNOUNCEMENT

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NEWPORT NEWS AND TRADE NOTES.

Business has quieted considerably during the past week. Many cottagers have departed, but a good deal of quiet entertaining is yet going on and the florists are faring about as well as usual at this time of the year.

The weather conditions have been unfavorable to the seasonable maturity of some kinds of outdoor flowers, especially dahlias, the supply of the kinds most in demand being totally inadequate. Now that the demand has fallen off, dahlias are not only plentiful but they are also of very fine quality. Of gardenias the supply was fully equal to the demand, at prices hardly up to the standard of former years.

Hot-house fruit paid the growers well this year. James McLeish, who grows more hot-house fruit than any one else in Newport, reports a very satisfactory season, with prices for grapes fully as good as last year, nectarines higher in price and scarcer, but the demand and price declining a trifle on peaches.

Among the visitors to the New Bedford Horticultural Society's recent exhibition were Messrs. James and Colin Robertson and David McIntosh. James Robertson, in the face of strong competition, captured in all seven prizes, five of which were firsts for dahlia blooms. The Newport visitors were very favorably impressed with the exhibits seen at New Bedford, the dahlias especially being much superior to those on exhibition recently at Newport. In fact it was considered doubtful if the quality of the New Bedford dahlias had ever been exceeded anywhere in New England. The commercial growers, of whom there are many, turned out with very large exhibits, making the competition in all classes close and exciting for the exhibitors. This society, by the improvement noticeable in the exhibits over that of last year, is doing a good work, and the good feeling easily discernible among the members augurs well for its future. The Newport visitors, in addition to some of them enjoying the bountiful hospitality of the society, had the pleasure of being taken in hand by Mr. J. P. Rooney, gardener for Mrs. Frederick Grinnell. Everything on the place showed the industry and painstaking of the gardener during his long years of work on this place. After a thorough inspection of the grounds and greenhouses, the visitors were entertained with refreshments at Mr. Rooney's home.

The park commissioners are endeavoring to have the appropriation for the care of the parks materially increased and placed in the control of the commission. At present responsibility for expenditures and the proper performance of the work is somewhat indefinitely fixed.

Mr. Alfred Emerich, representing Messrs. Vilmorin-Andrieux & Co., Paris, France, arrived in New York the early part of this week, and will make his usual business trip through the United States and Canada. His New York address will be, care H. Frank Darrow, 26 Barclay street.

LILLIUM HARRISII FROM THE Azore Islands

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Special Offer: 6x7, per 100, \$5.50; \$50.00 per 1000; case containing 350 at thousand rate.

Our latest Fall Wholesale Catalogue is now ready. Send us a list of your requirements in bulbs for Special Prices.

HENRY F. MICHELL CO., BULB IMPORTERS, 1018 Market St., PHILADELPHIA, PA.

CATALOGUES RECEIVED.

Champion City Greenhouses, Springfield, O. Fall trade list "for nurserymen and dealers only." Lists a general line of plants, tender and hardy.

John Lewis Childs, Floral Park, N. Y. Trade price-list of gladioli, lilies and other bulbs and roots. Illustrated.

Hoopes Brother and Thomas, West Chester, Pa. Semi-annual trade list of fruit and ornamental trees and shrubs.

Arthur T. Boddington, New York City. Catalogue of bulbs and seeds. A profusely illustrated and most attractive production. The cover is unique and artistically appropriate—the work of an artist.

P. J. Berckmans Co., Augusta, Ga. A handsome catalogue of good things. Rose Frau Karl Drushki occupies the position of honor on the first cover page and the beautiful *Althaea Meehanii* fills the back cover page. This catalogue marks the semi-centennial of this esteemed firm.

H. F. Michell Co, Philadelphia. Retail and wholesale bulb catalogue for 1906. The first has a fine embossed cover showing Emperor narcissus in colors as frontispiece; the latter is full of good offers of indispensable bulbs and seeds that every florist should know about.

Bridgeman's Bulbs and Seeds for 1906, New York City. Although the name does not appear on the catalogue, we know this to be the initial publication of the young firm of Rickards Bros. that has recently come into control of this long-established concern, eighty-two years' old and about thirty years' young.

Bobbink & Atkins, Rutherford, N. J. Autumn catalogue of forcing bulbs, trees and shrubs for fall planting, etc. A practical list for the practical florist and planter.

Eastern Nurseries, Jamaica Plain, Mass. Wholesale trade list for fall, 1906. One of the few really wholesale nursery catalogues listing the choicer ornamental trees and shrubs in quantity.

F. Weinberg, Woodside, New York. Catalogue of import and export commercial cacti and other succulents. One of the most complete and correct lists of these specialties ever issued, profusely illustrated.

Schlegel & Fottler Co. Catalogue of Bulbs and Plants for Autumn, 1906. In contents and make up this is in the high class style characteristic of all the literature sent out by this house.

Shatemuc Nurseries, Barrytown, N. Y. Shrubs and herbaceous plants for the garden border. A well-gotten-up list.

Goossens & Hellemons, successors to C. Eschweiler, Oudenbosch, Holland. Wholesale list of hardy ornamental and forest trees, evergreens

and shrubs. August Rolker & Sons, New York City, are the American agents for this house.

FALL GRASS ON THE LAWN.

"E. M." in September 1st issue of HORTICULTURE, asks what readers have to say about ridding a large lawn of what is known as fall grass.

It is certainly a nuisance and a great detriment to any lawn whether large or small.

Here is a little story which may be interesting in this connection. A few years ago it was noticed on the large lawn of P. A. B. Widener that where the automobile lawn mower did the work, accompanied with its heavy roller, no fall grass grew, but wherever the hand mowers had to be used where the larger mower could not reach this lawn pest grew in abundance.

This information is given for what it may be worth. Certain it is that on small lawns it is out of the question to use an automobile lawn mower, but would it not pay to use a heavy roller freely? It is the heavy roller compacting the soil which, I believe, acts as a preventive in some way. Fall grass does not grow to any extent in the shade and it is always more plentiful in a wet season. Mowing twice a week, I think, keeps it somewhat in subjection and stops it from seeding to some extent, but, when we want to be sure of getting rid of it, Mr. Hatfield's method of pulling it up by hand is the only practical remedy.

EDWIN LONSDALE.

Sept. 4, 1906.

James J. Curran, formerly with the P. S. Cut Flower Co., and later with the Brant & Noe Co., has taken the establishment of J. Shartzler, Salem, Va., and will conduct the business on his own account on and after October 1. The place comprises 40,000 square feet of glass in good condition, four acres of land, dwelling, etc. Soil and water are all right and smokeless coal yards are close alongside. Mr. Curran's son-in-law has taken a position with him as rose grower.

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THE FLORIST SUPPLY HOUSE OF AMERICA.

A VISIT TO WHITE MARSH, MD.

On the 19th inst. a party of about twenty of the members of the Washington Florists Club, at the invitation of Messrs. R. Vincent & Sons, made a visit to their establishment at White Marsh, about 16 miles outside of Baltimore. The occasion was the dahlia show, which has become an annual feature at this establishment. We had the pleasure of finding among the guests horticulturists from Baltimore, Philadelphia, New York, Boston and many other places throughout the country, and I can say that no one present could have left without feeling that they had been highly repaid by the magnificent exhibition.

Upon arrival we were ushered into the large packing shed about 250 by 50 feet in dimensions. And here let me say that no more magnificent spectacle in the way of floral exhibition or display have I ever witnessed. On each side of the building we had a continuous bank of dahlias, arranged in wet moss in small boxes about two by three feet, the front of the boxes hidden by foliage, a backing of greens forming a background. Two hundred and sixty-five varieties of dahlias were thus exhibited, each arranged in a huge bank by itself, thus showing to best advantage all the separate varieties. Down the center of the room there was a long table about eight feet wide, which was also banked with the flowers, leaving on either side a space of about two feet, where a cloth was laid and luncheon served to the guests.

After luncheon had been served Mr. Vincent, in a brief speech, extended to his guests a cordial welcome, which was responded to by Mr. Peter Bisset, president of the Washington Florists' Club. Short speeches were also made by Patrick O'Mara, Edwin Lonsdale, Wm. F. Gude, J. J. Perry and Chas. A. Seybold, also by H. J. Patterson of the Maryland Experimental Station and T. B. Symons of the Maryland State Horticultural Society. After this all the guests dispersed from the building and went out in all directions to view the dahlias growing in the fields. After spending an hour or so at this, they returned to the buildings and were refreshed with ice cream and cake.

Mr. Vincent has a farm here of 400 acres, in the centre a magnificent garden. His residence is surrounded by beautiful trees and shrubbery, and lying about the place in angles and

out about one-quarter of a mile are the homes of his three sons and daughters. Here together they all toil in this business, which is large enough for them to support many other families living on the farm. It is an education to any man in any business who will visit this place and ponder over the work which has been and is being done. Emerson said, "A man may get in the center of a forest and build a mouse trap, and if he does it well enough the people will find their way through the forest to come to him for it." This is literally the case here, for when Mr. Vincent started it was in the center of a forest. Such a man as this is a public benefactor and in my opinion is worthy of a monument, which in this case will not be erected after he is dead, but is built already and stands a living testimony to his industry and courage.

Z. D. BLACKSTONE.

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	CHICAGO September 18	ST. LOUIS September 18	PHILA. September 24	BOSTON September 27
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" Extra.....	12.00 to 15.00	10.00 to 12.50	15.00 to 15.00	8.00 to 12.00
" No. 1.....	8.00 to 10.00	6.00 to 8.00	8.00 to 10.00	4.00 to 6.00
" Lower grades.....	2.00 to 5.00	3.00 to 5.00	3.00 to 5.00	1.00 to 2.00
Bride & "Maid—Fan. & Sp.....	5.00 to 6.00	3.00 to 4.00	4.00 to 6.00	3.00 to 6.00
" Ordinary.....	2.00 to 4.00	..... to 2.00	1.00 to 2.00	.50 to 2.00
Golden Gate, Fancy.....	5.00 to 6.00	3.00 to 4.00	4.00 to 6.00	3.00 to 4.00
" Ordinary.....	2.00 to 4.00	..... to 2.00	1.00 to 2.00	.50 to 1.00
Liberty, Fancy.....	5.00 to 6.00	3.00 to 5.00	4.00 to 6.00	3.00 to 6.00
" Ordinary.....	2.00 to 4.00 to 2.00	1.00 to 3.00	.50 to 2.00
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" Ordinary.....	2.00 to 4.00 to 2.00	1.00 to 3.00	.50 to 2.00
Kaiserin, Carrot, Chatenay, Fancy.....	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	3.00 to 6.00
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Fancy.....	1.50 to 2.00	1.00 to 1.50	1.50 to 2.00	1.00 to 1.50
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Chrysanthemums..... to to to to
Cattleyas.....	50.00 to 75.00 to	60.00 to	50.00 to 75.00
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Lily of the Valley.....	3.00 to 4.00 to 3.00	2.00 to 4.00	3.00 to 5.00
Dahlias..... to to	1.00 to 2.00	1.00 to 2.00
Tuberose.....	..... to .....	..... to	3.00 to .....	..... to .50
Mignonette.....	1.00 to 2.00	..... to .....	..... to	1.00 to 2.00
Adiantum Cuneatum.....	.75 to 1.00	00 to 1.25	1.00 to .....	.50 to 1.00
" Croweanum.....	1.00 to .....	..... to	1.50 to	1.00 to 1.50
Smilax.....	10.00 to 12.00	..... to 12.50	15.00 to	12.00 to 16.00
Asparagus Plumosus, strings.....	25.00 to 30.00	25.00 to 40.00	35.00 to 50.00 to 50.00
" " & Sprenger bunches	25.00 to 30.00	25.00 to 50.00	35.00 to 50.00	20.00 to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON The market shows a much better tone. Asters, which have been overrunning everything else for a month past have been injured by the inclement weather and a chance is thus left open for other things. American Beauty roses are selling satisfactorily. Teas are improving in quality. Lily of the valley has moved up a peg in value this week.

BUFFALO Genuine summer weather still was the previous week and trade very quiet. Roses of short quality were overflowing and values were small; plenty of other stock to be seen. Gladioli and asters have not been so plentiful and moved fairly well; an over supply of greens at present.

COLUMBUS Trade is improving very fast; in fact, some days the past week, especially last Saturday, were very busy. Stock has also improved a great deal. Asters are all but gone, and no one is sorry, as they have on the average not been of very good quality this year. The first chrysanthemums were on sale here last Saturday—some especially good blooms of Monrovia, which is certainly a grand commercial yellow for first early sales and, if well grown, leaves little to be desired in its class. Many outdoor flowers have been used in floral work, but from now on roses and carnations will constitute the bulk of the material used; this will help the total volume of sales very much, as customers will always pay more for greenhouse stock.

LOUISVILLE Business conditions last week were very good, as was the supply of stock. Carnations are good in quality and fair in supply. The demand is up to expectations. Roses are very good in quality and demand, and the supply is very good. Good asters are scarce, and there is little call for them. Lilies and all other stock can be had in good quantities with a satisfactory demand.

NEW YORK The cool weather has checked production materially and relieved the market of much of the daily burden which had been imposed upon it in the way of ill-timed material for which no sale could be found. American Beauty roses are very plentiful this week, many of them being of excellent quality for the season. As yet, however, the smaller roses such as Bridesmaid, Liberty, Golden Gate and Chatenay show but slight improvement

in quality being diminutive in flower, weak in stem, dull in color and rich in mildew. Asters are gradually shrinking and chrysanthemums begin to take possession of the field. Lily of the valley and cattleyas hold the lead in choice material.

PHILADELPHIA NOTES.

Peter Samuel Dooner, the best-known hotel man in Philadelphia to the horticultural trade, died on the 23rd inst. This announcement will carry a weight of sorrow to many of our readers. He amassed a fortune, yet left behind him a fragrant memory of squareness. Very few fortunes can have that seal attached. Latterly his house came to be called "the seedmen's club," as so many of the craft came to make it their temporary headquarters. But that had its inception twenty years ago. No humorist ever got the better of Peter Dooner in a repartee. If one tried irony or satire, he was there; if one felt like being liberal, no one could beat Peter in generosity. We have all lost a good friend. The business will be continued by his three sons, Edward, Frank and William.

The Leo Niessen Co. have been appointed sole agents for Philadelphia and vicinity for Beavem's fadeless sheet moss. This material is a remarkable improvement as to its bright green color and long keeping quality, and is also very economical, being thin cut enough to avoid waste both in freight and covering surface.

The Pennock Meehan Co. commence operations Oct. 1, as already announced. All signs point to a very successful outcome for the new firm—more growers, more customers, better service, improvement all along the line. They aim to set the pace and make everybody hustle not only in Philadelphia, but all over the country. The potentiality is there and nothing can stop them. Bon voyage!

George C. Watson is busy sending out his new season's samples from the European growers of fancy grasses. Messrs. Barenbrug, Burgess & Co. are well equipped this year to cater to the varying needs of the public in North America. The Zurich test as to germination and purity has been made the basis for quotations, and all standard requirements have been strictly complied with. Trade ethics in the way of competition in lower grades have not been lost sight of, however, and every seed house with a keen eye both to quality and price should get in touch with these progressive people. Mr. Watson is sole agent for the United States and Canada and will be glad to respond to any legitimate enquiry for samples and prices.

A meeting of the stockholders of the Philadelphia Wholesale Flower Market was held on the 25th inst. for the purpose of winding up the concern. Chas. E. Meehan the majority stockholder, was the chief figure in the proceedings which ended satisfactorily to all concerned.

PERSONAL.

Philip F. Kessler was a passenger on S. S. Barbarossa, reaching New York on the 19th.

T. Mellstrom, representing Sander & Sons of St. Albans, England, sailed from Liverpool on September 22d in S. S. Umbria for New York.

John Cotting of Rhinebeck, N. Y., and Rose Schantz were married on September 6 and after an extended western trip will make their home in Rhinebeck.

Louis E. Herzberg, foreman for J. B. Heiss, Dayton, Ohio, and Ida Gerlich, daughter of F. A. Gerlich of Mitchell park, were married on September 17th.

B. J. Connolly of Taunton, Mass., has brought suit against that city for injuries to his knee caused by stepping on a defective plank covering a culvert on Highland street.



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GARDENIAS, DAISIES, ROSES AND CARNATIONS
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Wholesale Commission Florist
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of all varieties
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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Sep. 22 1906	First Half of Week beginning Sep. 24 1906		Last Half of Week ending Sep. 22 1906	First Half of Week beginning Sep. 24 1906
Roses			Carnations, Ordinary	.50 to .75	.50 to 1.00
Am. Beauty, fan and sp.	15.00 to 20.00	15.00 to 25.00	Chrysanthemums	..... to .....	..... to
" extra	8.00 to 12.00	8.00 to 12.00	Cattleyas	50.00 to 75.00	50.00 to 75.00
" No. 1	4.00 to 6.00	4.00 to 6.00	Lilies	4.00 to 6.00	4.00 to 8.00
" Lower grades	1.00 to 2.00	1.00 to 3.00	Gladoli	.50 to 1.00	.50 to 1.00
Bride & 'Maid, fan and sp.	2.00 to 4.00	3.00 to 5.00	Asters	.15 to 1.00	.25 to 1.00
" Ordinary	.25 to 1.00	.25 to 2.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
Golden Gate, fancy	2.00 to 4.00	3.00 to 5.00	Lahlias	..... to .....	..... to
" ordinary	.25 to 1.00	.25 to 2.00	Tuberose	..... to .....	..... to
Liberty, fancy	3.00 to 6.00	3.00 to 5.00	Rignonette	..... to .50	..... to .50
" ordinary	.25 to 2.00	.25 to 2.00	Adiantum Cuneatum	.25 to .50	.25 to .50
Richmond, fancy	3.00 to 6.00	3.00 to 6.00	" Crowcaoum	1.00 to 1.50	1.00 to 1.50
" ordinary	.25 to 2.00	.25 to 2.00	Smilax	6.00 to 10.00	6.00 to 10.00
Kaiserin, Carnot, Chateau, fancy	2.00 to 4.00	3.00 to 5.00	Asparagus Plumosus	10.00 to 25.00	10.00 to 25.00
" ordinary	.25 to 1.00	.25 to 2.00	" & Spreegeri, buoches	15.00 to 35.00	15.00 to 35.00
Carnations, Fancy	1.00 to 1.50	1.00 to 2.00			

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WM. STUART ALLEN CO.
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Edward C. Horan
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Wholesale Florist
Consignments received, sold well and returns made promptly.
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Telephone, 280 Madison Sq.

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**EXTRA FINE
NEW CROP**

FANCY FERNS

\$1.00 per 1000

GALAX \$1.25 per 1000

Discount on Larger Orders

Let us have your standing order for Fern. Will make price right all through season.

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Formerly Miami Avenue

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WM. DILGER
Manager

Send for Our Weekly Price List on Cut Flowers.

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WHOLESALE FLORIST**

Finest American Beauties and Carnations

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Wholesale Florist**

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ROSES, CARNATIONS
And all kinds of Seasonable Flowers

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Wholesale Commission Florist, also Dealer In Florists' Supplies and Wire Designs.

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BUFFALO, N. Y.

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J. B. Murdoch & Co.

Wholesale Florists

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Long Distance Phone 1435 Court.

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AND CASH RETURNS

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Telephone 2921 Madison Square.

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122 West 25th St., New York

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We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties

and are dealers in

Glassware Decorative Greens and Florists' Requisites.

H. BAYERSDORFER & CO

50-56 North 4th Street
PHILADELPHIA, PA.

FLORISTS' SUPPLIES

BEST LINE IN THE COUNTRY

Do not keep your "I" on firms to see them grow or to see if they are full grown, but just glance around at the enterprising florist supply house with everything new for the trade. See us at the convention.

J. STERN & CO., 1928 Cermantown Av., PHILADELPHIA, PA.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

SOUTHERN SMILAX

Now ready in limited quantities for immediate use. Everything WORTH WHILE in Southern Greens.

E. A. BEAVEN, Evergreen, Ala.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

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Fresh Northern, \$1.00 per 1000.

LYRATA, the best substitute for Smilax, \$7.00 per case
Headquarters for all **FLORISTS' SUPPLIES.** Wire Designs, Cut Wire, Letters, Immortelles, Cycas Leaves, Wheat Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass. L. D. Telephone, Main 2618



WHOLESALE FLOWER MARKETS. — PER 100. — TO DEALERS ONLY.

	CINCINNATI September	DETROIT September 18	BUFFALO September 24	PITTSBURG September 24
ROSES				
Am. Beauty, fan and sp.	20.00 to 25.00	20.00 to 30.00	20.00 to 25.00	20.00 to 25.00
" extra	15.00 to 20.00	15.00 to 20.00	12.00 to 20.00	12.50 to 15.00
" No. 1	8.00 to 10.00	6.00 to 8.00	6.00 to 12.00	6.00 to 1.00
" Lower grades	4.00 to 6.00	3.00 to 6.00	3.00 to 6.00	3.00 to 4.00
Bride & Maid—Fan, and Sp.	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	5.00 to 6.00
" Ordinary	2.00 to 4.00	2.00 to 4.00	4.00 to 5.00	3.00 to 4.00
Golden Gate, Fancy	5.00 to 6.00	4.00 to 6.00	5.00 to 6.00	5.00 to 6.00
" Ordinary	2.00 to 4.00	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Liberty, fancy	5.00 to 6.00	4.00 to 6.00	5.00 to 7.00	5.00 to 6.00
" Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Richmond, Fancy	5.00 to 6.00	4.00 to 6.00	6.00 to 7.00	6.00 to 7.00
" Ordinary	3.00 to 4.00	4.00 to 4.00	3.00 to 6.00	3.00 to 4.00
Kaiserin, Carnot, Chateauf, Fancy	5.00 to 6.00	4.00 to 6.00	6.00 to 7.00	8.00 to 10.00
" Ordinary	3.00 to 4.00	2.00 to 4.00	3.00 to 6.00	3.00 to 4.00
CARNATIONS				
Fancy	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00
Ordinary	.75 to 1.00	.50 to .75	.50 to 1.00	.75 to 1.00
MISCELLANEOUS				
Chrysanthemums	..... to .....	..... to .....	..... to	5.00 to 6.00
Cattleyas	..... to .....	..... to .....	..... to .....	..... to
Lilies	5.00 to 10.00	10.00 to 15.00	3.00 to 15.00	15.00 to 18.00
Gladioli	2.00 to 3.00	.75 to 2.00	1.50 to 2.00	3.00 to 4.00
Asters	1.00 to 2.00	.50 to 2.00	1.00 to 2.00	.50 to 2.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Dahlias	..... to .....	..... to .....	..... to .....	.75 to 1.00
Tuberose	..... to .....	..... to .....	..... to	3.00 to 4.00
Mignonette	..... to .....	..... to	1.00 to 1.50	..... to
Adiantum Cuneatum	..... to 1.00	..... to 1.00	.50 to 1.00	.75 to 1.00
" Croweanum	..... to .....	..... to	1.00 to 1.50	1.25 to 1.50
Smilax	10.00 to 12.00	..... to 12.50	12.00 to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	25.00 to 35.00	25.00 to 35.00	30.00 to 50.00
" " & Sprenger, bunches	..... to 35.00	25.00 to 35.00	25.00 to 35.00	40.00 to 50.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

The KERVAN CO. 20 WEST 27th ST., N. Y.

WHOLESALE DEALERS

Fresh cut Palmetto & Cycas Palm Leaves, Galax, Fern, Cactus, Ferns and Mosses. All Decorating Evergreen.

List of Advertisers

Table listing advertisers and their page numbers. Includes entries like Allen J. K., American Nursery, Barr J., etc.

Buyer's Directory and Ready Reference Guide READ IT

Advertisements under this head, one cent a word. Initials count as words. Regular advertisers in this issue are also listed under this classification without charge.

ADIANTUMS.

Henry A. Dreer, Philadelphia. For page see List of Advertisers. Adiantum hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston. For page see List of Advertisers.

ALOCASIA SANDERIANA.

Joseph A. Manda, 191 Valley Road, W. Orange, N. J. For page see List of Advertisers.

ANNOUNCEMENT.

Hjalmar Hartman & Co., 31 Barclay St., New York. For page see List of Advertisers.

ARAUCARIAS.

Godfrey Aschmann, 1012 Ontario St., Philadelphia. For page see List of Advertisers.

ASPARAGUS.

A. M. Herr, Lancaster, Pa. For page see List of Advertisers. Asparagus Sprengeri, large, field grown clumps, \$8.00 100, H. W. Vose, Hyde Park, Mass.

Asparagus plumosus nanus and Sprengeri, 2 1/2-in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus and Sprengeri, fine 2-in. stock, \$2.00 100; \$18.00 1000. Cash. Lewis Ulrich, Tiffin, Ohio.

Asparagus Plinmosa, 2 in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Elliott St., Buffalo, N. Y.

AUSTRIAN AND SCOTCH PINES.

The F. E. Conine Nursery Co., Stratford, Conn.

BAMBOO STAKES.

Yokohama Nurseries, 31 Barclay St., N. Y. For page see List of Advertisers.

BAY TREES.

Julius Roehrs Co., Rutherford, N. J.

BEGONIAS.

Henry A. Dreer, Philadelphia. Begonia Gloire de Lorraine. For page see List of Advertisers. Begonias Gloire de Lorraine and Turnford Hall, propagated from leaf cuttings, \$15.00 100; \$140.00 1000; 4-in., \$40.00 100. Cash. J. A. Peterson, Westwood, Cincinnati, O.

BOUVARDIAS.

Nanz & Neuner, Louisville, Ky. For page see List of Advertisers.

BOX TREES.

Julius Roehrs Co., Rutherford, N. J.

BULBS AND TUBERS.

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J. M. Thorburn & Co., 33 Barclay St., New York. Lily Bulbs. For page see List of Advertisers.

Yokohama Nurseries, 31 Barclay St., N. Y. Lily Bulbs. For page see List of Advertisers.

James Vick's Sons, Rochester, N. Y. For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., N. Y. For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y. Fall Forcing Bulbs.

CARNATIONS.

E. H. Pye, Upper Nyack, N. Y. For page see List of Advertisers. Chicago Carnation Co., Joliet, Ill. Field Grown Plants. For page see List of Advertisers.

Guttman & Weber, New York. Carnation Victory. For page see List of Advertisers.

The H. Weber & Sons Co., Oakland, Md. Carnation Mabelle. For page see List of Advertisers.

R. Engelman & Son, Pittsfield, Mass. Field Grown Carnations. M. J. Schaaf, Dansville, N. Y. Field Grown. For page see List of Advertisers.

CEMENT BENCHES.

W. F. Kasting, Buffalo, N. Y. For page see List of Advertisers.

CELESTIAL PEPPERS.

Geo. A. Kuhl, Pekin, Ill.

CONIFERS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng. For page see List of Advertisers.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass. For page see List of Advertisers.

CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis. Weich Bros., 15 Province St., Boston. For page see List of Advertisers. Edwards Folding Box Co., Philadelphia. For page see List of Advertisers.

CYCAS STEMS.

J. M. Thorburn & Co., 33 Barclay St., N. Y. For page see List of Advertisers.

CYCLAMEN SEEDS.

R. & J. Farquhar & Co., 6 & 7 So. Market St., Boston. For page see List of Advertisers. O. V. Zangen, Hoboken, N. J. Giant Cyclamen Seeds. For page see List of Advertisers.

DAHLIAS.

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DECORATIVE BOXWOODS.

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DECORATIVE PLANTS.

A. Leuthy & Co., Roslindale, Mass. For page see List of Advertisers. Julius Roehrs, Rutherford, N. J. For page see List of Advertisers. John Scott, Flatbush, Brooklyn, N. Y. For page see List of Advertisers.

DRACAENAS.

Henry A. Dreer, Philadelphia. For page see List of Advertisers. Schrecht & Son, 425 Fifth Av., New York. Dracaena terminalis from bench, fine 5.00 100. Carl Hagenburger, West Mentor, Ohio.

Is Your Name In The Above List? If Not, Why Not?

FERNS.

- A. Leuthy & Co., Roslindale, Mass.
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- H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitman.
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- S. S. Skidelsky, 824 N. 24th St., Phila.
Whitmanii Fern.
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- H. N. Eaton, So. Sudbury, Mass.
Boston Ferns.
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- John Scott, Flatbush, Brooklyn, N. Y.
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- Henry A. Dreer, Philadelphia.
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FLORAL PHOTOGRAPHS.

- Floral Photographs. Foley's 226-228 12 Bowery, New York.

FLORISTS' FERTILIZER.

- A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address The Barwell Agricultural Works, Waukegan, Ills. Established at Leicester, England in 1800.

FLORISTS' LETTERS.

- Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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- G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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Decorative Evergreens.
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GERANIUMS.

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GLASS.

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- G. C. Watson, Dobson Bldg., 9th & Market St., Philadelphia.

GLAZING POINT.

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GREENHOUSE BUILDING MATERIAL.

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- A. T. Stearns Lumber Co., Neponset, Boston.
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- Klog Construction Co., N. Tonawanda, N. Y.
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- J. C. Moninger Co., 117 East Blackhawk St., Chicago, Ill.
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- Foley Mfg. Co., 471 W. 22nd St., Chicago.
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HARDY FERNS AND SUPPLIES.

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- Michigan Cut Flower Co., 38 and 40 Miami Ave., Detroit, Mich., Wm. Dilger, Mgr. Fancy Ferns.
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- E. A. Beaven, Evergreen, Ala.
Fadeless Sheet Moss: Lyrata.
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- L. B. Brague, Hinsdale, Mass.
Hardy Cut Ferns, Christmas Trees, Baled Spruce.
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HARDY PERENNIALS.

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- Bay State Nurseries, 600 Adams St., N. Abington, Mass.
Hardy Herbaceous Perennials.
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HEATING APPARATUS.

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HIBISCUS SYRIACUS MEEHANII.

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HOT-BED SASH.

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INSECTICIDES.

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JAPANESE PLANTS.

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- J. Breitmeyer's Sons, Detroit, Mich.
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- George H. Cooke, Washington, D. C.
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- Samuel Murray, 1017 Broadway, Kansas City, Mo.
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- Gude Bros. Co., 1214 F St., Washington, D. C.
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- Eyres, 11 N. Pearl St., Albany, N. Y.
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- Young & Nugent, 42 W. 28 St., New York.
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- Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

LILIUM HARRISII.

- F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
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MASTICA.

- F. O. Pierce Co., 170 Fulton St., New York.
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- Joseph Breck & Sons, 47-54 N. Market St., Boston.
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MOREHEAD RETURN TRAP.

- Morehead Mfg. Co., Detroit, Mich.
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MUSHROOM SPAWN.

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NARCISSI.

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NURSERY STOCK.

- John Waterer & Sons, Ltd., American Nursery, Bagshot, England.
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ORCHID PLANTS.

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- Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Nanz & Neuner, Louisville, Ky.
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PANSY SEED.

- Johnson Seed Company, Philadelphia, Pa.
H. F. Mitchell Co., 1018 Market St., Phila.
Pansy and Cyclamen Seed.
For page see List of Advertisers.
Augustus Ziegenfied, North Am. Mass.
Giant Pansy Seed.

PATENTS.

- Siggers & Siggers, Washington, D. C.
Patents, Trade Marks, and Copyrights.
25 years' active practice.
For page see List of Advertisers.

PEONIES.

- Gilbert H. Wild, Sarcoxie, Mo.
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Warnaar & Co., Sassenheim, Holland.
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Edward Swayne, West Chester, Pa.
For page see List of Advertisers.
George Hollis, So. Weymouth, Mass.
For page see List of Advertisers.
Fine collection of Best Peonies. Complete Peony and Phlox Mannas, 25 cents each. C. S. Harrison's Select Nursery, York, Nebr.

POINSETTIAS.

- S. N. Pentecost, Cleveland, O.
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POT HANGERS.

- Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. J. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

- Baudisch & Co., Union Hill, N. J.
For page see List of Advertisers.
Primula Obs. Grandiflora, 4 in. pots. \$6 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

PUTTY.

- Benj. Hammond, Fishkill on Hudson, N. Y.
Twenlow's Old English Glazing Putty.
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RHODODENDRONS.

- John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES.

- M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pye, Upper Nyack, N. Y.
For page see List of Advertisers.
Henry A. Dreyer, Philadelphia.
Baby Rambler.
For page see List of Advertisers.
American Beauties, 2 in., \$55.00; 3 in., \$80.00; 1000, Cash. J. Henry Bartram, Lansdowne, Pa.
Roses, Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1/2 in. pot plants, \$7.00 per 100, \$65.00 per 1000, Brown Bros. Co., Rochester, N. Y.

SEEDS.

- T. J. Grey & Co., 32 So. Market St. Boston, Mass.
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Joseph Breck & Sons, 51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co., 33 Barclay St., New York.
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H. F. Mitchell Co., 1018 Market St., Philadelphia, Pa.
For page see List of Advertisers.
R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
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A. T. Boddington, 342 W. 14th St., N. Y.
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James Vick's Sons, Rochester, N. Y.
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SEEDS—Continued.

- W. W. Rawson & Co., 5 Union St., Boston.
Vegetable Seeds for Forcing.
For page see List of Advertisers.
Conrad Appel, Darmstadt, Germany, established 1789. High Grade Grass, Clover, and Tree Seeds.

SHEET MOSS.

- E. A. Beaven, Evergreen, Ala.
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SIEVES AND SCREENS.

- Hub Wire Works, 13 Devonshire St., Boston.
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SMILAX.

- J. C. Schmidt Co., Bristol, Pa.
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E. A. Beaven, Evergreen, Ala.
Southern Smilax.
For page see List of Advertisers.

SMILAX PLANTS.

- R. Kilbourn, Clinton, N. Y.

SPHAGNUM MOSS.

- Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIRAEA.

- Warnaar & Co., Sassenheim, Holland.
For page see List of Advertisers.

STEAM TRAP.

- E. Bippard, Youngstown, O.
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STRAW MATS.

- Wm. Elliott & Sons, 201 Fulton St., New York.
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VEGETABLE PLANTS.

- Plainfield Nursery, Plainfield, Ind.
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VENTILATING APPARATUS.

- Lord & Burnham Co., 1133 Broadway, New York.
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PATERSON U-Bar Co., 1 Madison Sq., N. Y.

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Hitchings & Co., 1170 Broadway, N. Y.

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John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.

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Weathered Co., 46 and 48 Marlon St., N. Y.

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Foley Mfg. Co., 471 W. 22nd St., Chicago.

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The Chicago Lifter.

- J. C. Moulinger Co., 421 Hawthorne Ave., Chicago.

VIOLETS.

- H. R. Carlton, Wiloughby, O.
Violet, Gov. Herrick.
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J. C. Schmidt Co., Bristol, Pa.
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Charles H. Green, Spencer, Mass.
Princess of Wales.
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R. Engelman & Son, Pittsfield, Mass.
Princess Violets, strong, 2 in., 2 1/2 in. plants, 500 per 1000, cash. George W. Bullock, Cohasset, Mass.

WIREWORK.

- Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.
Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.

Boston.

- N. F. McCarthy & Co., 84 Hawley St., Boston.
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George A. Sutherland Co., 34 Hawley St., Boston.
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Welch Bros., 15 Province St., Boston.
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Buffalo.

- Wm. F. Kasting, 383-87 Ellicott St., Buffalo, N. Y.
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WHOLESALE FLORISTS—Continued.
Chicago.

- J. A. Budlong, 37 Randolph St., Chicago.
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Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reluberg, 51 Wabash Av., Chicago.
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Detroit.

- Michigan Cut Flower Exchange, 38 & 40 Miami Av., Wm. Diger, mgr.
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New York.

- J. K. Allen, 106 W. 28th St., New York.
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Wm. Stuart Allen Co., 53 W. 28th St., New York.
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J. S. Fenrich, 110 W. 28th St., New York.
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Ford Bros., 48 West 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 West 28th St.
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E. C. Horan, 55 West 28th St., New York.
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Phillip F. Kessler, 53 W. 26th St., New York.
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Julius Laug, 53 West 30th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
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Chas. Millang, 50 West 28th St., New York.
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Frank Millang, 55-57 W. 26th St., New York.
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A. Moltz, 55-57 W. 26th St., New York.
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John I. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Traendly & Schenck, 44 W. 28th St., New York.
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Hicks & Crawbuck, Inc., 76 and 78 Court St., Brooklyn, N. Y.
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John Young, 51 W. 28th St., New York.
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Philadelphia.

- W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
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S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
Edward Reid, 1526 Ranstead St., Philadelphia, Pa.
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Pittsburg.

- J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
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New Offers in This Issue.

ANNOUNCEMENT TO THE FLORISTS OF THE UNIVERSE.

- The S. S. Pennock-Meehan Co., 1608-18 Ludlow St., Phila.
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COMET TOMATO.

- Wm. Sim, Cliftondale, Mass.
For page see List of Advertisers.

CYCLAMENS.

- John Barr, South Natick, Mass.
For page see List of Advertisers.

Tobacco Paper "NICO-FUME" **LIQUID**
 IS THE **STRONGEST, BEST PACKED, EASIEST APPLIED.**
Furnishes the Most Nicotine for the Money!
 ... Manufactured by ...
THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

LIQUID OVER 40 NICOTINE
 By far the **CHEAPEST.**
JUST NOTE PRICES!
 Pint.....\$ 1.50
 1/2 Gallon..... 5.50
 Gallon..... 10.50
 5 Gallons..... 47.25

24 sheets.....	\$ 0.75
144 sheets.....	3.50
288 sheets.....	6.50
1728 sheets.....	35.10

New Offers in this Issue—Continued.

FERNS, GREENHOUSE PLANTS, CANNA ROOTS, PERENNIALS, ETC.

Ludvig Mosback, Omgara, Ill.
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FIELD GROWN CARNATIONS.

E. R. Sherwood, Norwalk, Conn.
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GRASS SEEDS.

G. C. Watson, Dobson Bldg., Phila.
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HELICONIAS.

Julius Roehrs Co., Rutherford, N. J.
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JAPAN LONGIFLORUMS, CANDIDUM, NARCISSI, FRENCH BULBS.

The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
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LILIUM HARRISII FROM THE AZORES.

H. F. Michell Co., Philadelphia.
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NICO-FUME.

Ky. Tobacco Product Co., Louisville, Ky.
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ORCHIDS FOR SPRING DELIVERY.

A. Held, 11-19 William St., New York.
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RETAIL FLORIST.

Theodore Muller, 4832 Delmar Blvd., St. Louis, Mo.
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SHEEP MANURE.

Pulverized Manure Co., 31 Union Stock Yards, Chicago.
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STENATHIUM ROBUSTUM.

H. P. Kelsey, Salem, Mass.
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LIST OF PATENTS.

Issued September 4, 1906.

829,942. Grass-Collecting Receptacle for Lawn-Mowers. William Boss, St. Anthony Park, Minn.

830,126. Land Roller. Edward S. Wilder, Monroe, Mich.

830,163. Weed Cutter. William R. McKeen, Jr., Omaha, Neb.

830,298. Land Roller. George J. Carpenter, Bronson, Mich.

Issued September 19.

831,181. Lawn-Rake. Adolph H. Ohman, Saginaw, Mich.

831,183. Sharpening Device for Lawn Mowers and other Articles. George H. Paulus, Detroit, Mich.

GREENHOUSE GLASS—THE IMPORTANT DUTY AS IT AFFECTS FLORISTS.

At the Florists' Convention, held at Dayton, Ohio, President Kasting's address brought out matters which led to a discussion on the high cost of greenhouse glass, and that the tariff thereon had a marked effect in keeping up the very high cost. How many millions of square feet of glass there are used by the florists of the United States, I am unable to say, but all men who have greenhouses or cold frame plants, are greatly interested in the cost of this important commodity.

At the discussion which ensued at the time, it was stated that if there was to be anything done in the modification of the present tax on glass, some action must be taken, otherwise nothing would ever be accomplished. The matter, after debate, was referred to a committee, of which the writer is a member, and to give a correct status of the present rate on glass, application was made to the Commissioner of Commerce and Labor.

Prior to the Spanish war (so called), the rate on glass used by the greenhouse men was as follows:

On all sizes not exceeding 10x15 in. sq., the import duty was 1c. per pound; on sizes above 10x15 in. sq., and not exceeding 16x24 in. sq., 1 1/4c. per pound; above 16x24 in. sq., and not exceeding 24x30 in. sq., 1 3/4c. per pound. It will be noted that the tariff is not placed upon the square foot, nor is it an ad valorem rate, the valuation being placed at the net rate weight of glass in boxes, which is 50 feet, or as near as may be, and glass will approximate 50 to 80 pounds net in a box, according to thickness. Such was the rate in existence in 1896.

In 1897 the tariff was changed, and it is under this tariff that the glass now used in the United States is protected. The paragraph which governs that duty is as follows:

Glass not exceeding 10x15 in. sq., @ 1 3/8c. per pound, above that and not exceeding 16x24 in. sq., @ 1 7/8c. per pound, and not exceeding 24x30 in. sq., @ 2 3/8c. per pound.

Provided, that the duties shall be according to the actual weight of the glass. The reader will see at a glance the substantial increase in the cost of each box of glass, which this protection gives over and above 1896 and previous. In 1896 the volume

imported of the cylinder, crown and common window glass was \$51,189,854.13, and for 1905 it was \$17,933,028.50.

The question before the greenhouse men of the country is, whether it is worth while to make an effort to procure less duty on glass, to bring before the proper authorities the sense that the time is ripe and should be carried into effect of modifying for the general good, the high rates of the present duties.

Of course this matter affects not only the greenhouse people, but every builder and sashmaker in the land. It was suggested at the Dayton Convention that the florists of the United States should make known their interest in the matter by direct statement. The committee to whom this matter was referred would be glad to hear of the public expression, looking forward to a proper presentation of the matter in such shape that it will command the attention of the proper Congressional committees.

BENJAMIN HAMMOND,
 Fishkill-on-Hudson, N. Y.
 Sept. 11, 1906.

GREENHOUSES BUILDING AND PROJECTED.

Additions.

Glendale, R. I.—Amos Darling, addition.

N. Adams, Mass.—A. J. Boothman, addition.

Danversport, Mass.—Messrs. Potter, additions.

Franklin Falls, N. H.—Kelley Bros., one house, 22x70.

E. Norwalk, Conn.—Robert E. Morehouse, one house.

Des Moines, Ia.—Iowa Seed Co., two houses completed, five more building.

Washington, D. C.—J. R. Freeman, carnation houses; A. B. Garden, three houses.

Clinton, Me.—C. P. Loder, one house.

Norwell, Mass.—Charles E. Berry, one house.

INCORPORATED.

Rochester Implement Co., Rochester, N. Y.; to manufacture agricultural implements, etc.; capital, \$7,000; incorporators, W. H. Rowerdink, C. L. Ard, W. P. Frisch.

The Lord & Burnham Co. were the lowest bidders on the contract for erecting a propagating house in Humboldt park, Buffalo, N. Y. Their price was \$8,215. The dimensions called for are 80 feet long, with two 10-foot wings.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

SITUATION WANTED.

Young married man wishes position as gardener on private estate. Up to date in all branches. Well recommended. Address Bee, care HORTICULTURE, 11 Hamilton Place, Boston.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—We can with great confidence recommend to any lady or gentleman requiring the services of a skilled all round gardener and orchid grower. He can furnish best of references. Carrillo & Baldwin, orchid growers and importers, Secaucus, N. J.

SITUATION WANTED—As private gardener on place where there is a range of greenhouses. Best of references. Over 7 years in last place. Expert rose grower. Married. Address J. J., care HORTICULTURE.

WANTED—A medium sized hot water heater and fittings. W. R. Boody, York Harbor, Me.

WANTED—Medium sized second hand hot water boiler. H. W. Vose, Hyde Park, Mass.

WANTED—No. 16 good second hand Hitchings hot water boiler. F. N. Davis & Son, Foxboro, Mass.



PATENTS

Trademarks and Copyrights

Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: Working on the Failures of Others.

SIGGERS & SIGGERS
PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

Holds Glass Firmly
See the Point #2
PEERLESS

Glazing Points are the best. No rights or jobs. Box of 1,000 points 75 cts. postpaid.

HENRY A. DREER,
714 Chestnut St., Phila., Pa.

THE HEART OF THE MATTER IS ALL HEART SUN DRIED CYPRESS

GREENHOUSE MATERIAL

IS THE VERY BEST—

FOLEY MFG. CO. 471 W. 22ND ST. CHICAGO,

HAVE IT, RIGHT FROM THE GULF OF MEXICO, AND WILL MAKE YOU RIGHT PRICES—

SEND FOR SKETCHES ESTIMATES AND CATALOGUE FREE—

HOT-BED SASH, VENTILATING APPARATUS, FITTINGS AND MANY OTHER THINGS—

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.

FOLEY MANUFACTURING CO.
471 W. 22d Street - - - CHICAGO

HUB WIRE WORKS

13 Devonshire Street
BOSTON, MASS.

SIEVES AND SCREENS
FOR
Loam, Gravel and Ashes, 25c. to \$5.50

Garden Arches and Trellises to Order

STANDARD PLATE GLASS CO.

Manufacturers, Importers and Jobbers

AMERICAN AND FRENCH GREENHOUSE GLASS

26-30 Sudbury Street
61-63 Portland Street

BOSTON, MASS.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2 in. pots in crate	\$4.88	120 7 in. pots 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. pots 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 " " " "	7.16	12 14 " " " "	4.80
		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. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

CYPRESS SASH BARS
32 feet or longer

HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Standard Flower . . POTTS

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

W. H. ERNEST,
28th and M Streets, WASHINGTON, D. C.

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE BY HAIL. For particulars address

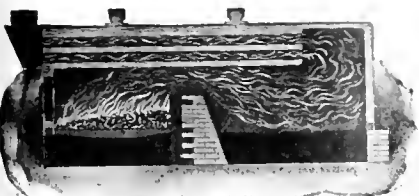
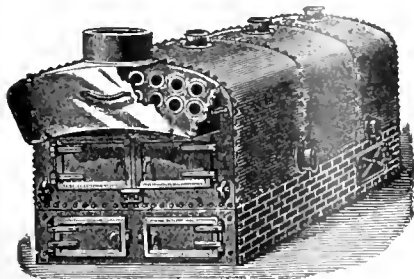
John G. Esler, Saddle River, N. J.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,

35 Erie Street. CHICAGO.



Boilers made of the best material; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information

DO YOU WANT

EVEN TEMPERATURE

In Your Greenhouse?

Use a MOREHEAD TRAP

MOREHEAD MFG. CO.

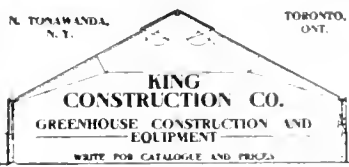
1045 Grand River Ave.

DETROIT

MICH

N. TUNAWANDA, N. Y.

TORONTO, ONT.



GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.

117 E. Blackhawk St., CHICAGO

SEND FOR CATALOGUE OF **SCOLLAY HOT WATER and STEAM BOILERS**

JOHN A. SCOLLAY

73 and 75 Myrtle Avenue

BOROUGH OF BROOKLYN, N. Y., CITY

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.



SOME MORE ABOUT THAT CATALOG

We believe plans and sections are important—important enough to give them considerable space. Under each of the dozen or more subjects in our catalog, there's always a plan—a plain as day plan that anybody can understand.

In the back are several pages of sections and different kinds of side wall construction that are a great help in selecting the kind of house you want. A few pages are given to just what we do and some of the things it's cheaper for you to do—a complete, satisfactory catalog—we say in all modesty that we believe it's the best greenhouse one that's ever been printed.

SEND FOR IT

PIERSON U-BAR COMPANY

Designers and Builders

U-BAR GREENHOUSES

Metropolitan Bldg., 4th Ave. and 23rd St.

NEW YORK

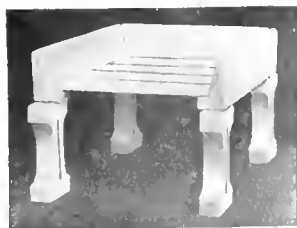
GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE 74 FRANKLIN ST. BOSTON

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL.

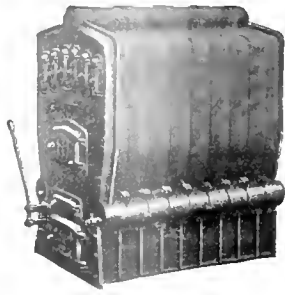
Indestructible Green House Bench

Built under the Pult Patent



The material used in construction consists of cement, gravel and wire reinforcements. A cement bench lasts a life time, is not affected by frost, and can be moved any time and anywhere. All work guaranteed. Can be within reach of every florist. Study carefully the advantages of our wood or other material used for greenhouse benches. Estimates gladly furnished upon application by giving the exact dimensions of the benches you might want to rebuild or purchase. Manufactured and sold by

WM. F. KASTING, 383-387 Ellicott Street
BUFFALO, N. Y.
Sole Owner of Patent



Not Only Boilers

but every sort of pipe and fittings for greenhouse heating requirements—there's no money in our selling fittings, but we want to make it possible for you to buy everything, from cypress materials to paint and putty, from H. & Co., believing that every good thing you get from us makes you believe the more in us and in our houses --- our boilers.

HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.



WE DON'T ASK YOU TO MAKE A "TEST" OF OUR MATERIALS OR PRODUCTS



Now, the word "test" has another meaning, it's virtually a case of experiment — it costs money to experiment — you don't want to spend your money that way — we'll make all the "tests" at our expense, and when you buy materials from us you get a proven fact, for if the practicalness, the economy hadn't already been tested and proven we would not sell you those materials.

We'd, perhaps our materials may cost a shade more than the "make your own test kind" — but what's the test going to cost you? — there's where the actual real difference comes in.

Lord & Burnham Co.

GREENHOUSE DESIGNERS and MANUFACTURERS

1133 BROADWAY, cor. 26th Street, N. Y.
Boston Branch: 819 Tremont Building



TWEMLOW'S

Old English

Liquid and

For Bedding Glass in Sash or for Filling Cracks or Seams



Glazing Putty

Elastic

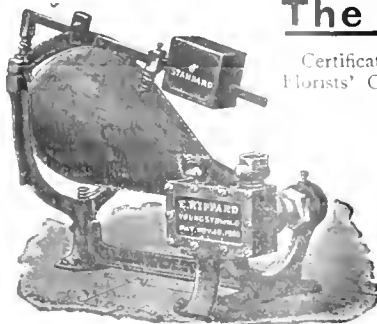
In Roof Joints or Frames of Greenhouses or Hotbeds.

It is used in Machine or Bulb. If too thick for bulb thin with a little Pure Linseed Oil, boiled. So thinned, it can be brushed into any crack or leak, making a solid filling. It makes a solid bed, impervious to moisture, and holds glass in its place, and will stop any crevice or fault. When once set on dry wood it does not heave. As regards the goods, the article is **no new invention** but simply an article of the very best class, to do thoroughly good work, like old time gentlemen expected when sashes were made with lead, and small panes of glass used, that caught the water and leaked unless set with an **elastic** putty which once set by a mechanic was expected to remain, and **did remain** in good shape. This Twemlow's Old English Glazing Putty does nothing more, nothing less. **SOLD BY THE FLORISTS' SUPPLY HOUSES.**

Manufactured in the United States only by

HAMMOND'S PAINT AND SLUG SHOT WORKS, FISHKILL-ON-THE-HUDSON NEW YORK

The Standard Steam Trap

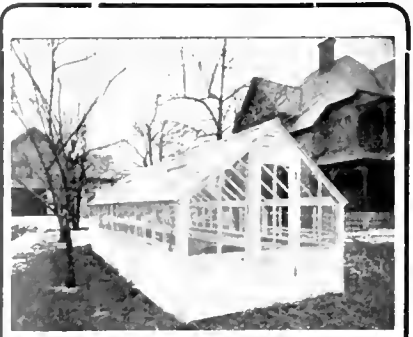


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HORTICULTURE

Vol. IV.

OCTOBER 6, 1906

No. 14



FIELD OF HYACINTHS
Hillegom, Holland.

Photo by Courtesy of W. H. Ransom & Co

Devoted to the
**FLORIST, PLANTSMAN,
LANDSCAPE GARDENER**
and
Kindred Interests

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EVERY SATURDAY
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(PALE YELLOW & WHITE).

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HORTICULTURE

VOL IV

OCTOBER 6, 1906

NO. 14

PUBLISHED WEEKLY BY

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Exquisite,	Ismarus,	Grandiflora,	Halseus,	Albiflora Edulis,	Hermus,
Hills Dwarf White,	Argus,	Duchess of Teck,	Bridesmaid,	Princess Maud,	Milton Hill,
Discordia,	Paradoxa Rosa,	O. B. Baldwin,	Areos,	Alonzo,	Appollo,
James Vick,	Auguste Lemoine-	Miss Brice,	Janus,	Prince George,	Queen of May,
Baroness Schroeder,	ier,	Vesper,	Emile,	Pulcherima,	Atlanta,
	Eugene Verdier,	Thurlow's Mixture	Hesperus,	Miss Kelway,	Papaveraeflora.

We have lost the labels of these and cannot locate the variety, therefore we will sell the whole lot of 5,000 Clumps AT A GREAT SACRIFICE

We need the room and wish to clear the field this fall. If you are interested send in your best offer.
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Have the FINEST AUSTRIAN and SCOTCH PINES, 3 to 8 ft., with balls, in the country. Also, SPRUCE and other EVERGREENS with balls. Other fine Nursery Stock. Begin to dig September 1st. Planters only.

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Write for 1906 Catalog

DAHLIAS. Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

DAVID HERBERT & SON,
 Successors to L. K. Peacock, Inc.
 ATCO, N.J.

Dendrobium formosum giganteum



Dendrobium formosum giganteum is the most popular of the nigro-hirsute forms of *dendrobium* and perhaps the easiest to cultivate. The black-hairy species of

dendrobium are scarce under cultivation, but *D. formosum giganteum* is no exception; however, with proper treatment a plant may be kept in good condition and may flower every season for a number of years. The straight species *D. formosum*, of which *giganteum* is a variety, I have never seen nor is it offered in any dealer's price list and I doubt if there is any difference between the species and its variety.

Its chief requirements are plenty of heat and moisture when growing. The growing season is short, the pseudo-bulbs reaching maturity in about three months, the flowers produced in apical clusters terminating the growth. The flowers are large, pure white, with a large stain of yellow on the lip, which varies in intensity in different plants, but is usually a rich orange. It is a native of Burmah, where it is subjected to a long spell of dry weather, and should only be given enough water during the resting period to prevent shrivelling. Plenty of light at all times is essential.

It may be grown in baskets or perforated pans which should be as small as possible, the best rooting medium being pure fern root and charcoal. During the growing season and especially after the pan or basket is fairly well filled with roots a liberal amount of liquid stimulant may be given.

James Hutchinson

Is the Dahlia of Value to the Flower Grower?

I do not think this question has received the proper amount of consideration and attention at the hands of the florist fraternity. Most attempts so far to introduce the dahlia into the cut flower market have originated from growers making a specialty of growing dahlias for the purpose of selling the tubers. The right introduction could not be expected from these sources for the following reasons: As a rule a dahlia grower grows great numbers of plants of a very limited variety, particularly of the well-known established sorts, which are more or less common, well advertised, and particularly adapted for garden bedding. It is far from me to give the impression that such varieties would not be suitable for cutting, on the contrary I consider them very profitable as in most cases they are selected on account of their productiveness in quantities of flowers. My objection is based only on the point that these varieties produce invariably the impression of commonness. Varieties which would be suitable for the purpose of introducing this flower to the best class of florists in this country are grown in small quantities only, as they are of more recent introduction and consequently rather expensive. Another important point to consider is that with the dahlia grower these varieties are grown for the purpose of exhibiting cut flowers at the various flower shows and fairs, where they are put up for an advertisement and a chance to book orders for root deliveries the following spring. Such a grower could not afford to rob his plants of the best products nor cut the flowers with sufficient lengths of stems to make them a saleable material for the retail florist. For some time a doubt existed in my mind whether dahlias had sufficient individual qualities that would enable them to be favorably received with the more prosperous class of flower lovers and thus a demand created. This doubt

has been entirely removed by two experiences which have come to me through my line of work. Some time this fall our firm exhibited a great number of choice and rare varieties of cactus dahlias at a fashionable resort near Boston. The ladies attending the exhibition had only words of admiration for them. Shortly after this we received a communication from a society lady who attended our exhibit inquiring if we could supply her with sufficient flowers for a table decoration to be used at a large dinner party. We gladly consented, and as a result applications were far more numerous than we welcomed, as our supply gave out. These dinner decorations are now a subject of discussion in society circles and the eventual result can hardly be foretold.

Another experiment of a similar nature has produced the same result. Through a personal interview one of the foremost retail florists of New York consented to make an effective display of dahlias in his show-windows. The prices realized were equal to those of fancy roses at the present market and I feel the greatest confidence in predicting a glorious future for the dahlia.

A word of advice to those who are anticipating the growing of dahlias for the cut flower market. It is most essential that proper attention should be given to the selection of the varieties for this purpose. As secretary of the newly-formed dahlia society I have the interest of that flower at heart and I shall be only too glad to reply to the readers of *HORTICULTURE* through its columns to all questions brought forward, as well as my ability permits me.

Maurice Fuld

Secretary American Dahlia Society.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone Oxford 292

WM. J. STEWART, Editor and Manager.

The prosperous bulb trade We present some interesting bulb pictures in this issue. There will also be found in our advertising columns some tempting bulb offers, which we hope our readers will take advantage of. From the dealers we learn that the general bulb demand this fall is unprecedented in volume, the advance orders being in some instances so large that doubt is expressed of ability to fill them. Nothing is simpler than the building up of a profitable garden bulb trade by the local florist. A few dollars' worth of first-class varieties conspicuously planted can be made the means of selling many thousands when they are in bloom next spring, for fall delivery.

The qualifications of a gardener We have heard considerable of late concerning the education necessary to the making of a gardener worthy of the name. Between forty and fifty years ago there was published in London a volume entitled "The Young Gardener's Educator." The subjects treated upon as essentials included English grammar, geology, botany, vegetable physiology, horticultural chemistry, physical geography, entomology, measuring, architectural drawing, letter-writing and penmanship. Quite an ambitious array, but the man who has mastered all these need have no fear that he will ever be asked by his employer to "milk the cow or sift the ashes."

About the house plant The house plant is sure to be an issue again this season. The popular demand grows apace, and it only remains with the growers and dealers to assure its continuance and constant increase from year to year indefinitely. The need for more attention to the proper preparation and hardening off of both foliage and flowering plants for a more enduring existence after they have passed into the hands of the retailer, can not be overdrawn. In a majority of cases the most essential point in the healthy development of the house plant business is given minor consideration, and the great and promising

future is lost sight of and its splendid opportunities recklessly sacrificed in the blind scramble for the dollar of the moment.

The dahlia in the flower market The views expressed by the secretary of the newly-organized dahlia society in this issue strike us as well-founded and distinctly practical. It is very true that no commercial grower has yet taken up the culture of the dahlia primarily for cut flower purposes in a wholesale way. The blooms have come in as a by-product only and their qualifications for position in the cut-flower market has been a secondary consideration. One look at the crates of blooms as shipped from the dahlia fields to the city flower markets will quickly convince anyone of the facts as Mr. Fuld states them. The possibilities under conditions giving a paramount consideration to the dahlia's value as a standard cut-flower treated on the same basis as are roses, carnations, asters and sweet peas, will readily suggest themselves.

Help the exhibitions About three weeks remain before the opening of the series of fall exhibitions which have been instituted in nearly every community from the Atlantic to the Pacific where horticultural industry has obtained a foothold. We reiterate our advice, often before repeated, that every florist and gardener who can possibly do so, should plan to visit one or more of these—the more the better—and, moreover, make it a point to contribute to at least one of these shows examples of his own cultural or artistic ability. We cannot conceive how any one engaged in horticultural employment, whether commercial or otherwise, can ignore these important affairs or underrate their substantial value to him. No better educational incentive can be imagined for the progressive florist and gardener, and there exists no more effectual stimulus to a public interest in his products and a willing expenditure for what he has to offer whether it be his services or his goods.

The advertising problem One of our contemporaries advances the proposition that the paper carrying the most advertisements is invariably the best advertising medium. May be, sometimes, but not always. There are a good many ifs to be considered. The paper from which we quote seems to forget the strenuous claims it made on its own behalf a few years ago when it was very shy on advertising patronage. Advertisers have learned that advertising returns from any source are perplexingly elusive and incomprehensible at times. HORTICULTURE has nothing to complain of in the extent of its patronage, seeing it is not yet two years old, and its advertisers seem to be as well satisfied with the business it brings them as any one could wish. Good reading matter from which intelligent readers can draw useful information has been HORTICULTURE'S trump card from the beginning and an increasing number of wide-awake advertisers are reaping the benefit therefrom.

OUR COLORED SUPPLEMENT.

It is with much pleasure that we present the readers of HORTICULTURE with what is undoubtedly the most striking and beautiful print of daffodils ever issued. Of the three superb varieties of narcissi therein depicted the London Garden has this to say: "The magnificent White Ajax Peter Barr did undoubtedly attract more notice on its introduction than any other flower, because it was, up to then, the largest white Trumpet Daffodil that had made its appearance. Its advent in 1902, when it gained a first-class certificate from the Narcissus Committee of the Royal Horticultural Society, appeared to be the signal for an all-round advance in the quality and size of white trumpets, for in the year following five superb varieties, all of which have received certificates, made their appearance, i. e., Francesca, Loveliness, Mrs. R. Sydenham, Mrs. George Barr, and Henri Vilmorin. Each year since then additions have been made to this section, and the dearth of good white Trumpet Daffodils, which once existed, is now a thing of the past. It is scarcely necessary to lay stress on the important part which that grand variety Mme. de Graaff has played in the production of this fine new race of flowers. It will suffice to add that it is one of the parents, not only of Peter Barr, but of its great rival, Pearl of Kent, raised by the Rev. G. P. Haydon, and considered by many of the best judges as likely to eclipse the former variety. It is, however, an invidious task to make comparisons, unless one has had the good fortune to see all the numerous varieties growing side by side. Peter Barr is a remarkable vigorous plant, and it is a great point in favor of most of these newer varieties that they are capital growers. It was raised by Messrs. Barr and Sons.

Monarch.—Seventeen years ago (vide Journal of the Royal Horticultural Society, Vol. XI, Part II) Mr. Engleheart was lamenting the want of "a big and sturdy midseason or late flower such as Emperor, but with the rich golden yellow of maximus, which is not always happy in England." Since then King Alfred has appeared, but it has in no way supplied the deficiency. The remarks made in reference to maximus are equally applicable to it. A glance through the various trade catalogues will quickly convince anyone that there is ample room for improvement in the self yellow Ajax section, and it is to the strengthening of this section that the hybridist should now address himself. Monarch, which is also portrayed in the colored plate, has the unique distinction of being the other parent of both Peter Barr and Pearl of Kent. It was introduced in 1895, and has proved a strong, vigorous grower and increases quickly. The plant scarcely attains the height of Emperor, and the flower, though larger and richer in color, is not as effective in the garden, on account of its drooping appearance. In this respect it somewhat resembles Grandee, because the flower does not display itself to the best advantage on the plant. As a pollen parent it has already demonstrated its worth, and, in addition to the two noble white Ajax varieties already alluded to, several fine yellow trumpets, notably, Cleopatra, have been raised from it.

NEW WHOLESALE QUARTERS

WELCH BROTHERS, DCST



Conspicuous success in business undertakings is so exceptional that when such has been attained by a firm or individual the occasion is of sufficient importance to merit something more than a passing notice. We look upon the opening this week of Welch Brothers' new wholesale cut flower and supply establishment in Boston, an exterior view of which appears herewith, as an event to which especial distinction should be given. Lord Bacon said that "chiefly the mould of a man's fortune is in his own hands" and Holmes struck the key of universal sentiment when he wrote that "Everybody likes and respects self-made men." The truths set forth in these quotations are well-exemplified in the career of the firm of which we write. Prosperity, confidence, and pre-eminence in their avocation, have not come to them suddenly or through fortuitous circumstance but through long, arduous years this monument to their courage, sagacity and diligence has been erected by their own industry commencing at the very bottom with "a heart to resolve, a head to contrive and a hand to execute" and so we are glad to congratulate Messrs. Welch Bros., and Boston, and the New England trade on this auspicious event in the history of the flower business.

A detailed review of the career of this firm could add nothing to the value of what we have here written.

Suffice it to say that the new establishment is eligibly situated in the centre of the business section of Boston, the location being chosen because of its convenience of access from railroad terminals and proximity to express offices. The move has been forced by the tremendous increase in business and insufficiency of room in their old quarters and takes into consideration the probable greater demands of the near future. The two floors occupied comprise an area of nearly 13,000 square feet. Two great storage rooms—one 15 x 55, the other 12 x 45—have been constructed, with thick insulating walls and every accessory for the care and handling of flowers. The Remington process of ammonia cooling, with a 15 h. p. Stanley motor to operate it has been installed, steam power being also in reserve for use in case of accident to the electric power. It is expected that the use of this process will effect a large saving over the cost of ice and a further advantage lies in the fact that the graduation of the temperature in each compartment will be under absolute control.

A complete florists' supply department including a wire-working establishment is located on the basement floor. Offices, furniture and the equipment of the packing and shipping department are up-to-date in every particular. A stream of visitors has been coming and going ever since the opening on last Monday morning.

For this purpose it may, therefore, be specially commended, and all those who are engaged in seedling raising should procure it now that it has fallen in price from £15 15s. to 12s. 6d. per bulb.

Weardale Perfection.—Of this lovely flower, what higher praise can be said than that it is the finest of all that set of noble seedlings raised by the late Mr. William Backhouse of St. John's, Walsingham, and in which were included such sterling varieties as Emperor and Empress? Introduced a year in front of Monarch, this variety

is only slightly more expensive, and as a pollen parent has proved equally as useful. The many exquisite white Ajax varieties raised by that keen enthusiast, Mr. Ernest Crossfield, all have Weardale Perfection as their pollen parent, and a more lovely race of flowers has not yet been exhibited. In comparison both with Peter Barr and Monarch, Weardale Perfection is a considerably taller grower, and its flowers, which have been compared to those of a gigantic *N. pallidus praecox*, have been known to attain 5 inches across."

NEWS OF THE CLUBS AND SOCIETIES

NEWPORT HORTICULTURAL SOCIETY.

The meeting of the Newport Horticultural Society, held Tuesday evening last, of necessity resolved itself into a good sized exhibition of plants, flowers, fruit and vegetables. At the exhibition held in August, dahlias were far from being at their best, and as the popularity of these flowers has in no way diminished, it was primarily on their account that the exhibition of Tuesday evening was arranged. The display of cactus flowered and single dahlias was very creditable, the local growers showing better blooms than were ever seen here before. Wm. F. Turner, New Bedford, showed some blooms of the cactus type that were a revelation to our local enthusiasts. James Robertson, James J. Sullivan, Samuel Watson, James Boyd, Colin Robertson and W. S. Sissen were the most successful dahlia exhibitors. James Robertson scored a great success with his seedling single, which made a magnificent showing in a large vase.

Samuel Watson exhibited a good seedling of the type of *Nymphaea*, which promises to be a very useful variety for bedding and cutting. James J. Sullivan showed a red decorative seedling much resembling Catherine Duer in color and form, not so large or full nor on the whole as good a flower, but superior in stem. W. F. Turner staged several of the best of the introductions of 1906 in cactus dahlias.

Richard Gardner showed *oncidiums*, *cattleyas* and *anthuriums*; John Marshall, *cattleyas* and *gladioli*; David McIntosh, *dracaenas*; Samuel Speers, a large collection of pears; Mr. John Baumgartner, a collection of hot house and out-door fruit. In addition to dahlias, Colin Robertson showed well-grown crotons and a large collection of vegetables. Messrs. G. S. Stoddard, George Taylor and Albert Johnson also showed dahlias. Alex. Main received an award for a faucy basket of flowers made up with dahlia Catherine Duer principally. James Boyd showed carnations and American Beauty roses.

The judges were David Smith of Stranraer, Scotland; Bruce Butterlin and Stewart Ritchie.

FLORISTS' CLUB OF PHILADELPHIA.

A general discussion as to ways and means for the 1907 S. A. F. convention which meets in Philadelphia next August, and the annual election of officers, were the principal features of the monthly meeting of the Philadelphia club which took place on the 2nd inst. Samuel S. Pennock was elected president; Frederick Bahman, vice-president; Edwin Lonsdale, secretary, and J. William Colflesh, treasurer. E. G. Hill & Co. sent an exhibit of their new *hydrangea* which attracted a great deal of interest. *Arborescens grandiflora alba* is the euphonious title it sails under. The blooms are large, of the purest snow white, and in form resembling the old *Hortensia* variety. This looks like a valuable addition to our list of shrubs if all that is said of it be true,

not only for outside but for greenhouse culture.

The subject selected for next meeting, November 6th, was chrysanthemums for exhibition. William Robertson was given the honor of telling what he knows on this topic. If he can talk anyway near as good as he can grow prize winning chrysanthemums there will be something doing at next meeting. All the experts are looking forward to hearing some good straight talk from a man who thoroughly knows his subject.

CHRYSANTHEMUM SOCIETY OF AMERICA.

President Duckham has announced the committees to examine seedlings and sports on dates as follows: October 6, 13, 20 and 27, November 3, 10, 17 and 24, 1906.

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, or may accompany the blooms. Special attention is called to the rule requiring that sports, to receive a certificate, must pass three committees.

NEW YORK.—Eugene Dailedouze, chairman, care of New York Cut Flower Company, 55-57 Twenty-sixth street; William Turner, Thomas Head.

PHILADELPHIA, PA.—A. B. Cartledge, chairman, 1514 Chestnut street; John Westcott, Wm. K. Harris. Ship flowers in care of the chairman.

BOSTON, MASS.—E. A. Wood, chairman; Wm. Nicholson, James Wheeler. Ship to Boston Flower Market, care of the chairman.

CINCINNATI, O.—R. Witterstaetter, chairman; James Allen, Wm. Jackson. Ship to Jabez Elliott Flower Market, care of janitor.

CHICAGO, ILL.—J. S. Wilson, chairman; J. B. Deamud and George Wienhoeber. Ship care of J. B. Deamud, 51 Wabash avenue.

The official scales of the C. S. A. are as follows:

For Commercial Purposes.		For Exhibition Purposes.	
Color	20	Color	10
Form	15	Stem	5
Fullness	10	Foliage	5
Stem	15	Fullness	15
Foliage	15	Form	15
Substance	15	Depth	15
Size	10	Size	35
Total.....	100	Total.....	100

DAVID FRASER, Secretary.
Pittsburg, Pa.

HORTICULTURAL SOCIETY OF NEW YORK.

The opening meeting for the winter session of the Horticultural Society of New York will be held on Wednesday, October 10th, in the Museum Building of the New York Botanical Garden. In connection with the meeting, there will be an exhibition of hardy flowers, etc., which will be continued on Thursday. Specimens of interest are solicited. The exhibition not being of a competitive character, the awards will be made on the merits of the individual exhibits. Further application can be made to the Secretary, Leonard Barron, 133 East 16th street, New York City.

AMERICAN CARNATION SOCIETY.
Carnations Registered.

By F. Dorner & Sons Co., Lafayette, Ind. Red Chief, an even, clear shade of scarlet, very early and exceptionally free; Bonnie Maid, edged white and shaded to a pink center; Winona, a clear medium pink.

ALBERT M. HERR, Secretary.
Lancaster, Pa.

The Wappingers Dahlia Society held their sixth annual exhibit in Park Hall, Wappingers Falls, N. Y., on September 21 and 22. Although the display of dahlias was not up to last year's standard it was conceded to be a success. The schedule contained 117 classes. Wm. P. Clyde, gardener H. J. Osterhoudt, won the silver cup for the best collection of dahlias and the Sunny Field Nursery Co.'s prize for the best collection of herbaceous flowers. The judge of exhibits was George H. Hale of Seabright, N. J.

PERSONAL.

Mr. and Mrs. John Lambert, of Fall River, Mass., observed their fifteenth wedding anniversary on September 22.

Maurice E. Cook, of the firm of H. A. Cook & Sons, of Shrewsbury, Mass., and Carrie Eunice Harrington, were married on September 26.

James McKellar, with Graff Bros., Columbus, Ohio, was taken suddenly sick last week, and his friends in the craft fear a fever. Mr. McKellar is the secretary of the Columbus Florists' Club.

Visitors in Boston this week: E. D. Sturtevant, Hollywood, Cal., John Waterer, Bagshot, England, A. M. Rennie, Providence, R. I., A. Hans, Stamford, Conn., S. B. Dicks, London, England.

R. L. Adams, well known as a frequent contributor to *HORTICULTURE* on entomological and other topics, has taken a position in the California Experiment Station, Berkeley, Cal., under Prof. R. E. Smith, where he will be engaged in special work on the pear blight.

NEWPORT NOTES.

John Daly has been appointed gardener to Mrs. John Nicholas Brown, and J. Smith has dropped into Mr. Daley's place at Mrs. Grosvenor's.

F. L. Zeigler for the past week had a daily exhibition of dahlia blooms in his store windows for the guidance of intending purchasers for next season's planting; good idea isn't it?

Mr. Pembroke Jones, who recently purchased the Havemeyer estate, intends to completely change the character of the grounds. The chief necessities for the attainment of that end he considers choice evergreens in large numbers.

Last week the greenhouses of Philip Caswell in Middletown were sold at auction, to be moved off in thirty days; poor prices ruled at the sale. Carl Jurgens bought one house and Messrs. Howland of Jamestown, and Duckham of Middletown bought one each, and Robert Curry and others bought the rest; to be torn down.

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OBITUARY.

C. Wm. Turnley.

One more familiar figure at the S. A. F. conventions has gone to his reward. Chas. W. Turnley, who passed away in Haddonfield, N. J., on the 17th ult., had almost without exception attended every convention of the society since its inception. The meeting at Dayton was his last. He had a fall the day he started for the convention and this, combined with the heat and the fatigue of the journey, proved so serious that he never rallied, although



the cause of death is given as kidney trouble. He was born in London and in his early days conducted an educational institution in Camden, N. J., where latterly he had a flower store in addition to his home and greenhouses, at Haddonfield. At the time of his death he was in his 80th year and was a wonderful man for his age. He was vice-president of the S. A. F. for New Jersey. The business will be conducted by his son, A. L. Turnley.

Francis J. Reynolds, for many years engaged in the florist business on lower Fulton street, Brooklyn, N. Y., died on September 28 at his home, 330 Bergen street.

Theodore Searles of Greenwich, Conn., died on September 21, aged 68.

NEWS NOTES.

Gibbs Bros., Lynn, Mass., announce their removal about October 12, to 263 Union street.

In the terrible hurricane that swept over the Gulf Coast last week the florists of Mobile were heavy losers.

G. F. Neipp has removed to Floral Hill Gardens, Chatham, N. J., his property at Woodhaven, N. Y., having been taken by the city.

L. W. Ripley, of Farmington, Me., has purchased the greenhouse of Z. H. Greenwood, and will move it to the Bradbury estate where he will carry on business in future.

Dudley & Son, of Parkersburg, W. Va., have moved into their new building, corner of Fifth and Juliana streets, where they have one of the most elegantly equipped stores in that locality.

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Seed Trade Topics

More definite information regarding the entire seed crop begins to arrive, and some estimates of probable deliveries are given. If final figures sustain the preliminary estimates we may count on 75 to 80 per cent. on the Red Flat varieties, 50 to 60 per cent. on Red Globes, 75 to 80 per cent. on White Portugal, 50 to 60 per cent. on Prizetaker and White Globe, 20 to 30 per cent. on the Danvers Yellow Globes, and 15 to 25 per cent. on the Flat Danvers and Strasburg Yellow.

Just why the yellows are so much below the red varieties, and even the whites which are considered less able to withstand unfavorable conditions, has not been explained, but it would be interesting to learn. Assuming these estimates to be borne out by final deliveries, many will have to recast their figures and their ideas of prices; for while the red varieties are promising better than was expected, the yellow sorts are correspondingly disappointing. In view of the comparatively liberal quantities of reds, they may operate to keep the yellow from soaring to the abnormally high figures, but undoubtedly there will be a decided disparity between the two under any conceivable conditions.

It is thought Canada Field peas are more abundant than for the past few years; this may prove an illusion, however, because crops of other peas of all varieties are fully as short as last year, and it is difficult to prove that Canada Field peas have made materially better crops. The average, of course, may have been increased, but this has not been shown. The opinion is here expressed that now is a good time to buy these peas.

As to garden peas particularly the fancy large-podded sorts, they are going to be disappointingly short. "Canners" sorts also are quite short, but unless there is a revival in the demand, there will be enough of the dwarf wrinkled varieties to satisfy all requirements. A good bean crop is now practically assured which will mean falling prices.

Catalogue seedsmen are up in the air over prices on many lines, but particularly onion seed, and to decide on just the right prices is certainly a very perplexing problem.

No killing frosts are reported yet from any part of the country which is most remarkable, though of course not unprecedented. Still we seldom get through September without severe frost either east or west.

The recent hurricane seems to have done great damage to fall crops in all of the Gulf States, but particularly Alabama. This will not materially benefit the seedsmen since it is too late for replanting most varieties.

Rickards Bros., the young New York seed firm, are starting in just as one would expect to see a hustling and energetic firm start in, by making their show windows talk. For the last three weeks their windows have been all aglow with gladioli and dahlias, and now they present a collection of tempting specimen vegetables that will not be forgotten when seed selling time comes next spring.

H. E. Fiske & Co., the new seed house of Boston, have been making a

CYCLAMEN SEEDS (New Crop)

MICHELL'S GIANT STRAIN

Grown for us by one of the leading growers in Europe, and cannot be excelled in size of blooms and free flowering qualities.

GIANT WHITE	GIANT PINK	GIANT RED	GIANT WHITE with Red Eyes
Price, per 100 Seeds 75c.; \$5.00 per 1000 Seeds			
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Write us for **Special Prices** on your Bulb list.

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splendid display of choice dahlias in their show windows the past week. They catch the crowd, all right.

A HOLLAND TULIP FIELD.



PHILADELPHIA NOTES.

"The Florists of the Universe" started in with a rush at the opening of the S. S. Pennock-Meehan Co. consolidation on Monday last. An elegant little booklet finely printed and freely illustrated has been issued giving a history of the firm and explaining the facilities.

An organization formed last spring among the Philadelphia wholesalers for the regulation of credits and for mutual protection has been unable to agree on a workable basis and has abandoned the effort for the present. But regrettable as this is, much good has already been done by the thorough discussion and ventilation of the subject. It is reported by the trade generally that accounts are much better paid up and more satisfactory in every way than formerly.

Edwin J. Fancourt has just returned from a six weeks' business trip west and reports trade very satisfactory especially in the ribbon and supply line of which he is the manager for his firm.

The McKissick forces came out this week uniformed in dark brown work ulsters trimmed with brass buttons and other fancy work.

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" " Lettuce	.10	.40	1.10	4.00
" Crumpled Leaf Lettuce	.10	.40	1.10	4.00
" Scarlet Conical Radish	.05	.10	.30	1.00

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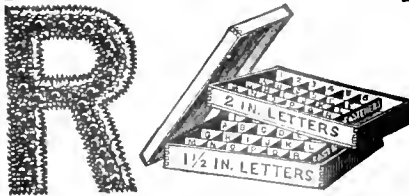
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Bride & 'Maid—Fan. & Sp.....	4.00 to 6.00	3.00 to 4.00	6.00 to 8.00	3.00 to 6.00
" Ordinary.....	3.00 to 4.00 to 2.00	2.00 to 3.00	.50 to 2.00
Golden Gate, Fancy.....	5.00 to 6.00	3.00 to 4.00	6.00 to 8.00	3.00 to 4.00
" Ordinary.....	3.00 to 4.00 to 2.00	2.00 to 3.00	.50 to 1.00
Liberty, Fancy.....	5.00 to 6.00	3.00 to 5.00	6.00 to 8.00	3.00 to 8.00
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" Ordinary.....	3.00 to 4.00	3.00 to 4.00	4.00 to 5.00	.50 to 3.00
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Fancy.....	2.00 to 3.00	1.00 to 1.50	2.00 to 3.00	1.50 to 3.00
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Chrysanthemums.....	20.00 to 30.00 to	20.00 to 25.00 to
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CUT FLOWER MARKET REPORTS

BOSTON The market is doing much better this week. Asters and other out-door flowers are falling off rapidly in quality and quantity and carnations are forging ahead on both these points. American Beauty roses and lily of the valley sell very well and the demand for both is gratifyingly steady. Bride and Bridesmaid roses are badly in the rear and are really the worst item on the list. The quantity of material coming in is very light, as a rule.

BUFFALO The last week in September was exceptionally good in the cut flower line. The weather being considerably cooler materially shortening the supply. Roses are better quality, especially Brides and Bridesmaids. Kaiserins, Carnots, Killarneys, Chateaus and Richmonds were in fine form and the quality of Beauties was excellent. Good demand was also had on speciosum and longiflorum lilies, also lily of the valley and other in-door stock. Carnations were in greater demand, but the supply very short. Asters are few, but are at times the life-saver when floral work is in evidence. The same may be said of gladioli, especially the light variety. Dahlias have been in good demand, selling at fair prices. Adiantum and all greens in good supply, and demand better than previous report.

CINCINNATI With the advent of cool weather and the return of absentees from the sea shore and mountain resorts business continues to improve and the quality of stock is gradually getting better. There is more activity around the wholesale houses, and the only thing now lacking is enough good flowers to meet the demand. New stock is short-stemmed, while the roses from old plants in most cases are badly mildewed. Beauties are fairly good and are in demand. While second grade stock is now selling for more than it is worth, the arrival of chrysanthemums in quantity will cause a change; the advance guard is now with us, several hundred good blooms having been used for special calls. Wedding orders are more numerous, several large ones being booked for this week.

COLUMBUS The cooler weather is bringing us a much better quality of stock, with the result that trade has been very much benefitted. Roses of all kinds are very good; American Beauties especially so for the season. Carnations are still very poor. Chrysanthemums are beginning to appear, but go slowly always until cold

weather. The first violets of the season were offered this week by Graff Brothers. They were Princess of Wales and sold satisfactorily. Outdoor flowers are about over; they have not been especially good in quality this year. No signs of frost as yet.

LOUISVILLE Business conditions the past week were satisfactory. Stock, with the exception of carnations, was in good supply; carnations were very hard to get, and had a great call. Roses average good in quality, and the supply is excellent; the demand is unusually satisfactory, especially in beauties. Asters are about gone. Lily of the valley finds a fair demand. Greens, etc., are in satisfactory supply.

PHILADELPHIA Business has improved noticeably all along the line the past week. The cooler weather shortened up supplies and at the same time had a good effect on quality.

The demand was excellent and prices generally were firmer. Judging from the unusual number of licenses taken out, October is going to be a record breaker in weddings, which will be a good thing for the trade. Roses are not plentiful with the exception of Liberty and Richmond. American Beauty is scarce as yet and there are no signs of any over-supply in that direction. The quality of the staple tea roses is now very fair. Carnations are in good demand with quality fair and quantity on the short side, as it should be at this season. Dahlias still plentiful and very good; no frost as yet to damage them. Lily of the valley good, fairly plentiful and selling well. There are a few Easter lilies, gladioli and asters still arriving and meeting fair demand. Good cattleyas and some scattering of other orchids are procurable; but there is no great enquiry for these at present. The south is now sending in a good supply of wild smilax and green galax of excellent quality. The bronze galax is also in quantity but cold storage.

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From Horticulture, Sept. 8, 1906.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Sep. 29 1906	First Half of Week beginning Oct. 1 1906	Last Half of Week ending Sep. 29 1906	First Half of Week beginning Oct. 1 1906
Roses				
Am. Beauty, fan and sp.	15.00 to 25.00	20.00 to 30.00		
" extra.	8.00 to 12.00	10.00 to 15.00		
" No. 1.	4.00 to 6.00	8.00 to 10.00		
" Lower grades.	1.00 to 3.00	1.00 to 5.00		
Bride & 'Maid, fan and sp.	3.00 to 5.00	4.00 to 8.00		
" Ordinary. ....	.25 to 2.00	.50 to 2.00		
Golden Gate, fancy.	3.00 to 5.00	4.00 to 8.00		
" ordinary. ....	.25 to 2.00	.50 to 2.00		
Liberty, fancy.	3.00 to 5.00	4.00 to 8.00		
" ordinary. ....	.25 to 2.00	1.00 to 2.00		
Richmond, fancy.	3.00 to 6.00	4.00 to 8.00		
" ordinary. ....	.25 to 2.00	1.00 to 2.00		
Kaiserio, Carnot, Chatenay, fancy.	3.00 to 5.00	4.00 to 8.00		
" " ordinary. ....	.25 to 2.00	.50 to 2.00		
Carnations, Fancy.	1.00 to 2.00	2.00 to 3.00		
Carnations, Ordinary. ....	.50 to 1.00	1.00 to 1.50		
Chrysanthemums. ....	..... to .....	..... to		
Cattleyas.	50.00 to 75.00	50.00 to 75.00		
Lilies.	4.00 to 8.00	8.00 to 12.00		
Gladioli. ....	.50 to 1.00	.50 to 1.00		
Asters. ....	.25 to 1.00	.50 to 1.00		
Lily of the Valley.	1.00 to 3.00	1.00 to 3.00		
Liliums. ....	..... to .....	.50 to 2.00		
Tuberoses. ....	..... to .....	..... to		
Mignonette. ....	..... to .50	..... to .50		
Adiantum Cuneatum. ....	.25 to .50	.50 to .75		
" Croweanum.	1.00 to 1.50	1.00 to 1.50		
Smilax.	6.00 to 10.00	6.00 to 10.00		
Asparagus Plumosus.	10.00 to 25.00	15.00 to 25.00		
" " & Sprengeri, bunches	15.00 to 35.00	10.00 to 25.00		

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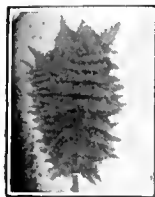
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	CINCINNATI October 2	DETROIT October 2	BUFFALO October 1	PITTSBURG October 1
ROSES				
Am. Beauty, fan and sp.	20.00 to 25.00	20.00 to 30.00	20.00 to 25.00	20.00 to 25.00
" extra	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00	15.00 to 18.00
" No. 1	8.00 to 10.00	6.00 to 8.00	10.00 to 15.00	8.00 to 12.00
" Lower grades	4.00 to 6.00	3.00 to 6.00	3.00 to 10.00	4.00 to 6.00
Bride & 'Maid—Fan, and Sp.	5.00 to 6.00	5.00 to 6.00	6.00 to 8.00	5.00 to 6.00
" Ordinary	2.00 to 3.00	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Golden Gate, Fancy	5.00 to 6.00	5.00 to 6.00	6.00 to 8.00	5.00 to 6.00
" Ordinary	2.00 to 3.00	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Liberty, fancy	5.00 to 6.00	5.00 to 6.00	7.00 to 8.00	5.00 to 6.00
" Ordinary	2.00 to 3.00	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Richmond, Fancy	5.00 to 6.00	5.00 to 6.00	7.00 to 8.00	5.00 to 6.00
" Ordinary	2.00 to 3.00	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Kaiserin, Carnot, Chatenay, Fancy	5.00 to 6.00	5.00 to 6.00	7.00 to 8.00	5.00 to 6.00
" Ordinary	2.00 to 3.00	3.00 to 4.00	3.00 to 6.00	3.00 to 4.00
CARNATIONS				
Fancy	1.50 to 2.00	1.50 to 2.00	2.00 to 2.50	2.00 to 2.50
Ordinary	.75 to 1.00	.75 to 1.00	1.00 to 1.50	1.00 to 1.50
MISCELLANEOUS				
Chrysanthemums	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00
Cattleyas	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Lilies	8.00 to 10.00	10.00 to 15.00	5.00 to 15.00	18.00 to 20.00
Gladioli	2.00 to 3.00	2.00 to 4.00	1.50 to 3.00	3.00 to 4.00
Asters	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.50 to 2.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Dahlias	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Tuberose	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Mignonette	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Adiantum Cuneatum	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
" Crownatum	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax	10.00 to 12.00	10.00 to 12.00	12.50 to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	40.00 to 50.00	40.00 to 50.00	35.00 to 50.00
" " & Sprenger, bunches	35.00 to 40.00	25.00 to 40.00	25.00 to 50.00	30.00 to 40.00

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Boston Ferns.
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- J. B. Murdoch & Co., 545 Liberty St. Pittsburg, Pa.
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FLOWERS BY TELEGRAPH.

- Alex. McConnell, New York.
For page see List of Advertisers
- Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
For page see List of Advertisers
- J. Brettmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
For page see List of Advertisers
- Thos. Young, Jr., 41 W. 28th St., New York
For page see List of Advertisers
- Eyres, 11 N. Pearl St., Albany, N. Y.
For page see List of Advertisers.
- George H. Cooke, Washington, D. C.
For page see List of Advertisers
- Gude Bros. Co., 1214 F St., Washington, D. C.
For page see List of Advertisers
- Samuel Murray, 1017 Broadway, Kansas City, Mo.
For page see List of Advertisers
- Young & Nugent, 42 W. 28th St., New York.
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- Theodore Miller, 1832 Delmar Bvd., St. Louis, Mo.
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FLOWERING PLANTS.

- Baudisch & Co., Union Hill, N. J.
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- FLOWER POTS.**
W. H. Ernest, 28th and M Sts., Washington, D. C.
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- A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers
- Hilfinger Bros., Ft. Edward, N. Y.
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GALAX.

- H. M. Robinson & Co., 8-11 Province St. Boston.
For page see List of Advertisers.
- Michigan Cut Flower Co., Detroit
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GERANIUMS.

- A. M. Herr, Lancaster, Pa.
For page see List of Advertisers.

GLADIOLI.

- Arthur Cowee, Meadowvale Farm, Berlin, N. Y.
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GLASS.

- Boston Plate & Window Glass Co., Boston.
For page see List of Advertisers.
- Standard Plate Glass Co., Boston.
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GLAZING POINT.

- H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

- Lord & Burnham Co., 1133 Broadway, New York.
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- Pierson U-Bar Co., 1 Madison Square, New York.
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- Hitchings & Co., 1170 Broadway, New York.
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- A. T. Stearus Lumber Co., Neponset, Boston.
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- King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.
- J. C. Moulner Co., 117 East Blackhawk St., Chicago, Ill.
For page see List of Advertisers.
- Weathered Co., Box 789, New York.
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- Foley Mfg. Co., 471 W. 22nd St., Chicago.
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- Chas. H. Manley, Premier Mfg. Works, St. Johns, Mich.
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HARDY FERNS AND SUPPLIES.

- H. M. Robinson & Co., 8-11 Province St., Boston, Mass.
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- The Kervan Co., 20 W. 27th St., New York.
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- Michigan Cut Flower Co., 38 and 40 Miami Ave., Detroit, Mich., Wm. Dilger, Mgr. Fancy Ferns.
For page see List of Advertisers.
- E. A. Beaven, Evergreen, Ala.
Eternal Moss; Lyrata.
For page see List of Advertisers.
- L. B. Bague, Hinsdale, Mass.
Hardy Cut Ferns, Christmas Trees, Baled Spruce.
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HARDY PERENNIALS.

- M. H. Walsh, Woods Hole, Mass.
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- Bay State Nurseries, 699 Adams St., N. Abington, Mass.
Hardy Herbaceous Perennials.
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- Ludvig Mosbaek, Oxnard, Ill.

HEATING APPARATUS.

- Lord & Burnham Co., 1133 Broadway, New York.
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- Pierson U-Bar Co., 1 Madison Square, New York.
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- Hitchings & Co., 1170 Broadway, New York.
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- John A. Scollay, 73 & 75 Myrtle Ave., Brooklyn, N. Y.
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- Gurney Heater Mfg. Co., 188 200 Franklin St., Cor. Pearl, Boston, Mass.
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- Kroeschell Bros., 35 Erie St., Chicago
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HELICONIAS.

- Julius Reehrs Co., Rutherford, N. J.
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SCUS SYRIACUS MEEHANI.

- P. J. Borchmats Co., Highland Nurseries, A. 22nd St., New York.
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HOT-BED SASH.

- A. L. Stearus Lumber Co., Neponset, Mass.
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- Hitchings & Co., 1170 Broadway, N. Y.
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- Lord & Burnham Co., 1133 Broadway, N. Y.
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INSECTICIDES.

- Hammond's Paint & S. S. Works, Fishkill, N. Y.
Hortileum.
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JAPANESE PLANTS.

- Yokohama Nurseries, 31 Barclay St., N. Y.
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KENTIAS.

- Godfrey Aschmann, 1012 Ontario St., Philadelphia.
For page see List of Advertisers.
- Wm. W. Edgar Co., Waverly, Mass.
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- A. Lenthly & Co., Roslindale, Mass.
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KOSTER'S BLUE SPRUCE.

- J. H. Troy, New Rochelle, N. Y.
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LEADING RETAIL FLORISTS.

- Alex. McConnell, New York.
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- Thomas Young, Jr., New York.
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- Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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- J. Brettmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.
- George H. Cooke, Washington, D. C.
For page see List of Advertisers.
- Samuel Murray, 1017 Broadway, Kansas City, Mo.
For page see List of Advertisers.
- Gude Bros. Co., 1214 F St., Washington, D. C.
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- Eyres, 11 N. Pearl St., Albany, N. Y.
For page see List of Advertisers.
- Young & Nugent, 42 W. 28 St., New York
For page see List of Advertisers.
- Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled
Long distance telephone connections.
- Theodore Miller, 1832 Delmar Bvd., St. Louis, Mo.
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LILIUM HARRISII.

- F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
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- H. F. Mitchell Co., Philadelphia.
Lilium Harrisii from the Azores.

MASTICA.

- F. O. Pierce Co., 170 Fulton St., New York.
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- Joseph Breck & Sons, 47 54 N. Market St., Boston.
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MOREHEAD RETURN TRAP.

- Moorehead Mfg Co., Detroit, Mich.
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MUSHROOM SPAWN.

- Cochran Mushroom & Spawn Co., 911 Chemical Bldg., St. Louis, Mo.
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NARCISSI.

- Warnaar & Co., Sassenhelm, Holland.
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NICO-FUME.

- Ky Tobacco Product Co., Louisville, Ky.

NURSERY STOCK.

- John Waferer & Sons, Ltd., American Nursery, Bagshot, England.
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- Bay State Nurseries, N. Abington, Mass.
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ORCHID PLANTS.

- Lager & Hurrell, Summit, N. J.
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- Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists
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- Julius Roehrs Co., Rutherford, N. J.
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- Carrillo & Baldwin, Secaucus, N. J.
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- A. Held, 11-19 William St., New York.
Orchids for Spring Delivery.
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PALMS.

- A. Leuthy & Co., Roslindale, Mass.
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- John Scott, Flatbush, Brooklyn, N. Y.
Henry A. Dreer, Philadelphia.
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- Nanz & Neuner, Louisville, Ky.
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PANSY SEED.

- H. F. Michell Co., 1018 Market St., Phila.
Pansy and Cyclamen Seed.

PATENTS.

- Siggers & Siggers, Washington, D. C.
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PEONIES.

- Gilbert H. Wild, Sarcoxie, Mo.
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- Warnaar & Co., Sassenheim, Holland.
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- Edward Swayne, West Chester, Pa.
For page see List of Advertisers.
- George Hollis, So. Weymouth, Mass.
For page see List of Advertisers.
- Fine collection of Best Peonies. Complete Peony and Phlox Manuals, 25 cents each. C. S. Harrison's Select Nursery, York, Nebr.

POINSETTIAS.

- S. N. Pentecost, Cleveland, O.

POT HANGERS.

- Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

- Baudisch & Co., Union Hill, N. J.
For page see List of Advertisers.
- Primula Oboe, Grandiflora, 4 in. pots. \$6 per 100. Cash, please. A. Relyea & Son, Poughkeepsie, N. Y.

PUTTY.

- Benj. Hammond, Fishkill on Hudson, N. Y.
Twemlow's Old English Glazing Putty.
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RHODODENDRONS.

- John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES.

- M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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- E. H. Pye, Upper Nyack, N. Y.
For page see List of Advertisers.
- Henry A. Dreer, Philadelphia.
Baby Rambler.
For page see List of Advertisers.
- American Bantles, 2-in., \$55.00; 3-in., \$80.00 1000. Cash. J. Henry Bartram, Lansdowne, Pa.
- Roses. Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1/2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.
- The beautiful new pink rose, MISS KATE MOLLON, is the queen of all pink roses. It's a winner and you should grow it. Price \$30.00 100; 500, \$125.00; 1000, \$200.00; 5000 and upwards, \$175.00 per 1000. Minneapolis Floral Co., Minneapolis, Minn.

SEEDS.

- T. J. Grey & Co., 32 So. Market St. Boston, Mass.
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- Joseph Brock & Sons,
51 and 52 N. Market St., Boston, Mass.
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SEEDS—Continued.

- W. Atlee Burpee & Co., Philadelphia.
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- J. M. Thorburn & Co.,
33 Barclay St., New York.
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- H. F. Michell Co., 1018 Market St., Philadelphia, Pa.
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- R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
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- A. T. Boddington, 342 W. 14th St., N. Y.
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- James Vick's Sons, Rochester, N. Y.
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- W. W. Rawson & Co., 5 Union St., Boston
Vegetable Seeds for Forcing.
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- G. C. Watson, Dobson Bldg., Phila.
Grass Seeds.
For page see List of Advertisers.
- Conrad Appel, Darmstadt, Germany, Esab. 1789. High Grade Grass, Clover, and Tree Seeds.

SHEEP MANURE.

- Pulverized Manure Co.,
31 Union Stock Yards, Chicago.

SHEET MOSS.

- E. A. Beaven, Evergreen, Ala.
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SIEVES AND SCREENS.

- Hub Wire Works, 13 Devonshire St., Boston

SMILAX.

- J. C. Schmidt Co., Bristol, Pa.
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- E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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SPHAGNUM MOSS.

- Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.
- Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash H. R. Akers, Clatsworth, N. J.

SPIRAEA.

- Warnaar & Co., Sassenheim, Holland.
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STEAM TRAP.

- E. Hippard, Youngstown, O.

STENATHIUM ROBUSTUM.

- H. P. Kelsey, Salem, Mass.

STRAW MATS.

- Wm. Elliott & Sons, 201 Fulton St., New York.
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TOMATO SEEDS.

- Wm. Sim. Cliftondale, Mass.
Cupid Tomato.
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VEGETABLE PLANTS.

- Plainfield Nursery, Plainfield, Ind.
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VENTILATING APPARATUS.

- Lord & Burnham Co.,
1133 Broadway, New York.
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- Pierson U-Bar Co., 1 Madison Sq., N. Y.
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- Hitchings & Co., 1170 Broadway, N. Y.
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- John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
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- Weathered Co., 46 and 48 Marion St., N. Y.
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- Foley Mfg. Co., 471 W. 22nd St., Chicago.
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- The Chicago Lifter,
J. C. Moninger Co., 421 Hawthorne Ave., Chicago.

VIOLETS.

- H. R. Carlton, Willoughby, O.
Violet, Gov. Herlick.
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- J. C. Schmidt Co., Bristol, Pa.
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VIOLETS—Continued.

- Charles H. Green, Spencer, Mass.
Princess of Wales.
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- Princess Violets, strong, field grown plants, \$50.00 per 1000, cash. George W. Fullick, Cohasset, Mass.
- Gov. Herlick Violet, No. 1 shape, 2 1/2 in. pots, ready to bench, \$2.00 per doz., \$10.00 per 100, \$80.00 per 1000. W. A. Calhoun, 3226 Euclid Ave., East Cleveland, Ohio.

WIREWORK.

- Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.
- Wirework. Write for our catalogue. Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.

Boston.

- N. F. McCarthy & Co., 84 Hawley St., Boston.
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- George A. Sutherland Co., 34 Hawley St., Boston.
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- Welch Bros., 223 Devonshire St., Boston.
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Buffalo.

- Wm. F. Kasting, 383-37 Elliott St., Buffalo, N. Y.
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Chicago.

- J. A. Budlong, 37 Randolph St., Chicago.
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- Chas. W. McKellar, 51 Wabash Av., Chicago.
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- Peter Reinberg, 51 Wabash Av., Chicago.
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Detroit.

- Michigan Cut Flower Exchange, 38 & 40 Miami Av., Wm. Dilger, mgr.
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New York.

- J. K. Allen, 106 W. 28th St., New York.
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- Wm. Stuart Allen Co., 53 W. 28th St., New York.
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- J. S. Fenrich, 110 W. 28th St., New York.
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- Ford Bros., 48 West 28th St., New York.
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- H. E. Froment, 57 W. 28th St., New York.
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- Alex. J. Guttman, 43 West 28th St.
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- E. C. Horan, 55 West 28th St., New York.
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- Phillip F. Kessler, 55 W. 26th St., New York.
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- Julius Lang, 53 West 30th St., New York.
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- A. H. Langjahr, 55 W. 28th St., New York.
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- James McManus, 42 W. 28th St., New York.
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- Chas. Millang, 50 West 29th St., New York.
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- Frank Millang, 55-57 W. 26th St., New York.
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- A. Moltz, 55-57 W. 26th St., New York.
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- John I. Raynor, 49 W. 28th St., New York.
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- W. F. Sheridan, 39 W. 28th St., New York.
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- Trendly & Schenck, 44 W. 28th St., New York.
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- Hicks & Crawbuck, Inc., 78 and 78 Court St., Brooklyn, N. Y.
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- John Young, 51 W. 28th St., New York.
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Philadelphia.

- W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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- Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
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PLANT HERBACEOUS PERENNIALS NOW

PLANT BAY
FIELD GROWN STOCK

We grow about 1000 species of plants and make a specialty of fine plants for the garden and border planting.

SHADE TREES, EVERGREENS, SHRUBS, ROSES

Over One Hundred Acres of Land in our own Stock. Visit Our Greenhouses.

THE BAY STATE NURSERIES

Windsor H. Wyman, Prop.
600 Adams Street

North Abington, Mass.

WHOLESALE FLORISTS—Continued
Philadelphia.

S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.

Edward Reid, 1526 Ranstead St., Philadelphia, Pa.

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Pittsburg.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.

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Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.

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New Offers in This Issue.

ANNOUNCEMENT OF REMOVAL.

Welch Bros., 226 Devonshire St., Boston.
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ASPARAGUS CRAWSHAWII.

James Crawshaw, 403 Plainfield St., Providence, R. I.

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CYCLAMEN SEED.

H. F. Michell Co., Philadelphia.
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ELECTRIC CIRCULATOR.

Holly-Castle Co., 170 Summer St., Boston.
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FORCING BULBS.

H. E. Fiske Co., 12 & 13 Faneuil Hall Sq., Boston.

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FORCING BULBS, SEEDS, ETC.

Rickards Bros., 37 East 19th St., New York.
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GALAX LEAVES.

C. W. Caldwell, Mgr., Galax, Va.
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GERANIUMS.

A. M. Herr, Lancaster, Pa.
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HERBACEOUS PLANTS.

Eastern Nurseries, Jamaica Plain, Mass.
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NICOTINE APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.
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PEONIES.

Chicago Carnation Co., Joliet, Ill.
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SURPLUS CARNATION STOCK.

J. B. Heiss, 112 S. Main St., Dayton, O.
For page see List of Advertisers.

We Need Room

We offer good plants at reasonable prices.

DIGITALIS gloxiniaeflora... 60c. per 100

VINCA, mixed, (rose white with red eye, pure white) 2 1/2 in. pots \$2.00 per 100

PRITULA obs. gr. fl., mixed, 2 1/2 in. \$2.50 per 100

BAUDISCH & CO.
Union Hill, New Jersey

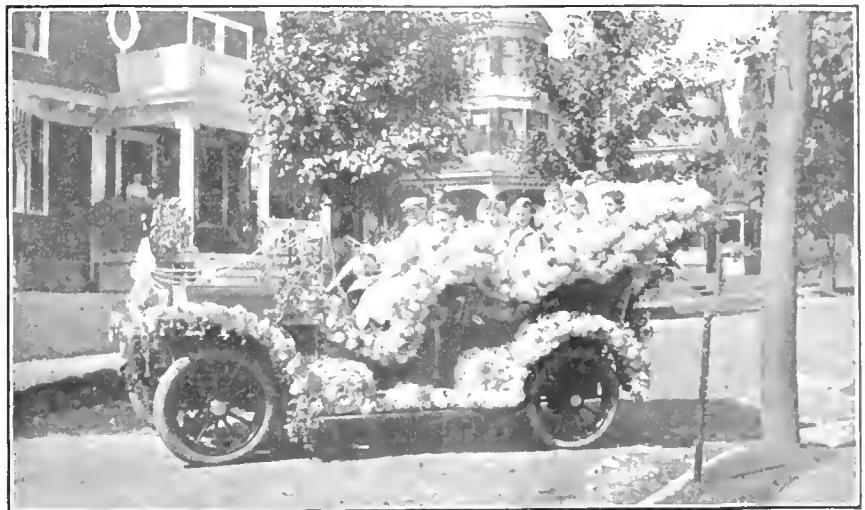
KOSTER'S BLUE SPRUCE

Perfect specimens, 5 to 9 feet high, transplanted; write for prices

J. H. TROY, New Rochelle, N. Y.

COMPLETE STOCK OF
Fine, Strong Herbaceous Plants
ORDER NOW
EASTERN NURSERIES M. M. DAWSON, Manager
Jamaica, Plain, Mass.

A DECORATED AUTO.



Floral carnivals, so-called, are rapidly increasing in number and popularity and nobody should take a greater interest in their success than the local florist. Coming as they do at a season of the year when out-door bloom is abundant and brilliant the business they create is of a profitable character. Our illustration shows an automobile decorated by Joseph Fuller for the Board of Trade Carnival at Leominster, Mass., on September 3, which was the winner of first prize. The method of attaching the flowers is thus described by Mr. Fuller.

"I cut some rubber cloth the width of the fenders and other places where the floral work might injure the varnish. I then took some wire netting 18 inches wide on which I placed sphagnum moss 1 1/2 inches thick and 5 inches wide, folding the other 9 inches of mesh over, and attaching same firmly to the parts to be decorated. The flowers, when inserted were there to stay and although the auto. was driven thirty miles at full speed not one flower was displaced. The material used was Hydrangea paniculata grandiflora, Clematis paniculata, Asparagus Sprengeri, A. plumosa, three doves, and two barrels of moss. Most of the flowers were inserted on long stems, pointed, and they still looked well twenty-four hours afterward."

Marens Ellis, proprietor of the Ellis Bros. Greenhouses, Keene, N. H., has sold a half interest in the business to Frank Chapman.

WANTS, FOR SALE, ETC.
Advertisements in this column one cent a word. Initials count as words. Cash with order.

EXPERIENCED LANDSCAPE PLANTER AND ENGINEER

desires a position about Sept. 25, competent to take full charge of job for landscape architect or private proprietor. Address E. L. R. HORTICULTURE

SITUATION WANTED.

Young married man wishes position as gardener on private estate. Up to date in all branches. Well recommended. Address Bee, care HORTICULTURE 11 Hamilton Place, Boston.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—We can with great confidence recommend to any lady or gentleman requiring the services of a skilled all round gardener and orchid grower. He can furnish best of references. Carrillo & Baldwin, orchid growers and importers, Secaucus, N. J.

SITUATION WANTED—As private gardener on place where there is a range of greenhouses. Best of references. Over 7 years in last place. Expert rose grower. Married. Address J. J., care HORTICULTURE

SITUATION WANTED—Private place offered as head gardener. Married, two years good reference. A. N., care R. J. Fargnhar Co., Boston.

WANTED—Medium sized second hand hot water boiler. H. W. Vose, Hyde Park, Mass.

WANTED—No. 16 good second hand hot water boiler. T. N. Fails, Foxboro, Mass.

IF YOU WANT TO SAVE TROUBLE AND COAL

DON'T DELAY

Now is the time to write to us, not six weeks from now. We have just completed large outfits of boilers, piping and circulators for E. V. R. Thayer, So. Lancaster, Mass., W. W. Edgar, Waverley, Mass., and Fred Parker, Bedford, Mass. Three or four other large concerns have duplicated previous orders for Circulators. It is wasteful extravagance to try to run a Hot Water Heating System without the

HOLLY-CASTLE CIRCULATOR

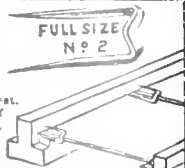
Drop us a line and we will demonstrate the above facts to your satisfaction. **DO IT NOW.**

HOLLY-CASTLE CO., 170 Summer St., Boston.

POT MAKERS FOR 140 YEARS
A. H. HEWS & CO. INC. CAMBRIDGE, MASS.
 FLORIST WARE OF EVERY KIND

PATENTS
 Trademarks and Copyrights
 Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. **SPECIALTY:** "Working on the Failures of Others."
SIGGERS & SIGGERS
 Box 9, National Union Building
 Washington, D. C.

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.



Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

STANDARD PLATE GLASS CO.
 Manufacturers, Importers and Jobbers
 AMERICAN AND FRENCH GREENHOUSE GLASS
 26-30 Sudbury Street
 61-63 Portland Street
BOSTON, MASS.

GREENHOUSES BUILDING AND PROJECTED.
 Athol, Mass.—G. W. Sutherland, violet house.
 Streator, Ill.—George A. & G. G. Whitcomb, eight houses, 15x390.

- LIST OF PATENTS**
 Issued September 18, 1906.
 \$31,675. Device for Nourishing and Strengthening the Growth of Trees. Anna Osborne, Santa Ana, Cal.
 \$31,706. Plant Shield. Napoleon La Fayette Clarke, Balm, Fla.


H. M. Totman, of Randolph, Vt., has just completed a new house for carnations, which gives him a total of 13,500 square feet of glass. His plant is being equipped with a Kroeschell heater.

CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
 ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices
The A. T. STEARNS LUMBER CO.
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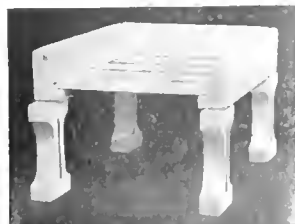
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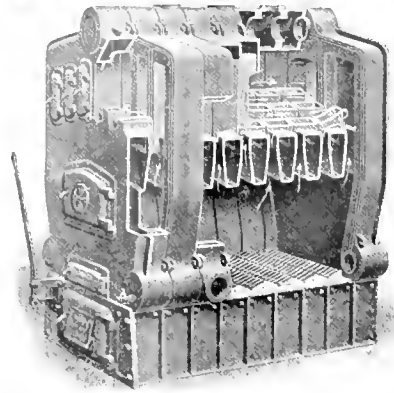


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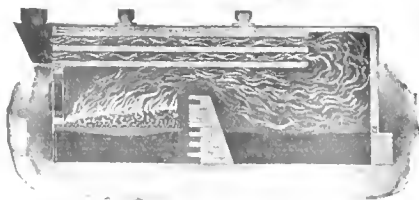
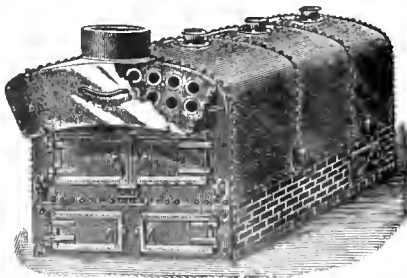
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OCTOBER 13, 1906

No. 15



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Plant Tissues

PART II.

In our last article we gave a brief classification of plant tissues. We will now speak in detail of formative plant tissues and discuss how a tree grows in height and diameter.

The end of a growing shoot may be divided into three regions. First, the extreme tip occupied by a leaf or flower bud in which new parts are being developed. This is the formative region. Second, the elongating region just back of the formative region. And third, the maturing region, a region of differentiation in which the tissues cease to grow in size and begin to assume the peculiar form and texture necessary for the kind of work which they are to do.

Plants protect their tender growing points from winter injury by the formation of winter buds. A winter bud is a covered, resting growing point. When spring comes the bud opens and the protective bud scales are shed leaving a scar which marks the end of the last season's growth. Sometimes these bud scars are visible for several years back. The twig continues growing forward at the tip, each year adding much if the season is favorable or little if conditions are adverse. But the twigs of last year never become any longer nor do the limbs of a tree grow further apart or higher from the ground. All growth in length is limited to the region of elongation just back of the growing point.

The terminal cap of formative tissue at the growing point produces all the various stem elements of the season's twig except those resulting from the later growth of the fibrovascular bundles. A cross-section of such a twig made near the close of the growing season will show the following structures. First, the continuous ring of epidermal cells on the outside. Long before this the outer walls of the epidermis have become greatly thickened and heavily cutinized, i. e., infiltrated with cutin, a waxy product, thus restricting the passage of moisture to the regular channels, the breathing pores or stomates. A superabundance of cutin produces the bloom on grapes, the glaucous appearance of plant stems and the wax gathered from the berries of *Myrica cerifera*. Second, a smaller concentric ring of conductive or fibrovascular bundles and, thirdly, large, thin walled, fundamental tissue in which the conducting bundles are embedded forming the pith in the centre of the twig, the cortex which separates the bundles from the epidermis and the pith rays which run between the bundles and connect the cortex with the pith.

Each fibrovascular bundle is composed of xylem, phloem, cambium and strengthening tissue. The xylem is the woody part of the bundle and lies next the pith. The phloem is the bast part of the bundle and lies next the cortex. The cambium is the active formative part of the bundle and lies between the xylem and the phloem. The strengthening tissue has developed in two areas, one outside the xylem next the pith and the other

inside the phloem next the cortex. The strengthening tissue is made of long, thin walled cells.

The cambium is made of large cells pointed to one end and blunt wood cells. They are composed of an outer thin walled cortex and an inner end from which the cross walls have each a square opening. Thus open channels are formed which extend long distances through the stem. Their side walls are spiral or annular thickenings to keep the cells from collapsing and are also provided with numerous circular thin places called pits to facilitate the passage of liquids. The tracheids are cells not ducts. They are smaller than the ducts or vessels and have sloping cross walls which give them larger and stronger end contact. Those formed near the ducts are thin walled with similar thickenings and pits in their sides. The wood cells are small with square cross walls and many pits.

The cambium cells are very small with thin walls but having ceased active growth are seen to better advantage earlier in the season. The phloem is marked by the presence of sieve tubes which are long, thin walled cells with perforations in their side and end walls associated with the sieve tubes are smaller companion cells whose function is not known. Having seen what the various elements of a one-year-old twig are like we are now ready to trace their development and to correlate form with function.

B. M. Curtis.

Park Dept., Boston, Mass.

(Continued in issue of October 27.)

Clematis heracleifolia stans

I had the pleasure this summer of examining specimens of the *Clematis heracleifolia stans* grown by Mr. G. F. Dwyer of Lynn, and illustrated in your issue of September 29. I compared these specimens carefully with our clematis and find them considerably alike. Our clematis referred to is the one described last year in HORTICULTURE under the name of *Clematis davidiana*. In that brief article it was intimated that this name was doubtful, although it was the one under which the variety was bought several years ago from a leading Boston nursery. Our clematis is different from the one grown by Mr. Dwyer, although these differences are in points of minor importance. The flower stamens are longer and more slender in our variety, but the main difference is in the greater height to which our clematis grows. We have an old plant trained up against a stable which reaches a height of twelve to fifteen feet, most of which wood lives over winter. This is very unusual for clematis stans, and marks our variety something abnormal. It seems to me that ours ought to have a commercial nursery name. It is certainly worthy of separate propagation and distribution.

Yours truly,

Wauget

HORTICULTURE

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WM. J. STEWART, Editor and Manager

**Automobiling
affects flower
buying**

Has anyone given any thought to the effect of the present automobile craze on the flower business generally? We hear much complaint from those dealers who would be most liable to

be affected by the results of this diversion as to the utter absence of any movement towards the resumption of regular flower buying. It is altogether probable that so long as the fine fall weather continues this condition will prevail. It is fortunate in a way, that the available supply of flowers is smaller than in any previous season at a corresponding date, otherwise the stagnation would be much more uncomfortable than it is.

**Nurserymen
building wisely
for the future**

Equally gratifying with the evidences of unprecedented prosperity in the nursery business are the indications that our nurserymen are making provisions for the future

which will ensure a supply of reliable ornamental trees and shrubs for all demands, a condition which has not heretofore existed. Another hopeful sign is the disposition to inquire into and test the hardiness and comparative value of varieties which, especially in the case of certain conifers, have been multiplied beyond any existing need. The course of experimentation and development which the leading dealers in this material are following is on wise lines following the example of the Arnold Arboretum at Boston, the institution which, more than any other influence, has furnished the incentive for the gardening revival now in progress.

**Our frontispiece
and its lesson**

Most retail florists in large cities realize the advantages of having their places of business neat, and attractively furnished; in fact they are well aware that this is absolutely essential to business success and that good customers will not continue their patronage were the reverse of these conditions exists. Many retail dealers and florists in small cities and country towns would do well to emulate the example of their brethren in this respect,

making their places of business attractive not only for positive purchasers but for visitors as well, treating the latter also with equal consideration. Many growers who combine growing with "making up" and the selling of cut flowers locally, have no offices or other places of accommodation suitable for the reception of refined patrons, and others who have such facilities permit them to become lounging places, untidy and otherwise obnoxious to that class of buyers whose patronage is most to be desired. Our frontispiece, which shows the interior arrangement of a typical New York flower store of the best class—that of Alexander McConnell on Fifth avenue, should convey some useful ideas to those of our readers who have not hitherto given due attention to this most important feature of modern retail floral trade.

**The "fall opening"
as a business
starter**

For the florist with a store or the one doing retail business through a show-room and office attached to the greenhouses the opening of the fall season presents opportunities which if taken due advantage of will do much to bring to his establishment that popularity and distinction which are so essential to full business success. He loses the best part of his influence and reputation in decorative work whose premises present no evidence of his abilities in that line or suggestion that he is possessed of that taste which is essential thereto. The old saying that "blacksmiths' horses and shoemakers' wives go barefoot" has an analogy in the surroundings of many a floral establishment where the most noticeable characteristic of interior and exterior is the total absence of any alluring floral demonstration. The prosperous dry goods merchants do not nowadays rely upon the fact that they have the material all piled up on their counters ready for buyers but they spend lavishly on their window displays, using models and all the accessories to show the goods at their best as in actual use. The florist who follows similar tactics is the winner every time. A well-advertised fall opening is an excellent starter for the season's business. Show what you can do in plant grouping, in winter box and porch greenery, in flower arrangement for wedding or birthdays, anything and everything for cheerful home or festive occasion.

No man who grows stock for sale can call himself "progressive" if he omits to advertise it. If you grow for retail exclusively, advertise in your local papers. If you grow for wholesale trade, or if you have a surplus above your retail needs, get in line with those who are to be found in HORTICULTURE's advertising columns. You will find it distinctly to your advantage and will have no trouble to back up the claim that you are "progressive." HORTICULTURE is essentially the medium of the "progressive" horticulturist, and this is one reason why it is the best advertising medium in its class.

CALIFORNIA NOTES.

One hundred and fifty tons California apples were sent recently to Australia for Sydney. American apples, by reason of the vim with which the market is pushed there, have a large sale, while no Canadian apples are sent to Australia.

When in San Francisco, the other day, W. A. Beard, secretary of the Sacramento Valley Development Association, said: "One of the most destructive blights that ever affected fruit has the California pear crop in its grip. It is attacking all the trees and unless speedily stopped will destroy the entire crop and the trees, and will cause a loss of over \$2,000,000 to the revenue of the state." The blight is caused by bacteria. The germ is usually carried by bees, which suck the honey and leave the germ which they have got from a diseased bud. The blight spreads very rapidly, and a whole orchard may become inoculated from a single tree in short order, and large orchards of dead pear trees are already standing throughout the state.

A dispatch from the State Fair at Sacramento says that Alameda county was awarded first prize and a gold medal for the excellence of its display.

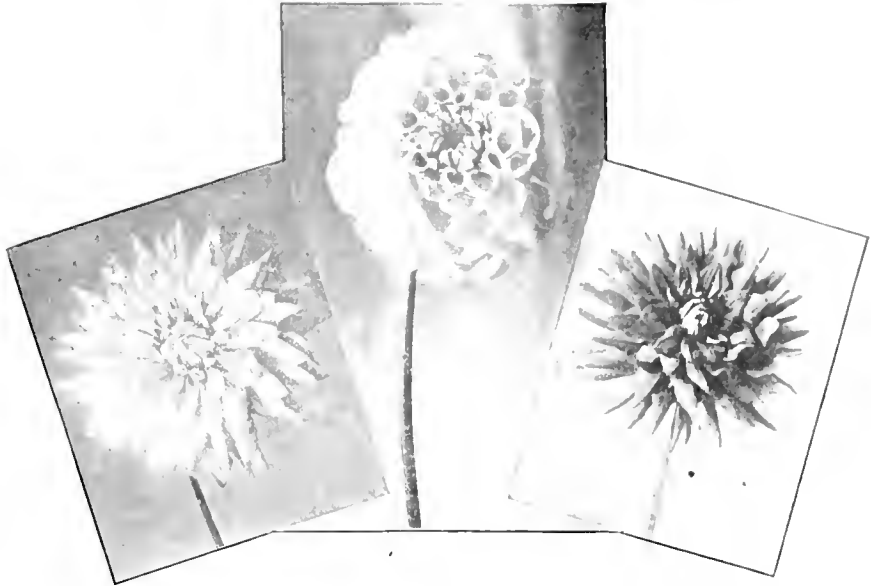
The first cranberries of the season from the great productive marshes of the Coos Bay country in Oregon have appeared in the San Francisco market. A sample box containing one bushel came in and was sold for \$3. Four cars of the Cape Cod article are now available. The receivers are selling at \$9@9.50 per barrel and quite a sale has been effected.

The event of the season in the Horticultural Department of the University of California is the appearance of the new work by Professor Hilgard on soils. The book is devoted exclusively to soils. It is divided into four parts, namely, the origin and formation of soils, physics of soils, chemistry of soils, and soils and vegetation. Although a scientific work, the writer has succeeded in making it adaptable for the masses, as he is possessed of a breezy style of writing that invariably proves interesting reading. It should prove a most valuable volume to the world of science, coming as it does from the pen of a man who has made the subject a life-long study.

The departure of E. Gill to visit the trade in Oregon, Washington and British Columbia, reminds me to say that he is the dean of Horticulturists in California, and recently returned from taking notes in Holland on bulb culture. Forty years ago he commenced business in Oakland, Cal., with an 8-acre nursery, and has been so identified as workman ever since, though his nursery now, located at Berkeley, Cal., is more than a hundred acres in extent, and its productiveness has advanced Mr. Gill to the ranks of California's very wealthy men.

A postal card from Benjamin Hammond of Fishkill, N. Y., announces his arrival at Port Arthur on October 5.

THREE GOOD DALLIAS.



MRS. CHAS. TURNER

IDA RICHARDSON

WALTER MORSE

We are under obligations to C. S. Finacom, dahlia specialist, Dracut, Mass., for the photographs of these new dahlias. Ida Richardson (show) is a tall-growing magenta. Walter

Morse (cactus) is orange salmon with lemon centre, dwarf and bushy habit. Mrs. Charles Turner (decorative) is a fine yellow of dwarf growth. The two first named are seedlings raised by Mr. Finacom.

PHILADELPHIA NOTES.

Chas. Sim, of Rosemont, Pa., has just returned from his European trip and is full of interesting news of his journey. He visited the principal nurseries in England, Scotland and Ireland. He is especially enthusiastic in regard to the new roses at Newtownards, which he thinks have a great future.

William J. Sherry, of the Johnson Seed Company, is well pleased with his sojourn at the county fairs in this locality. He thinks the prospects for the coming season's business are better than ever and is prepared for a great season.

Edward A. Stroud takes his hat off to the Dailledonze Bros., whom he visited last week. Their stock is in the pink of condition and wonderfully forward for the season. Praise from Sir Rupert Stanley is praise indeed.

The Michell store is as bright as a new dollar at present with seasonable stock in bulbs and sundries. The window display is particularly seasonable and tasteful—the work of that master decorator, Philip Freund. The new yellow Chinese narcissus is made the chief feature.

The firm name and style of J. R. Clarke, gardeners and florists, at W. Roxbury, Mass., will be J. R. Clarke & Co., in the near future. Mr. Clarke will continue as the sole manager of the business, of which landscape gardening is an important feature. The glass area will be used as heretofore for the propagation and growth of herbaceous stuff, and will be kept up to date in range of variety and quality of stock. The present stock comprises some two hundred varieties of this class of plants and is in fine condition for the wholesale fall planting trade.

PERSONAL.

James Wiseman, gardener to D. M. Clemson of Pittsburg, Pa., has joined the benedicts.

Miss Adele Taylor, daughter of John H. Taylor of Bayside, N. Y., is to be married on November 8.

Wm. Griffin, formerly of Lenox, Mass., and recently employed on landscape work by Alex. McConnell, has accepted the position of superintendent of George Gould's estate, Georgian Court, at Lakewood, N. J.

Mr. J. B. Kidd, with Wm. Elliott & Sons, New York, has received tidings of the death of his daughter Belle, in California. Miss Kidd, who was 27 years of age, had never recovered from the effects of the exposure and hardship at the time of the San Francisco disaster, and her death is traced to that cause.

NEW LONDON CO. HORTICULTURAL SOCIETY.

The second annual dahlia show of the New London County Horticultural Society was held on September 22 at Norwich, Conn. Among the largest exhibitors were H. T. Burt of Taunton, Mass., O. P. Chapman, Jr., of Westerly, R. I., E. S. Manuel of Newport, R. I., Mrs. F. L. Osgood, Mrs. W. C. Lanman. The F. E. Conine Nursery Co., of Stratford, Conn., had a fine exhibit of hardy hybrid tea roses. The display of foliage plants by the Geduldig estate and A. W. Pearson's collection of dahlias attracted much attention. The judges were R. J. Irwin of New York, A. J. Anderson of Eastern Point and Oswald Lange of New London.

NEWS OF THE CLUBS AND SOCIETIES

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting and floral display of this society took place on October 5 with dahlias as the principal attraction. Prizes had been offered, open to all competitors for the best 24 in six varieties, the best 12 in three varieties and the best vase of 25 in variety, and flowers were sent in from a wide territory. While the season has not been favorable, the growth of the dahlia in public favor has increased as was in evidence in exhibits and in the number of visitors, principally ladies, during the evening. The varieties in favor were the cactus and new single strains. Walter M. Gray of Maplewood was the winner of the first prize for the best 12; William Runkle, D. Kindsgrab, gardener, first for the best 24, A. B. Jenkins, George von Qualen, gardener, second; A. C. Van Gaasbeck, William Burnett, gardener, for the best vase of 25, Walter Gray, second. For exhibition only, among the most notable were 25 vases from J. C. Williams of Montclair containing all the new varieties and from Herbert Bradley, Robt. Cruthers, gardener, 52 varieties, all bearing marks of superior cultivation; vases from A. C. Gillespie, George Oakley, gardener; Mrs. Stewart Hartshorne, A. T. Caparn, gardener; Sidney & Austin Colgate, William Read, gardener; Col. H. A. Potter, William Phillips, gardener; Chas. Hathaway, Max Schneider, gardener, the above receiving the society's certificate, and a vase of magnificent Grand Duke Alexis and Cuban Giant with long stems, entered not for competition, by Peter Duff, gardener for John Crosby Brown.

Fruits were entered by J. C. Williams; vegetables by Stewart Hartshorne, Mrs. Wm. Pierson; orchids from Lager & Hurrell, Joseph A. Manda and William Barr; and decorative plants from John Crosby Brown, William Barr, and William Runkle. The extensive display augurs well for the forthcoming fall show in the hall of the Woman's Club of the Oranges to be held November 5 and 6. Two new members were elected and provisions made for the fall show.

PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The regular meeting of the club on October 2d announced for its subject Surprise. When the members had assembled they seemed to think the principal surprise was the absence of Mr. Falconer, superintendent of Allegheny Cemetery, the gentleman who had suggested the subject.

However our president had staged a choice lot of crotons, Ficus pandurata, rubber plants, dracaenas, aralias and variegated privet in pots from Schenley Park greenhouses. Mr. Burki talked on stem rot in carnations, and Mr. W. J. Smith on window decoration and dahlias.

Mr. Burki thinks that success in growing carnations comes from keeping them growing right above the cutting bench without any check. This is much more important than the time of propagation whether early or late. He showed some carnations

taken from the field affected with stem rot, which he thinks may be induced by getting a check on the cutting bench, by planting too deep in the field, or the ground being too wet. He does not think the disease is influenced by the soil unless by very old soil in the greenhouse.

Mr. W. J. Smith showed dahlias in variety from his six-acre field in Ohio, taking up the different kinds and commenting on them. He also spoke on window decoration, and the good and bad taste thereof. Doubtless it was this subject that led a member of the club to suggest that the club recognize the fine taste and artistic spirit displayed in window decoration by one of the largest department stores in Pittsburgh on its recent anniversary. All merchandise was removed from the first floor windows, and on a carpet of green velvet and background of same, ferns and red dahlias were arranged. The effect was extremely rich and beautiful. The secretary was instructed to send a letter to the firm expressing the appreciation of the club.

The subject for the November meeting is *Chrysanthemums*.

COLUMBUS FLORISTS' CLUB.

Last Tuesday evening our club held its first meeting of the month, President Stephens was in the chair, and our secretary being ill, M. B. Faxon attended to the records. There was a goodly number present.

Twenty dollars was appropriated for the purchase of Holland bulbs to be distributed to the various schools. Mr. Curry has this matter in charge; and will also award special sweepstake prizes of \$5.00 and \$3.00 for the best school gardens. In regard to our new quarters for the club meetings; the committee consisting of Messrs. McKellar, Stephens, and Faxon, reported in favor of some rooms in the Brent building, and we hope to be able to hold our next meeting there. While there will be no public exhibition of chrysanthemums this year, it was decided to have a display at the November meeting; Messrs. Albert M. Hills, John H. Williams, and Edward Helfrich, will arrange for the show. An appropriation was made for prizes, and every member is urged to assist. The discussion begun at the last meeting, on ways and means of economic financial management, was continued; some very pertinent remarks were made by the president, P. F. Heimer, and M. B. Faxon on this subject. Our club is in a very prosperous condition, but like all growing organizations we require considerable money to carry along the many plans we have made. After a very enjoyable evening, the meeting at a late hour adjourned to Tuesday evening, October 16; when the nominations of officers for the ensuing year will be in order. The new officers take their chairs the first meeting in November.

At the meeting of the New Haven County Horticultural Society (Conn.) on October 2, John H. Slocum exhibited a new seedling dahlia and a cosmos with flowers of extraordinary size. A certificate of merit was awarded the cosmos.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The large and varied exhibit of fruit and flowers at Horticultural Hall on Wednesday and Thursday was a surprise even to those most directly interested. The fruit filled the centre of the main hall as well as the smaller room; the vegetables were attractively displayed on the sides and at the end of the large room. In the fruit classes alone there were over one hundred exhibitors, over fifty varieties of apples, about the same number of pears and grapes being shown. Gravenstein, Rhode Island Greening, Maiden's Blush, McIntosh and Baldwin were prominent in the apple class. A notable feature was the display by the State Board of Agriculture of North Carolina, which included some of the finest apples ever shown here. Although they had been collected from all sections of the State, and had travelled over 1500 miles, they were in perfect condition.

The experiment stations of Maine, Rhode Island and Massachusetts were represented by excellent displays. An exhibit from Massachusetts Agricultural College of apples and pears grown on dwarf trees was particularly fine, showing what can be attained in this direction.

Among the larger exhibitors were Edw. B. Wilder, pears; Jos. S. Chase, grapes; George V. Fletcher, apples, grapes, and an extensive exhibit of peaches; Dr. Kendall, pears, apples and grapes; Elliott Moore, apples.

The vegetable class comprised the most extensive exhibit ever made in the hall. There were seven very large collections entered for the big prize of \$100, a large number of entries for the second class, besides a quantity for each of the individual classes of special prizes. Every class was represented, and every prize was taken. The largest exhibitors were W. W. Rawson, Edward Parker and F. Heeremans. C. H. Metcalf showed a new celery, Golden Pascal.

ELBERON HORTICULTURAL SOCIETY.

The dahlia show held by this society on Monday evening, October 1, was a very successful affair. Some fine varieties of cactus, decorative and single dahlias were staged. Certificates of merit were awarded F. R. Pierson Co., Tarrytown, for an exhibit of new dahlias; G. H. Hale, superintendent for E. D. Adams, Seabright, and James Dowlen, superintendent for H. L. Terrell, Seabright, for collections of cactus dahlias. A diploma was given to A. Strohenger, superintendent for Mrs. Chatalog, Seabright, for vase of celosias. Among the members of the society the principal prize winners were J. Kennedy, for cactus and single dahlias, and outdoor roses; W. D. Robertson, vase of dahlias and outdoor flowers; E. O'Rourke, collection of dahlias and best single flowers; A. Bauer, dish of fruit; F. Dettlinger, bunch of violets; A. Greif, vegetables. A very fine exhibit of *Cattleya lablata* was staged by Peter Murray, superintendent for S. R. Guggenheim,

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NEW YORK FLORISTS' CLUB.

The October meeting of the New York Florists' Club was held last Monday evening. President Scott in the chair, Caterer Nugent at his station in the commissary department, and upwards of sixty members on the benches ready for any diversion or business that might come up. Routine matters were put through in due form. The needed incentive for interesting and spicy debate was given when the question of the proper classification of "stove" and "greenhouse" plants, recently brought before the S. A. F., was launched, and then there was no end of fun. The president vacated his seat to the vice-president and joined in the fray on the floor. The result of the scrimmage was the passing of a resolution to the effect "that the present designation of 'stove and greenhouse plants' be changed in all exhibits of the club to read 'greenhouse plants' and, further, that we suggest to all horticultural bodies the advisability of conforming to this action by this club." The next meeting will be a gala affair, with music and other prime attractions.

ST. LOUIS COMING TO THE FRONT.

The formation of a society to hold stated flower shows and endeavor to enlighten the public more generally in floriculture as well as to advance an interest in horticulture and sociability among its members, is now assured. For some months past there has been a desire for such an institution, but not until a certain number of florists met at the country home of Mr. C. C. Sanders and formed a temporary organization did the unexpected happen. On October 5, at the call of the temporary chairman, F. C. Weber, a meeting was held at the home of Otto G. Koenig, where a permanent organization was formed by the election of the following officers: Harry Young, president; Alex. Waldbart, vice-president; Fred C. Weber, treasurer; Otto G. Koenig, secretary; C. C. Sanders, Theo. Miller, F. H. Meinhardt, Geo. B. Windler, Emil Schray and John Koenig were enrolled as members. George Waldbart was unavoidably absent. Charles Cruicknell, an invited guest of Alex. Waldbart, contributed much interesting information regarding societies in other cities; discussion followed. At the next meeting by-laws and name for the society will be adopted.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next meeting of the club will be held at Horticultural Hall on Tuesday evening, October 16. J. B. Velie, of the Lord & Burnham Co., will speak on Greenhouse Construction. The geranium plants to be grown by assistant gardeners, for which special prizes were offered last spring, will be exhibited. Other interesting features are being arranged for.

W. N. CRAIG, Sec.

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11 NORTH PEARL ST., ALBANY, N. Y.

Seed Trade Topics

Growers of peas are beginning to send out preliminary estimates, and the shortages predicted in these columns as far back as July are more than verified. As early as the latter part of June it was apparent that there would be a heavy shortage, and especial attention was directed to the large podded varieties, such as Telephones, Gradus, Impd. Stratagem, Duke of Albany, Thomas Laxton, Sutton's Excelsior and Dwarf Telephones. In fact all of the large podded sorts, and they are in very short supply as expected, some estimated deliveries being as low as 25 per cent., while nearly all garden varieties will prove surprisingly low. There will be a loud outcry from the canners, as many of them contracted for only a portion of their requirements, and if only 50 to 60 per cent. of their contracts are delivered, they will have to buy on the open market a larger percentage than they expected and within the next 60 days there will be such a scramble for seed peas as will send prices soaring. Seventy-five per cent. of all the peas canned are from four varieties, while not above seven or eight are ever used from choice. It looks this year, however and if it would not be wholly a question of choice, and that many canners will have to take what they can get. The developments of the next few months will be very interesting.

The writer was recently asked by a prominent Canadian seedsman why such a small percentage of Swedes and Mangels are used in this country as compared with Canada. A plea of ignorance was entered, and this led to a discussion of the value of root crops as feed for stock and particularly milch cows. My Canadian friend said that if our farmers and stock raisers could be shown the advantage of root-feeding not alone for milch cows, but all breeds of cattle, horses, hogs, sheep, etc., he believed it would be adopted as universally as in Canada. Speaking of dairy products, he said Canada was in fifth place on the roll of merit while the great and glorious United States was nearly at the bottom. Just what our number was he could not say, but he attributed Canada's position very largely to the liberal feeding of roots. The value of root feeding in dairying is so universally acknowledged as to be scarcely debatable, and it is certainly a most surprising fact that American dairymen should be so indifferent to a matter of such importance to their industry. It can only be attributed to the general indolence so characteristic of many farmers. It is just a little too much trouble to raise roots, store and prepare them for feeding. While roots have a pre-eminent value for milch cows, they can scarcely be over-estimated for any kind of stock. Carrots are a valuable feed for horses, and one or two each day gives Dobbin a sleek smooth coat, and tones him up, keeping him in fine fettle. Could not the Department of Agriculture use some of the money appropriated for "free seeds" in an educational campaign to "show" the farmers, and actually demonstrate to them the value of roots for feeding stock? A few thousands of dollars ex-

pendent in such a cause each year, would be of almost inestimable value to the dairying and stock raising industries of our country, while to the seedsmen it would be an agreeable change from the free seed graft, by stimulating a demand for Swede and Mangel seeds. In proportion to the volumes of seed business done, Canada uses fifty pounds of Swedes and Man-

THE NEW THORBURN SEED WAREHOUSE.

The new Thorburn seed warehouse at 33 Barclay street, New York, which we illustrate on this page, is five stories high and has in addition to the basement a sub-cellar. It extends through to 38 Park place and is 160 feet deep, and has a frontage of 25 feet on both streets. This gives 28,000 square feet of floor space. There are over 1200 drawers and closets for vegetable seeds; about 150 bins for vegetable seeds in bulk, about 2000 flower seed drawers, over 250 receptacles for tree and shrub seeds alone and over 40 bins for grass seeds. The building is modern and up to date in every respect, neither trouble nor expense having been spared in making it probably the finest seed store in America.

J. M. Thorburn & Co. have been engaged in the seed business in New York City for a period of 104 years, and the path of the advancement of this noted firm has certainly been very marked. The establishment was founded by Grant Thorburn in 1802 at 20 Nassau street. "In 1814 the business was totally prostrated by the proprietor expending his whole capital and more in fruitless preparations and attempts to raise seeds, etc., which could not be imported during the war" (this notice appeared as an advertisement on back cover of G. Thorburn & Son's catalogue of 1827).

On back cover of 1822 catalogue appeared the following advertisement: "G. Thorburn & Son take the liberty of informing their friends and the public that they are constantly supplied at their seed warehouse, No. 20 Nassau street, New York, with a general assortment of Garden Seeds suitable for cultivation in the U. S. and West Indies: Grass seeds of every important and valuable kind, Hawthorn Quicks for Live Fences or Hedging, a great variety of flower seeds and roots, procured from various parts of the world; Spades, Shovels, Rakes, Hoes, Hand Ploughs, etc., etc. Bird Seed of every kind; English split and whole peas for boiling, American and Scotch Oatmeal, English Gritts, etc., etc.; a constant supply of Garden Seeds put up by the Society of Shakers at Lebanon, also their compressed Medicinal and Culinary Herbs!"

In 1816 Grant Thorburn recovered from the prostration of his business as recorded in 1814, and "with the help of \$500 advanced by a friend" he commenced anew, "having for nine years past stood the attacks of several powerful opponents, and among the last, though not the least, was the great Ruta Baga of Botley, the famous Wm. Cobbett, of political memory."

In 1826 G. T. & Son purchased the Friends' Meeting House in Liberty street; the house had been occupied by a Society of Friends (Quakers) "as a place of burial, school & Meeting House for upwards of 140 years."

The catalogues between 1827 and 1844 were destroyed by mice. In 1867 the firm began to specialize particularly grass seeds, and its catalogue of that year gave very comprehensive instructions for the formation of lawns from seed. The varieties of grasses listed as far back as '65 included about 35 varieties. Since then special attention has been given this



gels to one used in the United States, and the quantity of the dairy products of the two countries is in about the same ratio.

The writer would suggest to retail seedsmen that they give this matter more attention. Let them publish statistics and other information bearing on the subject, and many of our farmers will no doubt appreciate the facts, and an increased demand for these seeds will soon follow, for it is not conceivable that our farmers are less intelligent than their Canadian cousins.

In Seed Trade Topics of last week the following corrections should be made: For "entire seed crop" in second line, read "onion seed crop"; lines 28 and 29 should read, "they may operate to keep yellows from soaring to abnormally high figures"; in line 40 substitute average for "average."



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25 at 100 rate; 250 at 1000 rate
per 100 per 1000

SINGLE TULIPS

Artus, scarlet,	\$1.25	\$11.00
Chrysolora, yellow,	.85	7.50
Duchess de Parma, red edged yellow,	1.00	9.00
La Reine, white, selected stock,	1.00	8.00
Yellow Prince,	1.00	8.00
Pottebakker, scarlet,	1.60	15.00
Superfine, Mixed, single, early,	.80	7.00
" " double, early,	1.00	8.50

NARCISUS

Paper White Grandiflora (true " in. at 1000),	\$1.00	\$8.50
Giant Princeps, selected bulbs,	.80	7.00
Poeticus,	.50	4.00
Poeticus Ornatus, double nosed,	.65	5.50
Trumpet Major, single Van Sion,	1.00	8.50
Double Van Sion, selected, fine bulbs,	1.35	12.00

Send for our Complete Bulb Catalogue AT ONCE.—It will interest you.

JOHNSON SEED CO.

HERBERT W. JOHNSON
of the late firm of John-
son & Stokes, President

217 MARKET ST.,

PHILADELPHIA, PA.

subject and the grass seed end of its business is ever on the increase.

Among the notable introductions by this firm the following is only a partial list: In 1864, New White Peach Blow potato; in 1872, Thorburn's Late Rose potato; in 1878, Beauty of Hebron potato and Thorburn's First and Best peas; in 1881, White Elephant potato; in 1882, Thorburn's Extra Early Refugee bean and Market Gardener Private Stock lettuce; in 1886, The Thorburn potato; in 1887, Oemler's Triumph watermelon, in 1889, Pride of Newtown bean, Improved Stonehead Heavy Red Dutch cabbage, Large Late Flat Dutch cabbage and Rural New Yorker potato, No. 2; in 1890, Refugee Wax bean, Extra Early Flat Turnip beet, New Everbearing cucumber, Coldframe White Cabbage lettuce; in 1892, Thorburn Commercial Pickle cucumber and Long Keeper tomato; in 1893, Dwarf Lima bean (the first dwarf lima ever introduced), Lemon Blush tomato and Terra Cotta tomato; in 1894, Carman No. 1 potato; in 1895, Carman No. 3 potato; and in 1905, Noroton Beauty potato, the grandest of all potato introductions.

J. M. Thorburn & Co. was incorporated in 1895 with Mr. F. W. Bruggerhof as president, Mr. Bruggerhof having been connected with the business and associated in its earlier days with Mr. Jas. M. Thorburn, for over 50 years. Mr. B. is still actively engaged and is conversant with everything going on, himself superintending everything.

In the fall of '98 they were obliged to vacate the building occupied for upwards of 60 years at 15 John street, the property there having been condemned. They have since been located at 36 Cortlandt street, from which they have been compelled to move, owing to the condemnation of this building and many others in the same block for tunnel and railroad purposes.

**ONE HUNDRED AND SIXTY ACRES
OF SWEET PEAS.**

It was predicted that California would become one of the world's greatest seed growing centers, and there is no doubt about it. We do not have to travel far over the California field to be convinced of the same.

The writer paid a visit to one of John Bodger & Son's seed farms on

CYCLAMEN SEED

MICHELL'S GIANT STRAIN

	100 Seeds	1000 Seeds
GIANT WHITE.....	75c	\$6.00
GIANT PINK.....	75c	6.00
GIANT RED.....	75c	6.00
GIANT WHITE with RED EYE.....	75c	6.00
GIANT MIXED.....	60c	5.00

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Asparagus Plumosus Nanus

NEW CROP GREENHOUSE GROWN

100 Seeds.....	60c
500 ".....	\$2.35
1000 ".....	4.00

Our latest Fall Catalogue of Bulbs, Seeds and Seasonable Supplies now ready.

the 17th of June when the one hundred and sixty acres of the leading varieties of sweet peas were in full bloom and it was a sight never to be forgotten. One hundred and twenty varieties from the purest white to the darkest blue. To begin with there was the well known white, Mont Blanc, one of the earliest, and Dorothy Eckford and white and black seeded Sadie Burpee and several other white varieties.

In the creams or light yellows there were the fetching Coquette, a deep primrose shaded with lavender, and the stately Hon. Mrs. E. Kinyon, Modesty and Sensation made a splendid showing. America, which is considered about here to be very appropriately named by the resemblance to the stripes of the national emblem, is strikingly shown in streaks of a rich blood red on a ground of silver white. Aurora is another beauty in the striped and variegated list, its large blooms being flecked with bright orange and salmon on a creamy white ground. There were other variegated varieties, such as Senator, Juanita, Romona, Lottie Hutchins and Princess of Wales. There were also a splendid showing of blues, namely—Captain of the Blues, Navy Blue, Captivation, Fascination and Countess Cadogan. Among the lavenders were Lady Grisel Hamilton, Lady Nina Balfour, Admiration, New Countess and Princess Mary. Among the scarlet and red were King Edward VII., Mars, Prince Edward of York and Salopian. There was also a fair showing of Cupid in white and pink.

Unable to secure sufficient and suitable land for seed growing purposes John Bodger & Sons came down from Ventura County two years ago at which place they have been engaged in the seed growing business for the past fourteen years. They are also growing asters and petunias, giant California petunias and stocks and all the leading novelties, including vegetable

seed. They have the largest seed farms in Southern California, viz.: three hundred and thirty acres near Gardena, about twelve miles south of Los Angeles and two hundred at Alhambra.



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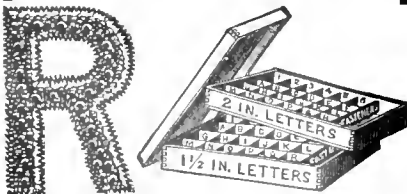
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	CHICAGO October 8	ST. LOUIS September 30	PHILA. October 8	BOSTON October 11
ROSES				
Am. Beauty, Fan. & Sp. ....	..... to 40.00	15.00 to 20.00	25.00 to 30.00	25.00 to 35.00
" Extra.....	20.00 to 30.00	10.00 to 12.50	18.00 to 20.00	15.00 to 20.00
" No. 1.....	12.50 to 15.00	6.00 to 8.00	12.00 to 15.00	8.00 to 12.00
" Lower grades.....	5.00 to 10.00	3.00 to 5.00	5.00 to 8.00	4.00 to 8.00
Bride & 'Maid—Fan. & Sp.....	5.00 to 6.00	3.00 to 4.00	5.00 to 6.00	4.00 to 8.00
" Ordinary.....	3.00 to 4.00	2.00 to 2.00	2.00 to 4.00	2.00 to 4.00
Golden Gate, Fancy.....	5.00 to 6.00	3.00 to 4.00	5.00 to 6.00	3.00 to 8.00
" Ordinary.....	3.00 to 4.00	2.00 to 2.00	2.00 to 4.00	1.00 to 4.00
Liberty, Fancy.....	5.00 to 6.00	3.00 to 5.00	6.00 to 8.00	3.00 to 8.00
" Ordinary.....	3.00 to 4.00	2.00 to 2.00	2.00 to 4.00	1.00 to 3.00
Richmond, Fancy.....	5.00 to 6.00	3.00 to 5.00	6.00 to 8.00	3.00 to 8.00
" Ordinary.....	3.00 to 4.00	2.00 to 2.00	2.00 to 4.00	1.00 to 3.00
Kaiser, Carnot, Chateauf, Fancy.....	5.00 to 6.00	5.00 to 6.00	6.00 to 8.00	3.00 to 8.00
" Ordinary.....	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00	1.00 to 3.00
CARNATIONS				
Fancy.....	2.00 to 3.00	1.00 to 1.50	2.00 to 2.50	1.50 to 3.00
Ordinary.....	1.00 to 1.50	.50 to 1.00	1.00 to 1.50	.75 to 1.50
MISCELLANEOUS				
Chrysanthemums.....	25.00 to 30.00	..... to	20.00 to 30.00	16.00 to 25.00
Cattleyas.....	50.00 to .....	..... to	50.00 to 60.00	50.00 to 75.00
Lilies.....	12.50 to 15.00	..... to	12.00 to	8.00 to 12.00
Violets.....	..... to .....	..... to .....	..... to .....	.25 to .50
Lily of the Valley.....	3.00 to 4.00	..... to 3.00	3.00 to 4.00	3.00 to 5.00
Dahlias.....	2.00 to 5.00	..... to	1.50 to 3.00	1.00 to 2.00
Tuberose.....	4.00 to 6.00	..... to	3.00 to .....	..... to .50
Mignonette.....	2.00 to 5.00	..... to .....	..... to	1.00 to 2.00
Adiantum Cuneatum.....	.75 to 1.00	1.00 to 1.25	1.00 to .....	.50 to 1.00
" Croweanum.....	1.00 to 1.50	..... to 1.50	..... to	1.00 to 1.50
Smilax.....	12.50 to .....	..... to 12.50	15.00 to	12.00 to 16.00
Asparagus Plumosus, strings.....	35.00 to 50.00	25.00 to 40.00	35.00 to 50.00 to 50.00
" " & Sprenger bunches	35.00 to 50.00	25.00 to 50.00	35.00 to 50.00	20.00 to 50.00

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A discount for cash with order.

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CUT FLOWER MARKET REPORTS

BOSTON The flower market here has been in a very brisk and healthy condition for the past ten days. As elsewhere the supply has been short, but the demand was excellent on all lines. Already, however, are detected signs of an approaching reaction which, when it does come, will undoubtedly hold sway for some time. Carnations broke slightly today, and chrysanthemums, although scarce, thus far, will in a few days be very abundant. Nobody can find any fault with the past week's business.

Improvement is shown **BUFFALO** daily in the market and values have stiffened somewhat; the supply being short prices have held firm all along the line. The recent frosts have cut the outdoor stock so hard that none is visible. Demands were heavy on carnations but supply very short and not quarter enough to be had to satisfy the hungry buyers. October weddings are plentiful and select roses are gathered up quick while the short stems seem to move much better than in weeks past. Dahlias have played an important part and have cleaned up well daily, the best demand on white, pink and red. Lily of the valley and other flowers are moving well.

The past week as far **COLUMBUS** as the weather went could not have been worse, but much to the surprise of the craft, we had the best business of the season thus far. Stock is improving in quality every day; prices are gradually strengthening. Monrovia chrysanthemums have appeared. Next week will see Polly Rose and Glory of the Pacific in the market, but as yet the weather is not cold enough to start chrysanthemums very fast. Carnations are in excellent demand, especially white varieties, and while they still sell at a low figure it will not be long before prices will advance all along the line. Bride and Kaiserin roses have found plenty of buyers at high figures, and the best American Beauties were marked up. Cosmos is especially nice and is very popular with the low priced trade for vase flowers. Asters and gladioli are practically gone. From now on it will be greenhouse flowers only. Last week was the first for a long time that some florist has not had a bargain sale; but all now are getting regular prices. Holland bulbs are selling fast with the seedsmen. In fact many popular varieties have already had to be replaced.

INDIANAPOLIS Business has made a good advance within the last ten days and all the dealers are busy. Prices have an upward tendency. Roses with all the growers are healthy and some good stock is being brought in. Some specially fine Beauties are seen which outsell all other roses. Carnations are better daily. All the leading retailers report an unusually large number of funeral orders of late. Judging by the displays, they all anticipate a large demand for decorative ferns of every variety. Dahlias and other outdoor stock are much in evidence now, but heavy frosts are predicted which will do away with that source of supply. Violets, lilies and chrysanthemums are arriving in limited quantities.

LOUISVILLE Business conditions the past week were rather slow, and stock was very plentiful with the exception of carnations, for which there was a constant call. Roses have had a fair demand, with the supply excellent, and the quality generally good. Asters are over. Lilies, lilies of the valley, violets, etc., can be had in small quantities, and find a fair demand. Greens are plentiful.

NEW YORK Not within the memory of the oldest commission man has this market been so bare of flowers as at the present time. There is really nothing doing, else the clamor would be loud and long. It is not likely to last much longer, however, as the

chrysanthemum requires but a few days more to become master of the situation. Polly Rose, Glory of Pacific, Monrovia and Omega are the chrysanthemums in evidence at present. Gardenias are of very fine quality and sell at 25 to 35 per hundred. In orchids there are some fine Dendrobium Phalaenopsis and oncidiums in evidence and a fine supply of Cattleya labiata.

PHILADELPHIA The Beauty market was good last week. Quality improved and the demand was all that could be desired. Not only are the stems and flowers better, but the demand was stimulated on account of the lateness of the chrysanthemum crop, the latter nearly two weeks later than usual. Richmond and Liberty are still on the long side. Brides went well and were not over plentiful. There are some very nice Wellesley coming in. Bridesmaids were in fair demand and plentiful. There are a few Chateaus to be had, but they are rather small so far. Very few Carnots. Glory of the Pacific, Polly Rose and Monrovia are the principal chrysanthemums coming in. They are well finished stock and find ready sale. There was some frost on the 7th and 8th, but the dahlia crop seems to have escaped all right. The whites and pinks are the best sellers, especially in the cactus class. Among the deep reds, Katherine Duer has the call. Carnations are improving both in quality and quantity. Cattleya labiata, dendrobium and oncidium are the chief features of the orchid market.




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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Oct. 6 1906	First Half of Week beginning Oct. 8 1906		Last Half of Week ending Oct. 6 1906	First Half of Week beginning Oct. 8 1906
Roses			Carnations, Fancy	2.00 to 3.00	3.00 to 5.00
Am. Beauty, fac and sp.	20.00 to 30.00	25.00 to 40.00	Carnations, Ordinary	1.00 to 1.50	1.00 to 1.50
" extra	10.00 to 15.00	10.00 to 15.00	Chrysanthemums	..... to	10.00 to 30.00
" No. 1	8.00 to 10.00	8.00 to 10.00	Cattleyas	50.00 to 75.00	35.00 to 50.00
" Lower grades	1.00 to 5.00	1.00 to 5.00	Lilies	8.00 to 12.00	15.00 to 25.00
Bride & Maid, fan and sp.	4.00 to 8.00	4.00 to 8.00	Lily of the Valley	1.00 to 3.00	3.00 to 5.00
" Ordinary	.50 to 2.00	.50 to 2.00	" alias	.50 to 2.00	.50 to 2.00
Golden Gate, fancy	4.00 to 5.00	4.00 to 8.00	Tuberose	..... to .....	..... to
" ordinary	.50 to 2.00	.50 to 2.00	Nignonette	..... to .50	..... to .50
Liberty, fancy	4.00 to 8.00	4.00 to 8.00	" Cucuratum	.50 to .75	.50 to .75
" ordinary	1.00 to 2.00	1.00 to 2.00	" Croweanum	1.00 to 1.50	1.00 to 1.50
Richmond, fancy	4.00 to 8.00	4.00 to 8.00	Smilax	6.00 to 10.00	6.00 to 10.00
" ordinary	1.00 to 2.00	1.00 to 2.00	Asparagus Plumosus	15.00 to 25.00	15.00 to 25.00
Kaiserio, Carnot, Chateau, fancy	4.00 to 8.00	4.00 to 8.00	" " & Sprenger, bunches	10.00 to 25.00	10.00 to 25.00
" " " ordinary	.50 to 2.00	.50 to 2.00			

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WM. DILGER
Manager

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Richmond Roses and Rich Flowers
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And all kinds of Seasonable Flowers

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Give us a trial. We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

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Fresh Northern, \$1.00 per 1000.

LYRATA, the best substitute for Smilax, \$7.00 per case. Headquarters for all **FLORISTS' SUPPLIES**. Wire Designs, Cut Wire, Letters, Immortelles, Cycas Leaves, Wheat Sheaves, Ribbons, Corrugated Boxes, etc.

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WHOLESALE FLOWER MARKETS.

PER 100. TO DEALERS ONLY.

	CINCINNATI October 9	DETROIT October 8	BUFFALO October 8	PITTSBURG October 9
ROSES				
Am. Beauty, Fan, and Sp.	30.00 to 35.00	30.00 to 40.00	20.00 to 25.00	25.00 to 35.00
" Extra	20.00 to 25.00	30.00 to 30.00	15.00 to 25.00	18.00 to 20.00
" No. 1	10.00 to 15.00	15.00 to 20.00	10.00 to 15.00	10.00 to 12.00
" Lower grades	4.00 to 6.00	8.00 to 10.00	3.00 to 10.00	3.00 to 6.00
Bride and 'Maid—Fan, and Sp.	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 6.00
" Ordinary	2.00 to 3.00	1.00 to 4.00	3.00 to 5.00	2.00 to 4.00
Golden Gate, Fancy	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 6.00
" Ordinary	2.00 to 3.00	3.00 to 4.00	3.00 to 5.00	2.00 to 4.00
Liberty, Fancy	5.00 to 6.00	6.00 to 8.00	7.00 to 8.00	6.00 to 6.00
" Ordinary	2.00 to 3.00	3.00 to 4.00	3.00 to 5.00	2.00 to 4.00
Richmond, Fancy	5.00 to 6.00	6.00 to 8.00	7.00 to 8.00	6.00 to 6.00
" Ordinary	2.00 to 3.00	3.00 to 4.00	3.00 to 5.00	2.00 to 4.00
Kaiserin, Carnot, Chateaux, Fancy	5.00 to 6.00	5.00 to 8.00	6.00 to 7.00	6.00 to 10.00
" Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00	4.00 to 4.00
CARNATIONS				
Fancy	1.50 to 2.00	1.50 to 2.00	2.00 to 2.50	2.50 to 3.00
Ordinary	.75 to 1.00	1.00 to 1.00	1.00 to 1.50	1.50 to 2.00
MISCELLANEOUS				
Chrysanthemums	15.00 to 25.00	5.00 to 6.00	..... to	20.00 to 25.00
Cattleyas	..... to	50.00 to .....	..... to .....	..... to
Lilies	8.00 to 10.00	12.50 to	5.00 to 15.00	18.00 to 20.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Dahlias	1.00 to 2.00	2.00 to 3.00	1.00 to 3.00	1.00 to 3.00
Tuberose	..... to	3.00 to 4.00	..... to .....	..... to
Mignonette	..... to .....	.50 to 1.00	1.00 to 1.50	..... to
Adiantum Cuneatum	..... to 1.00	1.50 to 2.00	.50 to 1.00	..... to .75
" Croweanum	..... to .....	..... to	1.00 to 1.50	1.00 to 1.50
Smilax	10.00 to 12.00	12.50 to 15.00	12.50 to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	..... to 25.00	40.00 to 50.00	30.00 to 50.00
" & Sprengeri, bunches	35.00 to .....	..... to 25.00	25.00 to 50.00	40.00 to 50.00

Geo. A. Sutherland Co.
CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - - BOSTON

Be it known to ye, our friends, also the Trade in general that on or about the First of NOVEMBER, A. D., 1906, WE WILL MOVE OUR BUSINESS into the very center of the City of Philadelphia,

125 NORTH 10th STREET, above Arch Street

Keep your eye on the enterprising Florist Supply House of

J. STERN & CO., 1928 GERMANTOWN AVE., PHILADELPHIA

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Henry A. Dreer, Philadelphia. For page see List of Advertisers.

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. P., '05. A. Ley & Bro., Langdon, D. C.

Adiantum Farleyense, 2 1/2 in. strong stuff, for growing on, or for Fern dish, \$15.00 per 100; \$140.00 per 1,000. J. A. Peterson, Westwood, Cincinnati, O.

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Thos. J. Grey & Co., 32 S. Market St., Boston.

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James Crawshaw, 403 Plainfield St., Providence, R. I. Asparagus Crawshawii. For page see List of Advertisers.

Asparagus Sprengeri, large, field-grown clumps, \$8.00 100. H. W. Vose, Hyde Park, Mass.

Asparagus plumosus nanus and Sprengeri, 2 1/2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus plumosus and Sprengeri, fine 2-in. stock, \$2.00 100; \$18 00 1000. Cash. Lewis Ulrich, Tiffin, Ohio.

Asparagus Plumosa, 2 in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erle Floral Co., Erle, Pa., or Wm. F. Kasting, 385 Ellicott St., Buffalo, N. Y.

AUSTRIAN AND SCOTCH PINES.

The F. E. Conine Nursery Co., Stratford, Conn.

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Henry A. Dreer, Philadelphia. Begonia Gloire de Lorraine. For page see List of Advertisers.

Begonias Gloire de Lorraine and Turnford Hall, propagated from leaf cuttings, \$15.00 100; \$140.00 1000; 4-in., \$40.00 100. Cash. J. A. Peterson, Westwood, Cincinnati, O.

BOUVARDIAS.

Nanz & Nenner, Louisville, Ky.

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Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

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A sample 100-lb bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address The Parwell Agricultural Works, Waukegan, Ills. Established at Leicester, England in 1800.

Pulverized Manure Co., Sheep Manure, 31 Union Stock Yards, Chicago.
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Mills, the Florist, Jacksonville, Fla.

Telegraph or mail orders promptly filled.
Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.

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LILIUM HARRISII.

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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp.
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Primula Obs. Grandiflora, 4-lu. pots,
\$6 per 100. Cash, please. A. Relyea & Son,
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Henry A. Dreer, Philadelphia.
Baby Rambler.
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American Beauties, 2-in., \$55.00; 3-in.,
\$8.00 1000. Cash. J. Henry Bartram,
Landsdowne, Pa.

Roses, Baby Rambler, the strongest dor-
mant stock in the country, \$25.00 per 100;
2 1/2 in. pot plants, \$7.00 per 100, \$65.00
per 1000. Brown Bros. Co., Rochester,
N. Y.

SEEDS.

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W. W. Rawson & Co., 5 Pine St., Boston.
Vegetable Seeds for Seedling.
For page see List of Advertisers.

SEEDS—Continued.

G. C. Watson, Dobson Bldg., Phila.
Grass Seeds.
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Rickards Bros., 37 East 19th St., New York.
For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany, Est-
ab. 1789. High Grade Grass, Clover, and
Tree Seeds.

SHEEP MANURE.

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
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SHEET MOSS.

E. A. Beaven, Evergreen, Ala.
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SMILAX.

J. C. Schmidt Co., Bristol, Pa.
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E. A. Beaven, Evergreen, Ala.
Southern Smilax.
For page see List of Advertisers.

SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand Lager &
Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales,
\$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash.
H. R. Akers, Chatsworth, N. J.

SPIRAEA.

Warnaar & Co., Sassenheim, Holland.
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STEAM TRAP.

E. Hippard, Youngstown, O.
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STRAW MATS.

Wm. Elliott & Sons, 201 Fulton St.,
New York.

TOMATO SEEDS.

Wm. Sim, Cliftondale, Mass.
Comet Tomato.
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VEGETABLE PLANTS.

Plainfield Nursery, Plainfield, Ind.
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VENTILATING APPARATUS.

Lord & Burham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Seelley, 73 75 Myrtle Ave.,
Brooklyn, N. Y.
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Weathered Co., 46 and 48 Marion St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

VIOLETS.

H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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J. C. Schmidt Co., Bristol, Pa.
For page see List of Advertisers.

Charles H. Green, Spencer, Mass.
Princess of Wales.
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Princess Violets, strong, field grown
plants \$45.00 per 1000, cash. George W.
Cullick, Cohasset, Mass.

Gov. Herrick Violet, No. 1 shape, 2 1/2 in.
pots, ready to bench, \$2.00 per doz., \$16.00
per 100, \$80.00 per 1000. W. A. Calhoun,
2226 Euclid Ave., East Cleveland, Ohio.

WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.

Boston.

N. F. McCarthy & Co., 84 Hawley St.,
Boston.
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George A. Sutherland Co., 34 Hawley St.,
Boston.
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Welch Bros., 226 Devonshire St., Boston.
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Buffalo.

Wm. F. Kasting, 383-87 Ellicott St., Buf-
falo, N. Y.
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Chicago.

J. A. Budlong, 37 Randolph St., Chicago.
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Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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Detroit.

Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Dilger, mgr.
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New York.

J. K. Allen, 106 W. 28th St., New York.
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Wm. Stuart Allen Co., 53 W. 28th St.,
New York.
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J. S. Fenrich, 110 W. 28th St., New York.
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Ford Bros., 48 West 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 West 28th St.
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E. C. Horan, 55 West 28th St., New York.
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Philip F. Kessler, 55 W. 26th St., New York.
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Julius Lang, 53 West 30th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McManns, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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Frank Millang, 55-57 W. 26th St., New
York.
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A. Moltz, 55-57 W. 26th St., New York.
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John I. Raynor, 49 W. 28th St., New York.
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W. E. Sheridan, 39 W. 28th St., New York.
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Traendly & Schenck, 44 W. 28th St., New
York.
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Hicks & Crawbuck, Inc., 76 and 78 Court
St. Brooklyn, N. Y.
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John Young, 51 W. 28th St., New York.
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Philadelphia.

W. E. McKissick, 1221 Filbert St., Phila-
delphia, Pa.
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Leo Nissen Co., 1217 Arch St., Phila-
delphia, Pa.
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The S. S. Pennock-Meehan Co., 1608-18
Ludlow St., Philadelphia, Pa.
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Edward Reid, 1526 Ranstead St., Philadel-
phia, Pa.
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Pittsburg.

J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.
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Pittsburg Florists' Exchange, 228 Diamond
St., Pittsburg, Pa.
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New Offers in This Issue.

ADIANTUM FARLEYENSE, PANDANUS VEITCHII, BOSTON FERNS, BEGONIAS.

J. A. Peterson, McHenry Av., Cincinnati, O.
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BOXWOODS.

J. H. Troy, New Rochelle, N. Y.
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CARNATIONS, FICUS, FERNS.

Wm. C. Smith, 61st & Market Sts., Phila.
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CARNATION PLANTS.

Isabella Greenhouses, Babylon, L. I., N. Y.
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CAULIFLOWER, CABBAGE SEED.

Hjalmar Hartmann & Co.,
12 Storaagade, Copenhagen, Denmark.
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HIGH GRADE BULBS.

Johnson Seed Co., 217 Market St., Phila.
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NARCISSI FREESIAS.

Wm. Elliott & Sons,
201 Fulton St., New York.
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ORCHIDS, LILY OF THE VALLEY.

S. S. Pennock-Meehan Co.,
1608-1618 Ludlow St., Phila.
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PALMS, ASPIDISTRAS, ARAUCARIAS.

H. Rosenkranzer,
36 Clinton St., Newark, N. J.
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REMOVAL NOTICE.

J. Stern & Co., 1928 Germantown Av., Phila.
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ROSE PINK ENCHANTRESS.

S. S. Skidelsky, 824 N. 24th St., Phila.
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ROSES, RHODODENDRONS, CONFIFERS, HARDY SHRUBS, PERENNIALS.

H. Rosenkranzer,
36 Clinton St., Newark, N. J.
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VIOLETS, LADY CAMPBELL.

J. M. Bramham, Waldrop, Va.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—Private place preferred as head gardener. Married; two children; good reference. A. N., care R. & J. Farquhar Co., Boston.

SITUATION WANTED by carnation and violet grower; also good grower of Budding Stock; 25 years' experience. J. P. Hersey, 29 So. Main St., Attleboro, Mass.

SITUATION WANTED—As private gardener on place where there is a range of greenhouses. Best of references. Over 7 years in last place. Expert rose grower. Married. Address J. J., care HORTICULTURE.

WANTED—Medium sized second hand hot water boiler. H. W. Vose, Hyde Park, Mass.

WANTED—Experienced florist for high class city store. Apply in person or write to W. H. Traendly, 190 West 17th Street, New York City.

ROSES

FORCING QUALITY — SPLENDID STOCK

Druschki, Kaiserin, Liberty, Teplitz, Perle, Killarney, 'Maid, etc., etc. Dwarf, \$10 per 100, Standard, \$24 per 100.

BABY RAMBLERS, \$15 per 100. CRIMSON RAMBLERS, E. Strong, \$12 per 100.

MANETTI, \$8 per 1000. BRIARS, \$6 per 1000.

Rhododendrons, Azalea Mollis, pontica and indica, Perennials, Shrubs, Conifers at lowest prices. Please write to

H. ROSENKRAENZER, 36 Clinton Street, Newark, N. J.

OBITUARY.

Patrick J. Donohue.

It is our sad duty to record the death of this well-known and highly esteemed gardener at his home in Lenox, Mass., on October 1, at the age of sixty years. Mr. Donohue's gardening tastes were inherited from his father, who was a gardener in Ireland, and in Galway, where he was born,

K. Jesup was building his great stone house at Lenox, he induced Mr. Donohue to go to Lenox to undertake the laying out of the grounds, and for the next 16 years the hand that had made beautiful the homes of Bennett and Astor was devoted in making Belvoir Terrace what it is. Mr. Donohue was eminently successful in both outdoor and indoor plant and fruit culture. He was a member of the Lenox Horticultural Society and, until recently, of the Society of American Florists. He was of jovial and companionable temperament and enjoyed the esteem of his fellow-gardeners in a marked degree.

Isaac P. Dickinson.

Isaac P. Dickinson, died in Morganville, N. J., on October 3, aged 81. Mr. Dickinson was for many years a resident of Springfield, Mass., and actively interested in the development of land about Forest Park. He moved his market gardening business to Morganville about twenty years ago.

INCORPORATED.

The Braidwood Floral Co., Denver, Colo., capital, \$25,000; incorporators, J. B. Braidwood, Wm. Williamson, C. A. Braidwood.



Mr. Donohue was taught the business. In 1864 he came to America and entered the employ of James Gordon Bennett, the elder. Bennett, who was always bragging of his beautiful property, one day praised the work of Donohue in the presence of John Jacob Astor, and Astor, wanting a man to develop his Newport property, sent for Donohue and engaged him. Bennett cabled to Astor one of his sharp retorts when he heard of Astor overbidding him for the services of his gardener. In 1890, when Morrill

Adiantum Farleyense, finished plants \$1.50 to \$2.00 each

Begonia "Gloire de Lorraine" and "Turnford Hall"

A few hundred extra heavy plants, in 3 and 4 inch pots. Last call.

Pandanus Veitchii, 50c \$1.00, \$1.50 and \$2.50 each

No better value to be had anywhere.

Boston Ferns, (choice specimens) \$2.00 each

J. A. PETERSON, FLORIST
McHenry Av., Westwood, Cincinnati, O.

Tobacco Paper "NICO-FUME" **LIQUID**
 IS THE **STRONGEST, BEST PACKED, EASIEST APPLIED.**
Furnishes the Most Nicotine for the Money!
 ... Manufactured by ...
THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

OVER 40% NICOTINE
 By far the **CHEAPEST.**
JUST NOTE PRICES!
 Pint.....\$ 1.50
 1/2 Gallon..... 5.50
 Gallon..... 10.50
 5 Gallons..... 47.25

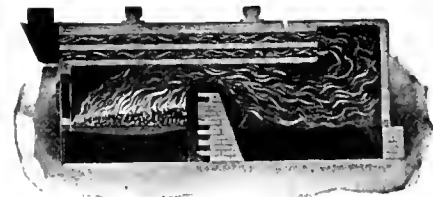
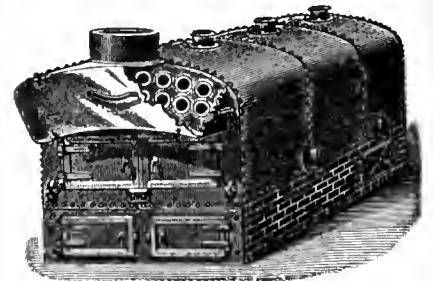
24 sheets.....	\$ 0.75
144 sheets.....	3.50
288 sheets.....	6.50
1728 sheets.....	35.10

STANDARD PLATE GLASS CO.
 Manufacturers, Importers and Jobbers
 AMERICAN AND FRENCH GREENHOUSE GLASS
 26-30 Sudbury Street
 61-63 Portland Street
BOSTON, MASS.

Kroeschell Bros. Co.
 IMPROVED
Greenhouse Boiler,
 35 Erie St., CHICAGO.



NEWS NOTES.
 Mrs. Jennie has opened a flower stand in the Usona Hotel, Fulton, Ky.
 Edouard Scholtz, has opened a flower store at 20 West Trade street, Charlotte, N. C.
 Wm. Beerbaum has leased the greenhouses of Precht the Florist, at Simonville, Conn.
 G. G. McClunie of Hartford will open a store in Curtis block, New Britain, Conn., on October 15.
 Perkins & Schumann, wholesale florists, are about to remove to 57 West 26th street New York.
 James Lenahan has leased the Brainard greenhouses at Gouverneur, N. Y., and took possession on October 1.



Boilers made of the best material; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
 ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
 NEPONSET, BOSTON, MASS.

SEND FOR CATALOGUE OF
SCOLLAY HOT WATER
 and **STEAM BOILERS**
JOHN A. SCOLLAY
 73 and 75 Myrtle Avenue
 BOROUGH OF BROOKLYN, N. Y. CITY

BOSTON PLATE & WINDOW GLASS CO.
GREENHOUSE GLASS
 German and American
 261 to 287 A St., BOSTON 20-22 Canal St.

E. F. Flynn of Lawrence, Mass., has located temporarily across the street while his present quarters are being remodelled.

Howard Broomhall, formerly employed by J. D. Imlay, will open a new flower store on North Fifth Street, Zanesville, O.

David Gordon leaves the Morton F. Plant estate, Eastern Point, Ct., to become head gardener on the estate of Hon. E. S. Draper, Hopedale, Mass.

At the Brockton Fair, (Mass.), among the exhibitors of flowers are listed the names of J. K. Alexander, Mrs. H. A. Jahn and W. H. Richardson of New Bedford, W. P. Lothrop of E. Bridgewater and George Walker of North Dighton.

Among the prominent entries at the floral exhibition in Danbury, Conn., the past week were those of W. H. Tarbox, E. Greenwicz, R. L. Seaman's Conservatories, Deer Hill Conservatories, Cornell's Conservatories, and H. H. Tomlinson.

F. H. Lamb, assignee for the Webster Floral Company of Hamilton, Ont., has disposed of the stock to a new company composed largely of local people with J. Cannon and George Davidson in charge. W. W. Gammage of London, Ont., is one of the directors. In addition to the present business a retail store will be opened in Hamilton. The new company will be known as the Cannon Floral Company, Ltd.

A SAVING DEVICE

The MOREHEAD TRAP
 will cut down operating expenses and bring better results.
 Write us. We can help you grow better flowers.
MOREHEAD MFG. CO.
 1045 Grand River Ave. DETROIT, MICH.

N. TONAWANDA, N. Y. TORONTO, ONT.
KING CONSTRUCTION CO.
 GREENHOUSE CONSTRUCTION AND EQUIPMENT
 WRITE FOR CATALOGUE AND PRICES

GREENHOUSE CONSTRUCTION LUMBER
John C. Moninger Co.
 117 E. Blackhawk St., CHICAGO

LET IT STRIKE YOU

FOLEY MFG. CO.
471 W. 22ND ST. CHICAGO.

GREENHOUSE MATERIAL

HOT-BED SASH VENTILATING APPARATUS
OF ALL KINDS
FITTINGS &c.

SEND FOR FREE ILLUSTRATED CATALOGUE

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us. **FOLEY MANUFACTURING CO.,** 471 W. 22d Street, Chicago

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Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

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PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

Holds Glass Firmly

See the Point at **PEERLESS**

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.

FULL SIZE No. 2



WHAT OTHERS SAY

On pages 66 to 69 of that new catalog, you will not find "testimonials" but frank expressions of what some leading gardeners and rather prominent men really think of U-Bar Greenhouses and in some few cases just why they think that way; unsolicited letters of this kind have an earnest, honest value.

There's one thing sure—any man ever building a U-Bar Greenhouse never builds any other kind—you can't swing him back—if additions are made they are U-Bar additions.

But send for that Catalog, and see what others say.

PIERSON U-BAR COMPANY
Designers and Builders
U-BAR GREENHOUSES
Metropolitan Bldg., 4th Ave. and 23rd St.
NEW YORK

GURNEY HEATERS
FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE 74 FRANKLIN ST. BOSTON

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2 in. pots in crate	\$4.88	120 7 in. pots 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. pots in crate	\$3.60
800 3 1/2 " " " "	5.80	24 10 " " " "	4.80
500 4 " " " "	4.50	24 12 " " " "	4.80
320 5 " " " "	4.51	12 14 " " " "	4.80
144 6 " " " "	.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.**
August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower .. POTTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money.
W. H. ERNEST,
25th and M Streets, WASHINGTON, D. C.

NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE BY HAIL. For particulars address **John G. Esler, Saddle River, N. J.**



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for our latest bit of printed matter called — "How to Make a Little Time Save a Lot of Money." It's not a mere advertising catch phrase but a genuine prescription that's bound to cure. Send the postal.

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GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.



YES, WE HAVE A TROUBLE MAN

It's his business to help you florists out of all sorts of building and heating kinks — help you out of kinks and into the sort of thing that "stays put," whether it's paint, putty, a boiler or the greenhouse itself.

By "stay put" we mean not only a matter of endurance but the giving of highest possible returns for money paid. Write our "trouble man."

Lord & Burnham Co.

GREENHOUSE DESIGNERS and MANUFACTURERS

1133 BROADWAY, cor. 26th Street, N. Y.
Boston Branch: 819 Tremont Building



TWEMLOW'S

Old English

Liquid and

For Bedding Glass in Sash or for Filling Cracks or Seams



Glazing Putty

Elastic

In Roof Joints or Frames of Greenhouses or Hotbeds.

It is used in Machine or Bulb. If too thick for bulb thin with a little Pure Linseed Oil, boiled. So thinned, it can be brushed into any crack or leak, making a solid filling. It makes a solid bed, impervious to moisture, and holds glass in its place, and will stop any crevice or fault. When once set on dry wood it does not heave. As regards the goods, the article is **no new invention**, but simply an article of the very best class, to do thoroughly good work, like old time gentlemen expected when sashes were made with lead, and small panes of glass used that caught the water and leaked unless set with an **elastic** putty which once set by a mechanic was expected to remain, and **did remain** in good shape. This Twemlow's Old English Glazing Putty does: nothing more, nothing less. **SOLD BY THE FLORISTS' SUPPLY HOUSES.**

Manufactured in the United States only by

HAMMOND'S PAINT AND SLUG SHOT WORKS, FISHKILL-ON-THE-HUDSON NEW YORK

The Standard Steam Trap



Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogue free.

E. HIPPARD, Youngstown, Ohio



In a Premier Greenhouse—

all good points are combined. There's durability, artistic appearance, ease of erection — and — ease of RE-erection.

It's a better house than is usually built; the price is ONE THIRD of that usually charged.

Send for booklet No. G-18.

Chas. H. Manley,

Premier Mfg. Works, St. Johns, Mich.

WEATHERED COMPANY

BOX 789, NEW YORK

GREENHOUSE BUILDING AND HEATING

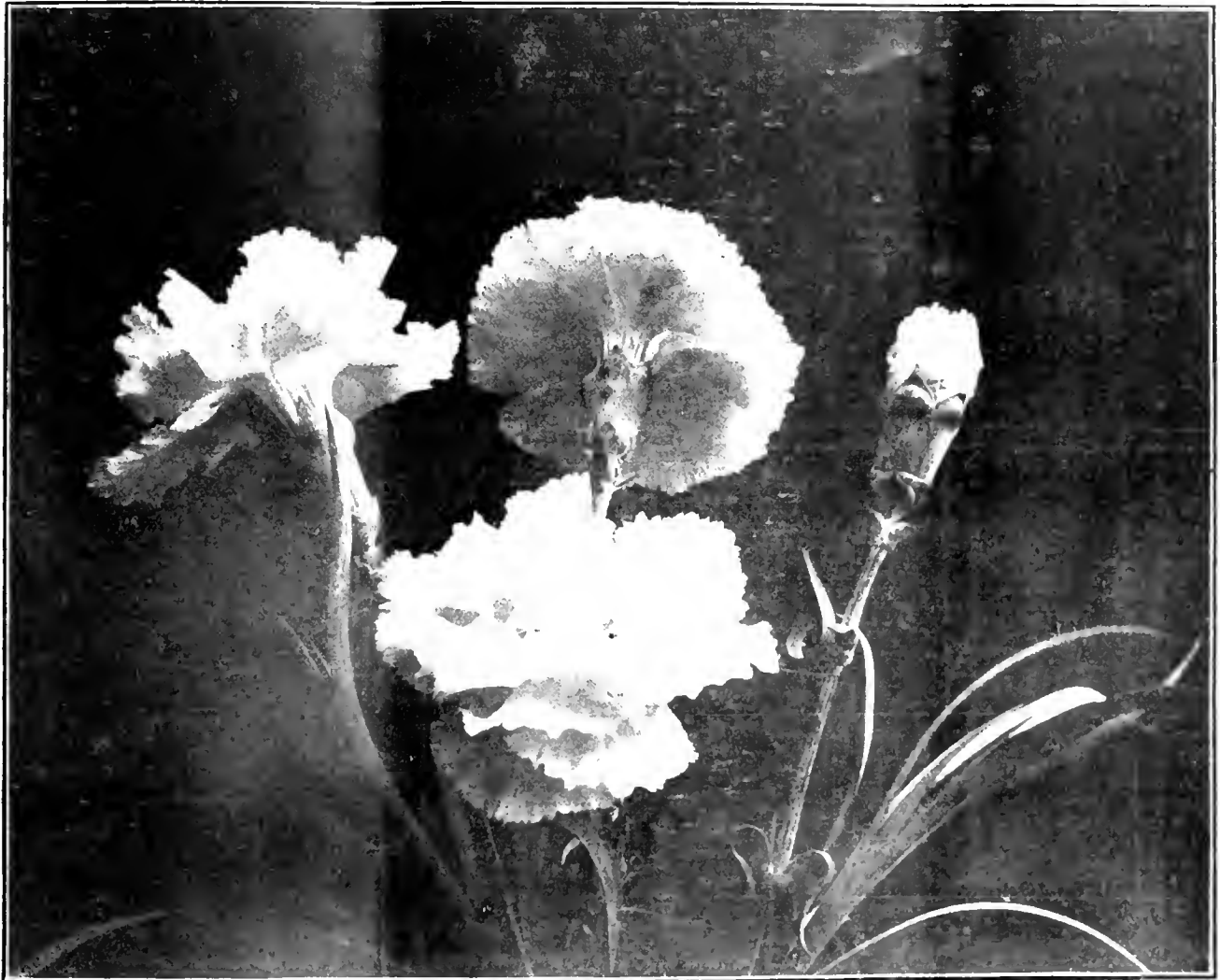
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HORTICULTURE

Vol. IV.

OCTOBER 20, 1906

No. 16



CARNATION ALMA WARD

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

ROSE PINK ENCHANTRESS

Is Pre-eminently "The Pink" of Pink Carnations

It differs in no wise from the old variety except in color, which is a clear pink, resembling that of Fiancee and Marquise. As to habit of growth, productiveness, etc., Enchantress is too well known to need any description.

Our stock last season, consisting of about 50,000 cuttings (propagated from 1400 plants,) was exhausted in the course of two months. Three times the available quantity would scarcely have sufficed to go the rounds.

WE HAVE MADE AMPLE PREPARATIONS and will be well equipped to supply the demand for the Rose Pink Enchantress during this season. Our stock is in splendid condition, strong and healthy, and the cuttings we send out will be guaranteed to give entire satisfaction.

THE ROSE PINK ENCHANTRESS is an ideal variety, viewed from whatever standpoint.

ROOTED CUTTINGS. JANUARY AND LATER DELIVERY

\$7.00 per 100; 50 and 25 at 100 rate
\$60.00 per 1,000; 250 at 1,000 rate

S. S. SKIDELSKY

824 N. 24th Street, Philadelphia

B. SCHROETER

59 Broadway, Detroit, Mich.

MABELLE NEW PINK CARNATION FOR 1907

COLOR—A peculiar shade of lovely pink, with a faint yellowish cast, several shades lighter than the Lawson. Unlike most Pinks, the brightest sun does not injure the color. **SIZE**—3 to 4 inches in diameter when established. **ODOR**—Pleasing, but not strong. **STEMS**—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. **HABIT, etc.**—A very quick, active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires support very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. **PRODUCTIVENESS**—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. **Stock Limited. Delivery January 5th to 10th and later.**

Price \$12.00 per 100, \$100.00 per 1000

The H. WEBER & SONS CO., Oakland, Md.

VIOLETS

Lady H. Campbell & California, out of 2 1/2 inr pots. Fine healthy stock.

\$2.00 per 100; \$10.00 per 1000

Smilax 2 1/2 in. \$1.25 per 100; \$10.00 per 1000

J. C. Schmidt Co., Bristol, Pa.

GOVERNOR HERRICK THE NEW VIOLET

Originated and introduced by

H. R. CARLTON, Willoughby, O.

We have the following stock in the finest condition to plant and now is the time to plant

3/4 inch at \$2.00 per 100, \$10.00 per 1000 and \$75 per 10000
1/2 " " 2.50 " " 12 " " 100 " " 7 " " 10000

It will pay you. Try it. Order at once.

VIOLETS

Strong Field Grown Clumps

PRINCESS OF WALES, \$5.00 per 100

CASH WITH ORDERS

CHAS. H. GREEN, Spencer, Mass.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Adiantum Farleyense, finished plants

\$1.50 to \$2.00 each

Pandanus Veitchii,

50c \$1.00, \$1.50 and \$2.50 each

No better value to be had anywhere.

Boston Ferns, (choice specimens)

\$2.00 each

J. A. PETERSON, FLORIST

McHenry Av., Westwood, Cincinnati, O.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

RICHMOND ROSE 2 1/4 in.	\$11.00	\$100.00
KAISERIN " "	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
ENCHANTRESS	3.00	25.00
QUEEN and LAWSON	2.00	15.00

E. H. PYE, FLORIST

UPPER NYACK, N. Y.

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Commercial Chrysanthemum Culture in England

Early flowering chrysanthemums have now long since passed the stage when they were grown by a few enthusiastic amateurs in London suburban gardens. A few admirers of this type began to agitate some years ago for something like official recognition of their favorites, and as a result the early flowering chrysanthemum occupies a place today in English horticulture that must have surpassed the most sanguine expectations of the greatest dreamer.

Exhibitions of early varieties were organized by the National Chrysanthemum Society some years ago and since then there has been a steady increase in the popularity of the flower. Last year a conference was held specially devoted to these varieties and there is but little doubt that the way in which the amateurs have pushed the merits of early varieties to the front has brought about an unlooked-for appreciation of them by the general public.

Most of the chrysanthemum specialists in this country have more or less a department in which attention is paid to the earlies, but as their business is chiefly confined to the sale of plants and cuttings for growers it has been reserved for some of the marketmen to undertake the cultivation of early chrysanthemums for the blooms only.

In the streets of London at this season of the year the florists' shops and the street hawkers of flowers are everywhere to be seen well supplied with bunches of early chrysanthemums. The colors are perhaps fewer than those of the later sorts used by the exhibitors at the shows. The blooms of course are far inferior in size, but are none the less useful for home decoration.

To gain some idea of the importance to which the commercial culture of the early chrysanthemum has attained I have just visited one of the largest market growers in the neighborhood of the great metropolis. Messrs. Cragg, Harrison and Cragg of Heston have about 40 acres under cultivation for market purposes generally, and of this from ten to twelve acres are devoted to the culture of chrysanthemums.

Mr. Percy A. Cragg very kindly conducted me over his firm's establishment, and as I had the pleasure of spending a few days with him at the Paris chrysanthemum show last November I was more than ordinarily interested in his collection, remembering that he had between five and six hundred novelties under trial, many of which he had specially imported from continental growers. Of these M. Aug. Nonin undoubtedly ranks first from the early growers' point of view.

Out of a number like this there will of course be a rigid selection, for it is of no use growing fancy sorts that will not sell in the open market and fetch a price commensurate with the time, trouble and expense laid out upon them. Hitherto the average number of varieties suitable for market range between 160 and 180. The first batches of these are grown in great numbers in the open ground, where they are flowered and cut as required. A light wooden frame-work is erected over the rows, and danger from early frosts is averted by a covering of oiled calico which can be drawn over the horizontal supports towards evening. Other plants are grown in the open and then are lifted towards the end of September and replanted in glass structures 200 feet long by 40 feet wide, a slight shading being necessary until they recover from the shift. For later purposes plants are grown outdoors all the summer in 11 inch pots and housed in the usual way; these give a supply of cut blooms long after the real earlies are done with.

On the packing benches the men and boys employed at the trimming of the stems of cut blooms are busy with vans leaving the place so as to reach the Flower Market by morning. Huge quantities of large numbers of plants are cut with stems long from wither, when select the varieties are cut. We notice one, *Queen's Pride*, a fair sized Japanese of good form that is of a deep rich crimson. Several others contain *Nellie Blake*, a rosy salmon with a golden centre, also a Japanese of good size and a very attractive flower. *Mme. C. Desgranges* and its golden sport *Gustave Wernig* are abundantly in evidence. *Queen of the Earlies* and its golden sport are big solid blooms reminding of the November show varieties.

We now pass into the nursery ground and find ourselves face to face with a vast area of chrysanthemums in full bloom. Of these there are 5,000 plants of *Mme. Desgranges* and 5,000 of *Gustave Wernig*. Money-maker is also in large quantities and is a big Japanese incurved with broad florets, color white slightly tinted, and for market purposes has the advantage of standing well above the foliage on long stems. *La Triomphante*, an old pink. *Market Gold*, a crimson with gold reverse and very broad florets; *Sunshine*, deep golden yellow of which there are 5,000 plants; *Nellie Blake* and *Nina Bick*, a reddish chestnut, a very promising variety that is to be grown in greater quantity next year are all noteworthy examples of marketable sorts.

Among odds and ends on trial we observe not a few that look like promising sorts. *Mme. Guindudeau*, pale lilac mauve; *Holmes White*, *Pollie E. Balbet*, *Orange Pat*, *Etoile Blanche*, *Orange Masse*, *Goacher's Pink*, *Bolide Arlesienne*, and many others may be well enough for the amateur's garden but as market varieties their merits have yet to be proved.

We now approach a sight unique perhaps on this side of the Atlantic and our courteous guide smiles quietly as we express surprise. Right and left of us almost as far as the eye can reach on a dead level are big plants in 11-inch pots clothed with leathery massive foliage and buds all taken. Here stand 20,000 every one of which will be under glass in a fortnight's time. They are mostly later sorts and consist of such as *Tuxedo*, *Nagoya Western King*, *W. H. Rieman*, *Souvenir de Petit Ami*, *Lord Brooke*, *Major Bonaffon*, *Mme. P. Radaelli*, *Ralph Hatton*, etc.

But we have not yet done with the outdoor earlies for we are led a little further on and there are shown great batches, each variety by itself growing and blooming in the open ground. We can only deal with these briefly for space will not permit of more. *Charles Joly*, a rosy purple Japanese is represented by a batch of 3,000 plants, *M. Wm. Holmes* a thousand, *Etoile d'Or*, a fine yellow, a batch of 2,000, *Miss B. Miller*, a very fine bloom, rich golden yellow, a batch of 1,000 *Le Paetole*, a golden reddish chestnut Japanese 3,000 plants. Other varieties grown in greater or lesser numbers are *Champ de Neige*, *Harvest Home*, *Cranford White*, *Gertie*, *Etoile Blanche*, *Goacher's Crimson*, *Rabbie Burns*, *Pollie*, *Carrie*, *Crimson Masse*, *Mlle. Marie Masse*, *Parisiana*, *Roi des Blancs*, *Rycroft Glory*, *Nivets*, *Phoebus*, *N. C. S. Jubilee*, and finally a broad expanse of the rich golden yellow of *Horacé Martin* of which there is about one acre.

Arthur Payne

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WM. J. STEWART, Editor and Manager

Befriending the shade trees

It is a satisfaction to see all over this country a growing regard for the street trees and a respect for such local ordinances and laws as have been passed for their protection. It is to be hoped that stringent legislation may be favored everywhere and that the reckless destruction of these health-giving beautifiers of our roadways by railroad, gas and other corporations and unfeeling local authorities may now cease. Eternal vigilance is the price of street trees as we have good reason to know from past experience. Public opinion is now headed in the right direction and the courts have shown in nearly every case brought before them that they are the friends of the trees.

Societies should be upheld

It seems almost incredible that so small a percentage of those depending upon one or another branch of horticulture are disposed to align themselves with the various local, state and national societies, organized and conducted for their direct benefit. In none of these bodies is the cost of membership large enough to impose any serious privation on the most impecunious member. That through the weighty influence of united strength much benefit has come to those in whose interests they have been created is apparent to every one. Why not, then, do the manly act and lend a hand for the common good? No self-respecting individual can be satisfied to be forever receiving and never giving. The shabbiest man of all is the one who "don't see that the society (or club) is any use" to him. Argument with such is simply wasted effort for his is a case of voluntary blindness, a usually incurable malady.

A rapidly develop- ing industry

It has been our privilege to show, in recent issues of this journal, illustrations of floral establishments—wholesale and retail—in size, furnishings, and equipment, far beyond anything hitherto attempted and fully abreast of the most pretentious models of long-founded industries. None of the instances that come to our mind can be classed in the line of speculative venture or haphazard ostentation, but are based on careful consideration of the possibilities of a rapidly growing business and an intelligent foresight as to its future importance, as estimated

in the light of past experience. The enterprise displayed and the faith in the stability of commercial floriculture as demonstrated in a growing establishment such as the Waban Rose Conservatories, a wholesale mart such as Welch Bros., or a retail store such as Breitmeyer's, should be a matter of general congratulation and pride. Every florist, however obscure he may be today, may hold his head a little higher and push out his chest a trifle farther in the consciousness that he is in a business which can boast such evidences of growing commercial greatness.

Again the chrysanthemum

A recent writer in HORTICULTURE alluded to the apparent revival of public interest in the chrysanthemum and the consequently improved prospects for this old favorite as an exhibition feature and a commercial flower. We have, however, never yet in this country attained to anything in commercial chrysanthemum culture to compare with the extent of this industry in England as touched upon in our letter from Mr. C. Harman Payne which appears in this issue. Further, our growers are much more conservative in taking up new varieties. A new claimant must go through quite an ordeal here and must show forth its virtues in unmistakable measure before the average grower will yield. This caution has considerable foundation in past experience and, while its observance leaves little of the zest of chance and novelty, yet it is a safe proposition that one good chrysanthemum which shows distinct advancement, added to the list each year, will afford more real satisfaction than a hundred meretricious novelties with ambitious titles but glaring defects. That there is room for good additions to the early flowering section is well shown by the condition of our cut-flower markets generally during the past two weeks. The dearth of good material to fill in the gap between the last cut of asters and the first cut of chrysanthemums has been felt with more than usual severity this season. It may not be so pronounced another year for it is in part a question of weather and, for some reason, the early chrysanthemums seem to have loitered on the way this year but that the market is in a very receptive mood for sterling additions to the early flowering classes for plant as well as cut flower consumption is quite evident.

Arboretum Notes

One of the most distinct novelties at the Arnold Arboretum is *Ailanthus Vilmoriniana*. From a 2-inch plant last spring it has now grown to a height of 5 feet. The leaves are 4 to 5 feet long and produce a fine tropical effect. Its hardiness has not yet been determined, however. Mr. Dawson has a number of young cedars of Lebanon raised from seed gathered in the highest and coldest altitudes at which this tree can be found and is in hopes of securing in this way forms that will be reliably hardy as far north as Boston.

The true *Catalpa Bungei* as seen at the Arnold Arboretum is a very different tree from the one seen in the gardens and usually sold at nurseries under that name. The latter is only a dwarf form of *C. Kämpferi*.

Tamarix Pallasii var. *Moladvicea* is a great advance over the older, well-known tamarix of the gardens. The flowers are finer but its best quality is that it is a continuous bloomer up to the end of the season. This should make it very valuable to the commercial florist.

A GREAT FRUIT SHOW.

The annual fruit and vegetable show of the Massachusetts Horticultural Society held on October 10-11 was the first exhibition devoted exclusively to fruit and vegetables held for some years and a very wide interest was shown in the matter for the entries were larger and the specimens finer than any we have seen in the past. With the exception of the American Pomological Society's exhibition held here in 1903 there has never been such a variety of fruit shown in the hall.

Over seventy-five varieties of apples and thirty-five of pears were on the tables. Particularly interesting were the large entries in the classes for any other variety of apples not specified in the schedule; in one there were thirty-four entries and eighteen different varieties, in the other thirty entries and sixteen varieties. The same class in pears attracted a large showing there being twenty-eight entries with sixteen varieties. The total number of prizes in these classes were eleven and the total entries were ninety-two so it seemed as if the greatest contests were waged about the unlisted varieties. The hot house fruit was noticeable by its absence and it seems a waste of time and space to place them on our schedule for while both medals and money prizes were offered the entries were not forthcoming.

The exhibits from the experiment stations of Massachusetts, Maine and Rhode Island were very interesting and instructive, as showing what our experiment stations are doing in fruit culture. This interchanging of exhibits among experiment stations, horticultural societies and growers should have more encouragement as it is often the only means by which new and valuable varieties of fruit are brought to the notice of the public. Such an exhibition as the one just past which was not entirely local in its scope, does more to stimulate horticulture than many of our smaller exhibitions which are largely attended by growers within 25 miles of Boston.

More than twelve varieties of apples and eight of pears were brought to the exhibition to be named thus showing an added interest in fruit growing for no doubt many of these people who brought them had had this fruit growing on these places for some time and had never taken enough interest in it to even find out the name.

A very interesting feature of the exhibition was a collection of apples from the State Board of Agriculture of North Carolina. This contained about fifteen very well grown varieties which in size and color went way ahead of many of our northern apples. One thing particularly noted was the bright and smooth skin of the pears from Dorchester and Roxbury district; it seems as if soil conditions must be very good for pears in those selections. A very fine collection of peaches which for this season of the year could not be surpassed were on exhibition. Plums and quinces were also well competed for.

A great variety of grapes were shown there being one collection of fourteen varieties which showed almost every color and form of bunch in which our native grapes are possible.

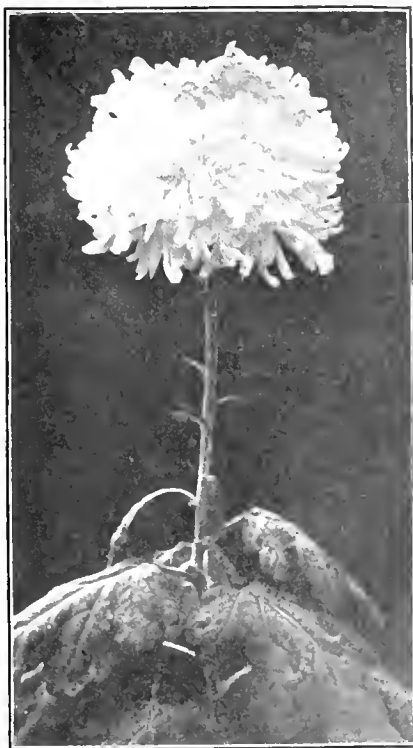
The exhibit from the Massachusetts Agricultural College was largely a collection of apples and pears grown on

dwarf trees. This method of growing is increasing in favor and ought to be more generally used, for as shown by this exhibit, very fine fruit can be grown on these dwarf trees, and in a much smaller space and in less time than with standard trees.

It is to be hoped that this and all other exhibitions of the Massachusetts Horticultural Society will not only bring out large and fine displays of fruit but that they will awaken a new interest in this great branch of horticulture and stimulate growers to compete not merely for the money prize which is offered but rather for the honor which a prize awarded by this society means. The fruit committee wish to thank all exhibitors who helped make this one of the finest exhibitions in the history of the society.

WILFRID WHEELER

CHRYSANTHEMUM OCTOBER FROST.



This new early chrysanthemum has been welcomed with much cordiality by the trade and is looked upon as a distinct advance in the early white section. Messrs. Nathan Smith & Son, the introducers, advise the selection of early buds as they produce larger and fuller flowers than the late ones do.

OUR FRONTISPIECE.

The carnation Alma Ward which forms the subject of our frontispiece is one of the best if not the best of the productions of Mr. C. W. Ward. The typical form is white suffused with a soft flush of pink but Mr. Ward has selected a pure white form and expects to fix two distinct types. The picture shows the flowers considerably reduced in size.

VISITORS IN BOSTON.

James McHutchison, New York, S. S. Skidelsky, Philadelphia.

TO GET RID OF "FALL GRASS."

of HORTICULTURE: "The story relating the little story relating the tale concerning the man who used a lawnmower, to rid lawns of 'fall grass.'" I remember reading that story of a few years ago and thought it would be a very easy way to get rid of it.

We are situated on the borders of Long Island Sound and right here the land is very sandy, with gravel subsoil; very hot and dry in summer, which seems to be very favorable to "fall grass" after August. Through the month of September we find scarcely any other grass. The above story repeated itself many times in my mind. So this spring we started the automobile lawn mower. There's no doubt it compacted the soil, for our lawns are as hard as the macadamized roads, but we have the largest crop of fall grass I ever saw, this season. Mr. Hatfield certainly has the only practical method of destroying it, "pulling it out by hand," but it would take an army to do it here.

S. J. TREPPESS.

Glen Cove, L. I., N. Y.

NEWS NOTES.

S. J. Gibbs of Carnegie, Pa., has filed a petition in bankruptcy; liabilities, \$2714; assets, \$234.

The Metairie Ridge Nursery opened a branch store at 141 Carondelet street, New Orleans, La., on October 6.

W. H. Ritter of Pitchburg, Mass., announces his opening of a new flower store at 70 Main street on October 16.

The florist store of H. A. Keser at El Paso, Texas, was destroyed by fire on October 5. The loss is estimated at \$500.

C. D. Mills of Jacksonville, Fla., is completing a branch greenhouse establishment in the fashionable residential suburb of the city which he expects to open November first.

The Park Board of Baltimore, Md., have decided to return to the plan of holding flower shows in the park greenhouses in the spring and fall, although the arrangement cannot be entered upon until next fall.

H. M. Robinson & Co., finding their quarters at 8 and 10 Province street, Boston, too restricted have added the large store opposite, at No. 15 and will extend their business by the addition of a cut flower department.

PERSONAL.

Visitors in New York last week: F. Gower Waterer, Bagshot, Eng.

John Donohue has been appointed gardener on the estate of Morris K. Lipp at Lenox, Mass., to succeed his father, the late P. J. Donohue.

Thomas E. Brown of Detroit, Mich., who fell from a scaffold recently while building a new greenhouse, is now able to get about with the aid of a crutch.

OBITUARY.

Paul Goebel, for the past twenty years engaged in the florist business in Grand Rapids, Mich., died on October 6, aged 72. A widow and four sons survive him.

NEWS OF THE CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

A very large and attentive audience greeted Mr. J. B. Vebie of the Lord & Burnham Company, the essayist of the evening at the October meeting of this club. Mr. Vebie's very practical paper on greenhouse construction appears on another page of this issue and will well repay a careful perusal. After its presentation the essayist was plying with a series of questions by the members, a summary of which with the answers given is herewith recorded. What are the advantages or disadvantages of the "King construction?" There is an advantage in light on account of the absence of posts and the trussed roof is very strong so long as nothing gives way, but one break is apt to be disastrous for the entire series. Is the wooden or the iron frame house the warmer? No apparent difference. Here M. A. Patten stated that he found the iron house the cooler of the two. Which style of house shows greatest percentage of glass breakage? No material difference. Mr. Patten found 50 per cent less breakage on iron house, attributable to the swelling and shrinking of the wood. What is the comparative durability of the iron foot piece and the cypress post? Cast iron is practically indestructible in the ground; cypress is good for 15 years; wrought iron is no better than cypress, unless galvanized or set in concrete. What is the reasonable limit in width of house? Forty feet; nothing is saved by building wider as trussing adds to cost. What are the limits of efficiency in height? With ordinary pitch of roof no house will be too high. Alexander Montgomery endorsed this and said there was everything in favor of the high house; more easy to heat and more even in temperature. What is the limit to the length of a house? The length of the field. What difference in growing qualities of curvilinear or plain pitch roof house? Very slight if any. Is iron today as good as that used twenty years ago? Decidedly not; very little wrought iron is on the market now and must take steel. Is concrete wall or brick with air space the best. In concrete the air space promotes dryness and is preferable; brick is better built solid. What is the best style of ventilation? Continuous ventilation on both sides of the ridge. How should it open? Hinged at ridge and open at header is preferable. Mr. Montgomery interjected that for a low house, say up to 14 ft. high—it is much easier to keep down mellow if the ventilator opens at ridge, with hinge at header. Air circulation is fatal to mellow; dead air promotes it. Mr. Vebie was accorded a hearty vote of thanks.

Mr. Pettigrew reported for the committee on landscape study classes that a prospectus would be issued in a few days giving full details and that a competent instructor had been located.

On the exhibition tables were exhibits which were examined and awards made as follows by the judges: Lars Anderson, D. Finlayson, gardener, two fine specimens of *Dendro-*

bium Phalaenopsis, report of merit for superior culture. H. A. Stevens, Publisher and a white seedling carnation, honorable mention for each. J. Chase, specimen pot plant of *Chrysanthemum Polly Rose*, vote of thanks. W. D. Nickerson, three specimen trained zonal geraniums, first and second special prizes; Mr. Allen, Mr. Auburn cemetery, dwarf hardy phlox, six inches in height, in full bloom since last July.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The Nassau County (N. Y.) Horticultural Society held its regular monthly meeting at the usual place on Wednesday, October 10th. The attendance was unusually large. President Harrison occupied the chair. Six new members were elected to active membership. The show room looked a blaze of color with the monthly exhibit of flowers. In the point class H. F. Myers scored 93 2-3 points with carnations and fruits; J. F. Johnston, 86 2-3 with vase of Countess of Loudale dahlias; F. Mense, 81 2-3 with bunch of single violets; S. J. Trepass, 81 1-3 with vase of single dahlias. G. F. Myer was awarded the prize for the best collection of outdoor flowers. The prize for the best collection of six varieties of outdoor flowers was won by S. J. Trepass. Other members showing in this class were H. Mack and A. Jancke.

This is the last meeting before the society's annual show to be held on October 31st and November 1st, so that the chief business was the preparation for the show. Special prizes are coming in. Stump and Walter Co. give \$10 for 100 single and 100 double violets; Rickards Bros., \$10 for table of foliage plants, 12x3 feet pots not to exceed 6 inches; society's prize, \$15 for best collection of carnations for commercial members. Certificates of merit will be awarded for meritorious seedlings. Mrs. Paul Dana gives books for best 10 chrysanthemums, distinct varieties.

JOHN F. JOHNSTON

ST. LOUIS FLORISTS' CLUB.

A meeting of this club was held on Thursday afternoon of the past week. Twenty were in attendance and all the newly elected officers in their places. Prof. H. C. Irish presiding. The article in the trade papers regarding Councilman Rolfe's bill to stop crop pulling was discussed, and the matter laid over until the next meeting. It was decided to send notices to all florists outside of the club and to the press when anything special was going on. Henry Brann led a discussion on growing bulbs as it is done in Holland, followed by President Irish and F. J. Fillmore. It was voted to oppose holding the S. A. E. convention in November. The questions from the box brought out animated discussions.

The next meeting will be held on Nov. 8 at 2 o'clock. It will be the annual chrysanthemum show and the trustees will be in charge; \$50 in prizes will be offered. A. J. Bentzen will lead a discussion on cymbidiums and Harry Young on growing poinsettias in pans, and cut flowers.

WORCESTER COUNTY HORTICULTURAL SOCIETY.

The Worcester County Horticultural Society held their annual fall exhibition of fruit and vegetables on Thursday, Oct. 11, and the display of fruit was excellent, with the exception of pears, which showed somewhat of a decline, traceable to the effects of the San Jose scale, which is working havoc among the fruit trees of this vicinity. Sheldon and Bose were the principal pears exhibited. The display of apples was unusually good, there being 33 entries of Baldwins. A few nice peaches were shown, and George McWilliam, gardener for G. Marston Whitin, had a very nice display of hothouse grapes.

In the vegetables, Chas. Greenwood exhibited 6 golden Hubbard squashes weighing 11 lbs. each that were fine specimens. E. M. Bruce had leeks of mammoth size. At this exhibition there is no special call for flowers, but Mr. McWilliam staged orchids, Dipladenias, and Lapagerias. M. E. Kelsey showed dahlias of unusual excellence and perfection. A. W. Bixon showed tuberous begonias of mammoth size.

The annual dinner was served at 12:30, followed by speeches from prominent horticulturists, among whom was Sec. T. K. Bruner of the state board of agriculture of North Carolina. This man exhibited some fine specimens of apples grown in his State.

MASSACHUSETTS HORTICULTURAL SOCIETY.

Report of the Nominating Committee, officers nominated for 1907: President, Stephen M. Weld, of Dedham; vice-president (for two years), Charles S. Sargent, of Brookline; trustees (for three years), William N. Craig, of North Easton, Arthur F. Estabrook of Boston, John K. M. L. Fargubar of Boston, Arthur D. Hill of Boston; nominating committee, Arthur F. Estabrook of Boston, Warren H. Henshis of Belmont, William Nicholson of Frammingham, Loring Underwood of Belmont, Edward B. Wilder of Boston.

Signed: James H. Bowditch, Robert Cameron, T. D. Hatfield, Charles W. Parker, William H. Spooner, nominating committee 1906.

DETROIT FLORIST CLUB.

On Wednesday, October 3, the club had its first meeting in the new hall which the Michigan Cut Flower Exchange, with proverbial liberality, donated for its use. The new quarters are commodious, and the opportunity of having adjoining space for exhibits, etc., which has not been possible in the past, is much appreciated. With President Dilger at the helm a prosperous season is assured.

A. Pautke brought to the meeting a chrysanthemum bug, which selects leaves as its habitat, burrowing itself into the leaf from the edge. It cannot, therefore, be detected or attacked until its destructive work is accomplished and shows itself on the leaf.

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ONCIDIUM, \$2.50 and \$3.00
FORMOSUM (white), 40c.
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CHRYSANTHEMUMS:
 Medium, \$1.50 and \$2.00
 Fancy, \$3.00 and \$4.00

VALLEY, \$3.00 and \$4.00

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AMERICAN CIVIC ASSOCIATION.

The annual meeting of the American Civic Association will be held in Milwaukee, October 24, 25 and 26, as the guests of the Mayor of Milwaukee, the Citizens' Business League of Milwaukee, the Milwaukee Branch of the Women's Outdoor Art League of the American Civic Association, and the Board of Park Commissioners of Milwaukee.

All the members of the association are earnestly urged to be present at the meeting, which promises to surpass even the Cleveland meeting in helpfulness and inspiration. A comprehensive and interesting program has been arranged. Extended opportunities will also be provided for the interchange of views and for a discussion of ways and means, in relation to the work of the association.

The secretary will greatly appreciate it if you will notify him as long in advance as possible of your intention to be present, so that programs and other information may be sent to you.

CLINTON ROGERS WOODRUFF,
 Secretary.

North American Building, Phila., Pa.

MORRIS CO. (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

Final arrangements for the coming flower show took up most of the time of the twenty-six members present at the last meeting. Lots of details had to be attended to; each member took his quota of tickets to sell and his bundle of posters to put up. We are quite sure, from present outlook, to have the goods on hand, and we are determined to bring the people to see them. The show is on November 1st and 2nd. Two new members were elected and four more proposed. Our judges are to come from Lenox, Mass., this time.

E. R.

THE LAKE GENEVA GARDENERS' AND FOREMEN'S ASSOCIATION.

The annual chrysanthemum exhibition of the Lake Geneva Gardeners' and Foremen's Association will be held at Lake Geneva, Wis., Nov. 9, 10.

A. JOHNSON, Sec.

Miss Bessie Bennett, assistant librarian of the Art Institute, has designed a special medal to be used as a reward for prize winners in the coming Chicago Flower Show. The die will be cast in Boston at an expense of \$500. The show will open November 6 in the Coliseum.—*San Francisco Examiner.*

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Seed Trade Topics

In last week's Seed Trade Topics an error was made in the following sentence: "In proportion to the volume of seed business done, Canada uses fifty pounds of Swedes and Mangelts to one used in the United States, and the quantity of the dairy products of the two countries is in about the same ratio."

The word quantity should be "quality." Quite a difference in meaning.

The lithographers' strike is greatly embarrassing the canners and seedmen. The former are unable to get labels for their cans, and thus hundreds of car loads of canned goods are held up at this time when the jobbers want them, and when there is a keen demand from consumers. If long continued, this state of affairs is likely to result in many countermands from both jobbers and retailers, to the disappointment and loss of the canners. Those seedsmen who issue large editions of illustrated catalogues, are bound to be seriously inconvenienced if they do not suffer heavy loss. Those who sell packet seeds, either outright or on commission, are greatly worried over the inability of the printer to deliver their bags, and particularly where colored lithograph bags are used. This will cause delay in getting the seeds into the hands of the retail country merchants, consequent falling off in sales, and loss to the seedsmen. Just how serious these conditions may become, will depend mainly on the duration of the strike, or at least on the length of time required by the employing lithographers to fully man their plants.

With reference to strikes, it is a fact that neither employer nor employee seems to regard the great neutral consuming public as having any rights which either side is under obligation to consider. Now if this great neutral public could only act in unison, and be led by wise and honest men, they could compel both sides to show a decent regard for their rights, and obstinate employer and reckless striker would not so lightly paralyze industry, causing loss and often ruin to disinterested persons.

Onion seed seems to be in the limelight just now, and some very extravagant predictions are being made as to probable prices. One very prominent seedsmen thinks wholesale prices should be about as follows: Yellow Globe Danvers, \$3.00; Southport Yellow Globe, \$3.25; Southport Red Globe, \$3.00; Southport White Globe, \$3.50; Yellow Strasburg, \$2.50; Yellow Flat Danvers, \$2.50; Prizetaker, \$2.50; Red Wethersfield and Early Flat Red, \$2.00. Now while these prices are possible, they are not probable. As the wind is tempered to the shorn lamb, so will the demand for onion seed be regulated by the supply and the price.

The fact is well known to seedsmen that a high price for onions and onion sets usually stimulates the demand for seed, while a low price checks demand. Now it so happens that the crop of onions this year is the largest ever grown, according to the most reliable statistics obtainable, exceeding last year's heavy crop by three-quarters of a million bushels, while the onion set crop, though not a bumper,



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ENGLISH MILLTRACK, -	.75	\$1.50	\$6.00	\$55.00
PURE CULTURE, -	-	Per Doz. Bricks	25 Bricks	50 Bricks
		\$1.80	\$3.75	\$7.00

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CYCLAMEN SEED MICHELL'S GIANT STRAIN

	100 Seeds	1000 Seeds
GIANT WHITE.....	75c	\$6.00
GIANT PINK.....	75c	8.00
GIANT RED.....	75c	6.00
GIANT WHITE with RED EYE.....	75c	6.00
GIANT MIXED.....	60c	5.00

HENRY F. MICHELL CO.,

Asparagus Plumosus Nanus

NEW CROP GREENHOUSE GROWN

100 Seeds.....	60c
500 ".....	\$2.25
1000 ".....	4.00

Our latest Fall Catalogue of Bulbs, Seeds and Seasonable Supplies now ready.

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is a good average one, and unless both onions and onion sets rot badly, prices next winter and spring are likely to be very low, particularly on large onions, and with the high prices of seeds now prevailing, the demand is certain to be greatly restricted. No doubt these facts will have due weight with seedsmen, and prevent them from making prohibitive prices.

It seems that some varieties of French grown radish seed are procurable at a price. Scarlet Globe and white tipped scarlet turnip can be bought at about 30c. f. o. b. New York or Boston, much of the latter being year old seed, and not up to recognized standards of germination. Other varieties can be attained at about the same or somewhat lower prices, but in rather restricted quantities.

Josiah Young of Troy, N. Y., formerly Young & Halstead, is to devote his attention to developing the catalogue and retail trade, and to this end is closing out his heavy agricultural implements, dairy supplies, etc. Mr. Young has a very able assistant in Mr. P. K. Noct, and the two make a team warranted to make things go but with all deference, it is suggested that if they wish to develop local retail trade they should seek another location, as local advertising benefits their competitors nearly as much as it does them. For catalogue trade they should try an ad. in HORTICULTURE.

NEW SWEET PEAS.

Harking back to the sweet pea review in your issue of Aug. 11th, 1906, it is interesting to note in recent advices from London the offering of four new sports from Gladys Unwin, namely: Nora Unwin, a pure white; Mrs. Alfred Watkins, a pale pink; Frank Dolby, same shade of blue as Lady Grisel Hamilton but larger than that fine variety and E. J. Castle, carmine rose with salmon shadings. A scarlet and a primrose in the forcing

class (or Christmas flowering dwarfs) are also being offered. All these and others can doubtless be procured now or very soon from the leading seed houses on this side. G. C. W.

CATALOGUES RECEIVED.

C. S. Harrison, York, Neb. Price list of paeonies and perennials.

Thadens N. Yates & Co., Philadelphia. Trade list of deciduous and evergreen trees, shrubs and vines.

Ludvig Mosbaek, Onarga, Ill. Descriptive list of cannas and surplus list of hardy flowering shrubs and herbaceous perennials.

Vincent Lebreton, Angers, France; McHutchinson & Co., New York, agents. Wholesale trade list of nursery stock for season of 1906-7.

F. E. Conine Nursery Co., Stratford, Conn. Catalogue of fruit and ornamental trees and shrubs, hardy perennials, etc. Many illustrations.

A call has been issued for a meeting to organize a horticultural society in Manitowoc, Wis.

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BOXWOODS, All Sizes

From midgets up to 6 1/2 ft. pyramids. All exceptionally fine. Write for prices.

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WE now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sun-scalds or reverts to the green; flowers single, very large, satiny lavender; blooms during four months; prices on application. Orders booked now. Catalogues free.

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have the finest stock of recognized Hardy Rhododendrons, Azaleas, Andromedas, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

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To clean up a large quarter we offer for a time a splendid thrifty lot of

	Per 100	Per 1000
Nice little clumps.....	\$ 2 50	\$12 00
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Extra heavy clumps.....	10.00	70.00

Cash with order. Samples at 10¢ rate. Packing free. Order NOW for Fall Delivery while the weather permits freight shipments.

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CARNATIONS

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Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. 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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WHOLESALE FLOWER MARKETS
TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO October 15	ST. LOUIS September 30	PHILA. October 16	BOSTON October 11
ROSES				
Am. Beauty, Fan. & Sp.	30.00 to 35.00	15.00 to 20.00	20.00 to 25.00	25.00 to 35.00
" Extra.....	15.00 to 25.00	10.00 to 12.50	15.00 to 20.00	15.00 to 20.00
" No. 1.....	10.00 to 12.00	6.00 to 8.00	10.00 to 12.50	8.00 to 12.00
" Lower grades.....	4.00 to 8.00	3.00 to 5.00	6.00 to 8.00	4.00 to 8.00
Bride & "Maid—Fan. & Sp.....	4.00 to 6.00	3.00 to 4.00	6.00 to 8.00	4.00 to 8.00
Golden Gate, Fancy.....	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00	1.00 to 4.00
Ordinary.....	4.00 to 6.00	3.00 to 4.00	6.00 to 8.00	3.00 to 8.00
Liberty, Fancy.....	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00	1.00 to 4.00
Ordinary.....	5.00 to 6.00	3.00 to 5.00	6.00 to 8.00	3.00 to 8.00
Richmond, Fancy.....	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00	1.00 to 3.00
Ordinary.....	5.00 to 6.00	3.00 to 5.00	6.00 to 8.00	3.00 to 8.00
Kaiserin, Carnot, Chateau, Fancy.....	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00	1.00 to 3.00
Ordinary.....	5.00 to 6.00	3.00 to 4.00	6.00 to 8.00	3.00 to 8.00
Carnations	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00	1.00 to 3.00
CARNATIONS				
Fancy.....	1.00 to 2.00	1.00 to 1.50	2.00 to 3.00	1.50 to 3.00
Ordinary.....	1.00 to 1.50	1.00 to 1.50	1.50 to 2.00	.75 to 1.50
MISCELLANEOUS				
Chrysanthemums.....	15.00 to 25.00	..... to	20.00 to 30.00	8.00 to 25.00
Cattleyas.....	50.00 to 60.00	..... to	40.00 to 50.00	40.00 to 50.00
Lilies.....	12.50 to 15.00	..... to	15.00 to 20.00	8.00 to 12.00
Violets.....	..... to .....	..... to .....	..... to .....	.35 to .60
Lily of the Valley.....	3.00 to 4.00	..... to	3.00 to 4.00	3.00 to 5.00
Dahlias.....	2.00 to 5.00	..... to	1.50 to 3.00	..... to
Tuberose.....	4.00 to 6.00	..... to	3.00 to .....	..... to .50
Mignonette.....	2.00 to .....	..... to .....	..... to	1.00 to 2.00
Adiantum Cuneatum.....	.75 to 1.00	1.00 to 1.25	1.00 to .....	.50 to 1.00
Croweanum.....	1.00 to 1.50	..... to	1.50 to	1.00 to 1.50
Smilax.....	12.50 to .....	..... to	12.50 to 15.00	12.00 to 16.00
Asparagus Plumosus, strings.....	5.00 to 50.00	25.00 to 40.00	35.00 to 50.00 to 50.00
" & Sprengerii bunches.....	35.00 to 50.00	25.00 to 50.00	35.00 to 50.00	20.00 to 50.00

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37-39 Randolph Street, CHICAGO.
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 A discount for cash with order.
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CUT FLOWER MARKET REPORTS

BOSTON Business in wholesale circles is phenomenally good for the season. The activity is wide spread and shipping orders are consequently numerous. The demand for carnations is a noticeable feature on all sides. Wonder whether any thoughtful carnation grower will find a way to be on the spot next year with a crop to fit in between the aster and the chrysanthemum. The latter are coming along in a rather moderate way but are of excellent quality for earlies. Violets are now fairly started in. Roses are improving. Lily of the valley is holding its own. *Cattleya labiata*, *Oncidium varicosum* and a few *Dendrobium Phalaenopsis* are in good supply.

BUFFALO Genuine winter weather prevailed the past week. Dark and gloomy days with snow and sleet affected the green-houses to such an extent that hardly anything could be obtained. The severe storm caused much damage, and telephone and telegraph service was out of the question. Many had a hard struggle to fill orders that had been taken. Floral work was overflowing the latter part of the week which made it worse. Hardly any outdoor stock was obtainable on account of the severe frost. *Dahlia* shipments from the East helped considerable, while lily of the valley and other stock were bought at sight. *Chrysanthemums* made their first appearance but only few were to be had, prices holding high. October weddings and other functions are at their height and the wholesaler is cleaned up early in the day. *Adiantum* and other green goods can be had in abundant supply.

CINCINNATI. A severe frost last week put an end to the few outdoor flowers. There had been little except *cosmos* and *dahlias* but we would have liked to have them hold out for another week as they added to the variety, which at present is very meagre. Roses are coming in quite plentifully and are selling well in consequence of the shortage of other stock. *Chrysanthemums* are becoming more abundant. *Glory of Pacific* and *Estelle* predominate and seem to be the grower's favorites for early. The numerous weddings have caused quite a run on lily of the valley and *Beauties*; carnations are still scarce and are slow in making any noticeable improvement. The fall trade has opened up well.

COLUMBUS In the afternoon last Wednesday it snowed, and in the evening the glass passed the freezing point, going during the night as low as 27 deg.; so

what little outdoor stock we have been having has come to an end. Circumstances the past week have not been over plenty; telegrams to Chicago and other large markets bring the answer "none to spare." The exhibitors of the American Street and Interurban Railway Association have placed orders aggregating thousands and thousands of roses and carnations for delivery every day of this week, and could we have obtained more good stock we could easily have sold more. Sales of *chrysanthemums* are increasing daily. There are quite a few violets in the market, both *Princess of Wales* and *Marie Louise*, but they lack good color as yet. I must say a word as to the *American Beauties* we have been receiving the past week, as they have certainly been of exceptionally fine color for so early in the season.

DETROIT Business is starting up in good shape, but the lack of stock of all kinds is a great drawback, and the recent severe cold spell has aggravated the situation. Outdoor stock is practically gone; *chrysanthemums* and carnations are still too few to be depended upon. Roses, particularly *La Detroit*, are coming with longer stems and are larger in size. With a little good weather there will be a great improvement.

LOUISVILLE The conditions of business last week were about all one could expect, although some varieties of stock were very scarce at times. Carnations had an unusually good run and were hard to get at times. Roses were very good in quality and supply, and had a very excellent demand. Violets, lily of the valley, lilies, etc., can be had in moderate quantities, and find a very heavy demand. Other stock and greens are in satisfactory supply.

NEW YORK Better growing season and the incoming *chrysanthemums* are having their effect on the flower market, and the stringency of the past two weeks is now disappearing, there being a better general supply and very much increased supply of *chrysanthemums*. *Cattleya labiata* is in its glory, and with *vandas*, *oncidiums*, *Dendrobium formosum* and *D. Phalaenopsis* a full supply of orchids for October weddings is assured.

PHILADELPHIA Market here very good the past week. The chief feature was the big increase in receipts of *chrysanthemums*, but prices kept pretty firm notwithstanding. *Beauties* were affected somewhat by this influx and dragged a bit. Other roses, especially the smaller sizes, were also slow. Carnations were more plentiful, but still keep high in price considering the quality. *Dahlias* are over. The frost of last week cleared up other outside stock. Good double violets are now to be had in quantity and the singles are also very much improved.

ST. PAUL AND TWIN CITIES The flora of the first noticeably touched by frost on Oct. 5. Since that time business has been good. There are plenty of good roses, but carnations are very scarce and what are to be had are rather poor. Violets have not yet made a strong appearance.

Dudley & Sons' new store at Parkersburg, W. Va., which is the most beautiful establishment of its kind in that vicinity in its modern and artistic appointments, was thrown open to the public on the evening of October 8, and visited by hundreds of people.




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 TELEPHONE 167
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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Oct. 13 1906		First Half of Week beginning Oct 15 1906			Last Half of Week ending Oct. 13 1906		First Half of Week beginning Oct. 15 1906	
Roses									
Am. Beauty, fan and sp.	25.00	to 35.00	25.00	to 35.00	Carnations, Fancy	3.00	to 5.00	3.00	to 5.00
" extra.	15.00	to 20.00	15.00	to 20.00	Carnations, Ordinary	1.00	to 2.00	1.00	to 2.00
" No. 1.	8.00	to 10.00	8.00	to 10.00	Chrysanthemums	10.00	to 40.00	10.00	to 40.00
" Lower grades	1.00	to 5.00	1.00	to 5.00	Cattleyas	35.00	to 50.00	35.00	to 50.00
Bride & 'Maid, fan and sp.	4.00	to 8.00	4.00	to 8.00	Lilies	12.00	to 15.00	12.00	to 15.00
" Ordinary	1.00	to 2.00	1.00	to 2.00	Lily of the Valley	3.00	to 5.00	3.00	to 5.00
Golden Gate, fancy.	4.00	to 8.00	4.00	to 8.00	Anthias	.....	.....	.....	.....
" ordinary	1.00	to 2.00	1.00	to 2.00	Tuberose	.....	.....	.....	.....
Liberty, fancy	4.00	to 8.00	4.00	to 8.00	Mignonette	.....	to .50	.....	to .50
" ordinary	1.00	to 2.00	1.00	to 2.00	Adiantum Cuneatum	.25	to .50	.25	to .50
Richmond, fancy	4.00	to 8.00	4.00	to 8.00	" Crownatum	1.00	to 1.50	1.00	to 1.50
" ordinary	1.00	to 2.00	1.00	to 2.00	Smilax	8.00	to 12.00	8.00	to 12.00
Kaenn, Carnot, Chateau, fancy.	4.00	to 8.00	4.00	to 8.00	Asparagus Plumosus	10.00	to 25.00	10.00	to 25.00
" " ordinary	2.00	to 3.00	2.00	to 3.00	" " & Sprengeri, bunches	10.00	to 25.00	10.00	to 25.00

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Fresh Northern, \$1.00 per 1000.

LYRATA, the best substitute for Smilax, \$7.00 per case.

Headquarters for all FLORISTS' SUPPLIES. Wire Designs, Cut Wire, Letters, Immortelles, Cycas Leaves, Wheat Sheaves, Ribbons, Corrugated Boxes, etc.

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HENRY M. ROBINSON & Co., 8 & 10 Province St., Boston, Mass. L. D. Telephone, Main, 2613.



WHOLESALE FLOWER MARKETS. PER 100. TO DEALERS ONLY.

	CINCINNATI October 16	DETROIT October 16	BUFFALO October 15	PITTSBURG October 15
ROSES				
Am. Beauty, Eco. and Sp.	30.00 to 40.00	30.00 to 40.00	20.00 to 25.00	35.00 to 40.00
" Extra	20.00 to 25.00	20.00 to 25.00	15.00 to 20.00	20.00 to 25.00
" No. 1	15.00 to 20.00	20.00 to 25.00	10.00 to 15.00	10.00 to 15.00
" Lower grade	5.00 to 10.00	10.00 to 15.00	3.00 to 10.00	3.00 to 7.50
Bride and 'Maid-Fan, and Sp.	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Golden Gate, Fancy	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Liberty, Fancy	5.00 to 6.00	6.00 to 8.00	7.00 to 8.00	6.00 to 8.00
Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Richmond, Fancy	5.00 to 6.00	6.00 to 8.00	7.00 to 8.00	6.00 to 8.00
Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Kaiserio, Carnot. Chateaux, Fancy.	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
CARNATIONS				
Fancy	1.50 to 2.00	2.50 to 3.00	2.00 to 2.50	3.00 to 3.00
Ordinary	.75 to 1.00	1.50 to 2.00	1.00 to 1.50	1.00 to 2.00
MISCELLANEOUS				
Chrysanthemums	15.00 to 25.00	12.00 to 20.00	20.00 to 25.00	10.00 to 25.00
Cattleyas	..... to 50.00	..... to 50.00	..... to 50.00	..... to 50.00
Lilies	8.00 to 10.00	12.50 to 15.00	5.00 to 15.00	20.00 to 25.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Dahlias	1.00 to 2.00	2.00 to 3.00	1.00 to 3.00	1.00 to 3.00
Tuberose	..... to 3.00	..... to 4.00	..... to 4.00	..... to 4.00
Mignonette	..... to .50	..... to 1.00	..... to 1.50	..... to 1.00
Adiantum Cuneatum	..... to 1.00	..... to 2.00	..... to 1.00	..... to 1.00
" Croweanum	..... to 2.00	..... to 3.00	..... to 1.50	..... to 1.50
Smilax	10.00 to 12.50	12.50 to 15.00	12.50 to 15.00	12.50 to 15.00
Asparagus Plumosus, strigis	40.00 to 50.00	50.00 to 50.00	40.00 to 50.00	25.00 to 50.00
" & Sprengeri, bunches to 35.00 to 30.00 to 35.00 to 50.00

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Henry A. Dreer, Philadelphia. For page see List of Advertisers.
 Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.
 Adiantum Farleyense, 2 1/2 in. strong stuff, for growing on, or for Fern dish, \$15.00 per 100; \$140.00 per 1,000. J. A. Peterson, Westwood, Cincinnati, O.

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ASPARAGUS.

James Crawshaw, 403 Plainfield St., Providence, R. I. Asparagus Crawshawii. For page see List of Advertisers.
 Asparagus Sprengerii, large, field grown clumps, \$8.00 100. H. W. Vose, Hyde Park, Mass.
 Asparagus plumosus nanus and Sprengerii, 2 1/2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.
 Asparagus plumosus and Sprengerii, fine 2 in. stock, \$2.00 100; \$18.00 1000. Cash. Lewis Ullrich, Tiffin, Ohio.
 Asparagus Plumosa, 2 in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erle Floral Co., Erie, Pa., or Wm. F. Kastling, 285 Ellicott St., Buffalo, N. Y.

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H. Rosenkranzer, 36 Clinton St., Newark, N. J.

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Yokohama Nurseries, 31 Barclay St., N. Y. For page see List of Advertisers.

BEGONIAS.

Henry A. Dreer, Philadelphia. Begonia Gloire de Lorraine.
 Begonias Gloire de Lorraine and Turnford Hall, propagated from leaf cuttings, \$15.00 100; \$140.00 1000; 4 in., \$40.00 100. Cash. J. A. Peterson, Westwood, Cincinnati, O.

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 S. S. Skidelsky, 824 N. 24th St., Phila. Rose Pink Enchantress. For page see List of Advertisers.
 M. J. Schaaf, Dansville, N. Y. Field Crown.

COLEUS.

Doctor Ross 2 1/2 in., \$1.00 dozen, cash. For other fancy and standard sorts write Rooney Bros., West Grove, Pa.

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Thornton Bros., Lawrence, Mass. For page see List of Advertisers.

CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.
 Welch Bros., 226 Devonshire St., Boston. For page see List of Advertisers.
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DAHLIAS.

David Herbert & Son, Atco, N. J. For page see List of Advertisers.
 Dahlia bulbs, Field Clumps, fifty varieties, cheap for cash or will exchange for what you have I can use. Prefer Roses, Phlox, Geraniums, etc. Geo. H. Walker, Dahlia Specialist, Brighton, Mass.

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FLORAL PHOTOGRAPHS.

- Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' FERTILIZER.

A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address The Barwell Agricultural Works, Waukegan, Ills. Established at Leicester, England in 1800.

- Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.
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- Young & Nugent, 42 W. 28 St., New York.
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- Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.
- Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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H. Rosenkranzer,
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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PRIMULAS.

Baudisch & Co., Union Hill, N. J.
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Primula Obs. Grandiflora. 4 in. pots.
\$6 per 100. Cash, please. A. Relyea & Son,
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Primula Obs. Grandiflora. 2 1/2 in. pots
\$3.00 per 100. Edward Allen, Plainfield,
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Baby Rambler.
H. Rosenkranzer,
36 Clinton St., Newark, N. J.
American Beauties, 2 in., \$55.00; 3 in.,
\$8.00 1000. Cash. J. Henry Bartram,
Landsdowne, Pa.
Roses. Baby Rambler, the strongest dor-
mant stock in the country, \$25.00 per 100;
2 1-2 in. pot plants, \$7.00 per 100, \$65.00
per 1000. Brown Bros. Co., Rochester,
N. Y.

SEEDS.

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Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and
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R. Kilbourn, Clinton, N. Y.
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SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales,
\$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash.
H. R. Akers, Chatsworth, N. J.

SPIRAEA.

Warnaar & Co., Sassenheim, Holland.
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STEAM TRAP.

E. Hippard, Youngstown, O.

TOMATO PLANTS.

Strong Tomato plants for forcing, \$2.00
per 100, cash. Rooney Bros., West Grove,
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Violet, Lady Campbell.
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Princess Violets, strong, field grown
plants \$45.00 per 1000, cash. George W.
Fuller, Cochituate, Mass.

Gov. Herrick Violet, No. 1 shape, 2 1/2 in.
pots, ready to bench, \$2.00 per doz., \$10.00
per 100, \$80.00 per 1000. W. A. Calhoun,
3226 Euclid Ave., East Cleveland, Ohio.

WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.

Boston.

N. F. McCarthy & Co., 84 Hawley St.,
Boston.
For page see List of Advertisers.

George A. Sutherland Co., 34 Hawley St.,
Boston.
For page see List of Advertisers.

Welch Bros., 226 Devonshire St., Boston.
For page see List of Advertisers.

Buffalo.

Wm. F. Kasting, 383-87 Elliott St., Buf-
falo, N. Y.
For page see List of Advertisers.

Chicago.

J. A. Rudlong, 37 Randolph St., Chicago.
For page see List of Advertisers.

Chas. W. McKellar, 51 Wabash Av., Chicago.
For page see List of Advertisers.

Peter Reinberg, 51 Wabash Av., Chicago.
For page see List of Advertisers.

Detroit.

Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Dilger, mgr.
For page see List of Advertisers.

New York.

J. K. Allen, 106 W. 28th St., New York.
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Wm. Stuart Allen Co., 53 W. 28th St.,
New York.
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J. S. Fenrich, 110 W. 28th St., New York.
For page see List of Advertisers.

Foré Bros., 48 West 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Gutman, 43 West 28th St.
For page see List of Advertisers.

E. C. Horan, 55 West 28th St., New York.
For page see List of Advertisers.

Philip F. Kessler, 55 W. 26th St., New York.
For page see List of Advertisers.

Julius Lang, 53 West 30th St., New York.
For page see List of Advertisers.

A. H. Langjahr, 55 W. 28th St., New York.
For page see List of Advertisers.

James McManus, 42 W. 28th St., New York.
For page see List of Advertisers.

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for Samples. E. A. BEAVEN, Evergreen, Ala.

WHOLESALE FLORISTS—Continued
New York.

- Chas. Millang, 50 West 29th St., New York.
For page see List of Advertisers.
- Frank Millang, 55-57 W. 26th St., New York.
For page see List of Advertisers.
- A. Moltz, 55-57 W. 26th St., New York.
For page see List of Advertisers.
- John I. Raynor, 49 W. 28th St., New York.
For page see List of Advertisers.
- W. F. Sheridan, 39 W. 28th St., New York.
For page see List of Advertisers.
- Traendly & Schenck, 44 W. 28th St., New York.
For page see List of Advertisers.
- Hicks & Crawhuck, Inc., 76 and 78 Court St., Brooklyn, N. Y.
For page see List of Advertisers.
- John Young, 51 W. 28th St., New York.
For page see List of Advertisers.

Philadelphia.

- W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
For page see List of Advertisers.
- Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 1608-18 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.
- Edward Reid, 1526 Banstead St., Philadelphia, Pa.
For page see List of Advertisers.

Pittsburg.

- J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
For page see List of Advertisers.
- Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
For page see List of Advertisers.

New Offers in This Issue.

ARTIFICIAL POINSETTIAS.

N. F. McCarthy & Co.,
84 Hawley St., Boston.
For page see List of Advertisers.

AZALEAS, KENTIAS, BOXWOOD.

Bobbink & Atkiss, Rutherford, N. J.
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BULBS.

H. E. Fiske Seed Co.,
12 and 13 Faneuil Hall Sq., Boston.
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CARNATIONS.

Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

FERNS AND DECORATIVE PLANTS.

Henry A. Dreer,
714 Chestnut St., Philadelphia.
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HYACINTHS, MUSHROOM SPAWN.

Johnson Seed Co., 217 Market St., Phila.
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ROSE PINK ENCHANTRESS.

S. S. Skidelsky,
824 N. 24th St., Philadelphia.
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TRUE IRISH SHAMROCK SEED.

W. W. Rawson & Co., 5 Union St., Boston.
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VINCA MAJOR.

Otto Katzenstein & Co., Atlanta, Ga.
For page see List of Advertisers.

YELLOW CALA MRS. ROOSEVELT.

V. H. Hallock & Son, Queens, N. Y.
For page see List of Advertisers.

BUSINESS NOTES OF THE TWIN CITIES.

Amundson & Kerchner have opened a very pretty new store on Hennepin avenue, Minneapolis. Mr. Kerchner is well known to the trade both east and west, and for some years past has been with the state nurseries of Helena, Montana.

At 34th and Lyndale avenue, Thomas Hall has erected a range of four houses—about 13,000 ft. of glass—for roses and carnations. "Foley" material was used; the houses are nearly of equal span. Mr. Hall was formerly with the Lakewood cemetery.

At the Minneapolis Floral Co.'s place, the home of the beautiful new rose Kate Moulton, a new boiler house is nearing completion, and this with the new range involves a cost of over \$30,000.

This week sees the completion of a new River Drive that extends along the Mississippi from Riverside park to the Short Line bridge. The boulevard is the work of the park board, under the direction of Supt. Theodore Wirth.

SILVER WEDDING AT NEWPORT, R. I.

Mr. and Mrs. Henry J. Hass celebrated the 25th anniversary of their wedding on Saturday evening last. When Mr. Hass starts to do anything he does it thoroughly; so when he made up his mind to celebrate the silver wedding, preparations were at once set on foot for a good time for the hosts of friends of his and of Mrs. Hass. These to the number of upwards of six hundred gathered on the evening stated to make glad with the host and hostess. The presents from friends to Mr. and Mrs. Hass were numerous, elaborate and costly. The entertainment following the reception was varied, enjoyable and refreshing, good cheer abounded.

PHILADELPHIA NOTES.

Professor Stewardson Brown gave an interesting stereopticon lecture on the Switzerland of America—North-Western Canada—before the Horticultural Society on the 16th inst.

They say many Jersey mosquitoes weigh a pound. But Jersey is noted for many other things besides its mosquitoes—vegetables and fruits especially. This point is well illustrated in the Johnson Company's exhibit of squashes this week. One of them weighs one hundred and eighty-nine pounds; another is six feet long and arm thick. All sizes, sorts and conditions are on view from the nest egg pigmy to the aforementioned mammoth, and all grown on the firm's Jersey farms.

George Saintman, late of Myers & Saintman, is the latest addition to the Pennock-Meehan forces. There are few better judges of good flowers, and the grading department is distinctly strengthened by the advent of Mr. Saintman.

WASHINGTON WANTS A COMMISSION HOUSE.

Several meetings of growers and retailers have recently been held to consider the question of a cut-flower commission house. Among the most interested are Z. D. Blackstone, John Robertson, Henry Pfister, W. W. Kimmell, David Grillbertzer, and others. It was at first proposed to form a stock company with a capital of \$25,000. There is, however, some disagreement as to the course to be pursued and nothing definite can yet be stated concerning the project. A well-known retailer makes the statement that if the company is not formed he will himself go into the commission business. The scheme is being opposed by several growers who are also in the wholesale and retail business. To disinterested parties it seems that a commission house, properly conducted, would spell progress to all lines of the business. The small grower is usually a busy man—too busy to be compelled to peddle flowers from store to store, which under present conditions he has frequently to do. Considering the great amount of stock that is sold in Washington during the season, it is most surprising that concerted efforts have never been made to bring growers and retailers in closer touch. This does not necessarily mean the growers of the District of Columbia exclusively, for if they do not have the stock—and frequently they do not—it must come from other places. Clearly, the growers of the district who oppose a commission house must either grow more and better stock or accept the consequences.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. initials count as words. Cash with order.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—Private place preferred as head gardener. Married; two children; good reference. A. N., care R. & J. Farquhar Co., Boston.

SITUATION WANTED by carnation and violet grower; also good grower of Budding Stock; 25 years' experience. J. P. Hersey, 29 So. Main St., Attleboro, Mass.

SITUATION WANTED by gardener of adequate experience, to take management of estate, with or without greenhouses. Address H. J., care HORTICULTURE, 11 Hamilton place, Boston.

SITUATION WANTED—As private gardener on place where there is a range of greenhouses. Best of references. Over 7 years in last place. Expert rose grower. Married. Address J. J., care HORTICULTURE.

WANTED—Medium sized second hand hot water boiler. H. W. Voss, Ryde Park, Mass.

WANTED—Experienced florist for high class city store. Apply in person or write to W. H. Traendly, 100 West 17th Street, New York City.

WANTED A man for greenhouse, not over 30; must be capable, intelligent and temperate. Address W. H., HORTICULTURE, 11 Hamilton Pl., Boston, Mass.

GREENHOUSE CONSTRUCTION.

(A paper read by J. B. Vose before the Gardeners' and Florists' Club of Boston, October 16, 1906.)

Greenhouse construction may be divided into two classes, private and commercial. In the former class appearance enters more largely in the design and construction than in the latter, but the object in both is to secure the most durable construction combined with that of one that will admit the greatest amount of light, the element of expense nearly always being a factor to be considered.

For private use where it is assumed the owner is not compelled to sacrifice durability or appearance because of a lack of capital, the almost uniform construction is an iron frame greenhouse on masonry walls. This has been proven by years of experience to more nearly meet the requirements than any other construction.

The person desiring to build commercially, who to be successful, cannot usually afford to place a large amount of money in expensive masonry walls. To this person a choice of several distinct forms of construction is offered; first, the iron frame greenhouse on cast iron foot pieces; second, the wood frame or so-called sash bar house, having angle iron plate and posts with cast iron foot pieces; third, trussed roof house having angle iron plate and posts and cast iron foot pieces; fourth, an all wood house of sash bar construction having wood plate and wood posts; and fifth, an all wood sash bar house having wood plate and wood sill on concrete walls.

For one starting in the florists' business or adding to their present range, the question is, which construction will pay the greatest dividends in the business. This point rests on the amount of light admitted, the durability of construction, and the probable cost of repairs.

From the standpoint of light, assuming that all of the constructions have 16x24 inch glass placed the 16-inch way, the iron frame house has a considerable advantage. The size of the standard sash bar in this construction is 15-16 x 17-8 inches and the wood cap for rafter is 17-8 inches each way. The size of the standard bar for sash bar construction is 13-8 inches wide by 21-2 inches deep. In an iron frame house 100 feet long, providing the sun shines at right angles to the length of the house, you would have 6 feet 6 3/4 inches of shade against 8 feet 3 inches in sash bar house, which makes a difference in favor of the iron frame house of 1 foot 8 1/4 inches of solid shade. It has been argued that because of the depth of the iron rafters, that when the sun shines from the direction of the gable of the house, there is more shade with the iron frame construction than in the sash bar. This is not so. There is about 15 degrees more shade in the sash bar house if the sun shines from the direction of gable than in the iron frame house with 3-inch iron rafters. Furthermore, in one construction the iron frame supports the house while in the other the sash bars only, give strength to the roof. This allows the bars to be omitted under ventilating sash in iron frame house, while they have to remain to the ridge in sash bar house, making additional shade at that point in the

latter construction by having two rows of bars, one above the other at ridge sash.

It may seem to some that these figures show so small a difference in light between one method of construction and that of the other that it would not pay in dollars and cents as far as light goes, to invest any greater amount of money in one construction than in the other. I think, however, if you will go into a house of sash bar construction and then into one of iron frame construction, you will at once notice a difference in the amount of light in the houses and I also think you will admit that if this is easily discernable to the eye, better results will be obtained in the lighter houses, providing all other conditions are the same, than in the one having more shade.

As for strength of construction, the iron frame house is decidedly the strongest, especially in a wide house. But for a house not over 33 feet 4 inches wide of usual pitch, which allows for five benches about 4 feet 4 inches wide each, with usual walks, the sash bar construction with angle iron post and plate offers an excellent solution for a person who has not the capital to invest in an iron frame structure. Although many sash bar houses are built wider, in my opinion, to secure an element of safety and strength without undue supports and trussing, the iron frame house should be used in wider structures than that of about 33 feet. This sash bar construction, as previously stated, has some disadvantages, as regards the amount of light admitted, but compares favorably in durability to the iron frame structure. The same general form of cast iron foot piece and angle iron plate is used in both constructions.

The trussed roof house of sash bar construction, having angle iron posts and plate and cast iron foot pieces, has the advantage of doing away with supporting columns in house not over 29 feet wide.

The all wood house of sash bar construction, having wood plate and posts has the redeeming feature of being the least expensive construction that one can erect considering first cost only. The sash bar house having wood plate and wood sills on concrete walls is a construction more expensive than a house having angle iron plate, angle iron posts with cast iron foot pieces, and removable base board, while it has the disadvantage of not being as durable because of the liability of the wood plate and the wood sill on the masonry wall to decay in a short time. Especially is the wood sill on masonry wall a weak member in greenhouse construction.

(To be continued.)

GREENHOUSES BUILDING AND PROJECTED.

New.

Ayer, Mass.—E. A. Richardson, one house.

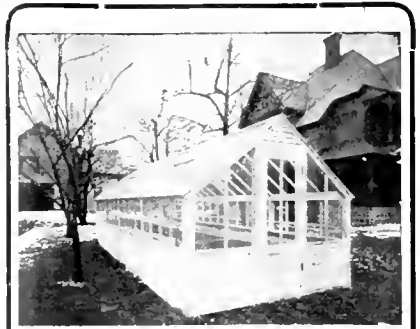
Iowa City, Ia.—Iowa University, one house, 18x60.

Additions.

Covington, Ky.—Covington Seed Co., three houses, 18x105, 24x120, 24x105.

Lebanon, Ind.—P. O. Tauer, four houses, each 20x150.

Sterling, Ill.—Sterling Floral Co., two houses, 9x125, 25x125.



In a Premier Greenhouse—

all good points are combined. There's durability, artistic appearance, ease of erection — and — ease of RE-erection.

It's a better house than is usually built; the price is ONE THIRD of that usually charged.

Send for booklet No. G-48.

Chas. H. Manley,

Premier Mfg. Works, St. Johns, Mich.

NIKOTEEN APHIS PUNK

THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
STRONGEST AND MOST UNIFORM

PRICE 60¢
PER BOX OF 12
LONG SHEETS

\$6.50 PER
CASE OF
12 BOXES

NIKOTEEN

LIQUID

FOR SPRAYING OR VAPORIZING
PRICE \$1.50
PER PINT
BOTTLE

\$13.00 PER
CASE OF 10
PINT BOTTLES.

NICOTINE MFG. CO. ST. LOUIS MO.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

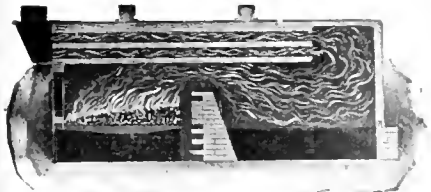
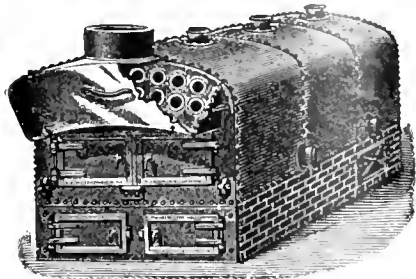
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261 to 287 A St., BOSTON 20-22 Canal St.

Kroeschell Bros. Co.

IMPROVED

Greenhouse Boiler,
35 Erie St., CHICAGO.



Boilers made of the best material; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.



HAVE YOU TROUBLE IN KEEPING

Even Temperature

in your Greenhouse? You won't have it you use

OUR STEAM TRAP

Write us.

MOREHEAD MFC. CO.

1045 Grand River Ave DETROIT, MICH.

SEND FOR CATALOGUE OF
SCOLLAY HOT WATER
and **STEAM BOILERS**

JOHN A. SCOLLAY

73 and 75 Myrtle Avenue

BOROUGH OF BROOKLYN, N. Y. CITY

N. YORAWANDA, N. Y. TORONTO, ONT.



GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.

117 E. Blackhawk St., CHICAGO

Holds Glass Firmly
See the Point **PEERLESS**
FULL SIZE No. 2

Glazing Points are the best. No rights or lifts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
714 Chestnut St., Philadelphia, Pa.

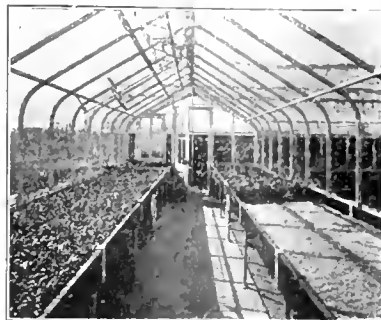


THE essence of all plant growth is light, the more light, the quicker and more abundant the plant growth. For years greenhouse builders have been striving for lighter houses, realizing that all other things being equal, the houses admitting the

greatest amount of light, gave correspondingly greater returns, whether it be of flowers, fruits or vegetables.

It is not so long ago when all greenhouses were constructed with heavy wooden sash bars, rafters and supports, and were glazed with narrow glass eight to ten inches wide.

Various improvements were made from time to time, which gradually led to the production of the iron frame in which are rafters, purlins, and other members, are capped to prevent ex-



up to the present the wood capped construction, used iron rafters, gutters, sills, structural members, some of which with wood to prevent expansion and contraction of the iron frame; the wooden sash bars still being retained but made smaller and spaced to receive glass sixteen inches wide.

This construction while a great improvement still left many things desired in the way of lightness, durability, attractiveness and cost of maintenance.

To more fully meet these exacting requirements, the U-Bar form of construction was conceived, the result being that the U-Bar house is as far in advance of the best type of the wood capped iron frame houses, as it was of its predecessors.

Extract from introduction in our new catalogue—the catalogue we want you to send for—
Pierson U-Bar Company, Designers and Builders U-Bar Greenhouses, Metropolitan Building, 4th Avenue and 23rd Street, New York.

GURNEY HEATERS
FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE. BOSTON OFFICE 74 FRANKLIN ST.

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2 1/2	pots in crate \$4.85	120 7 in.	pots in crate \$4.20
1500 2 3/4	" " 5.25	60 5	" " 5.00
1500 3	" " 6.00	HAND MADE	
1000 3	" " 5.00	43 1/2 in.	pots in crate \$ 60
800 3 1/2	" " 5.80	48 10	" " 4.80
500 4	" " 4.50	24 11	" " 5.00
320 5	" " 4.50	24 12	" " 4.50
144 6	" " 4.16	12 14	" " 4.50
		5 17	" " 4.50

Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Flower Vases, etc. Ten percent. off for cash with order. A. H. Hillinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money.
W. H. ERNEST,
26th and M Streets, WASHINGTON, D. C.

NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE BY HAIL. For particulars address
John G. Ester, Saddle River, N. J.

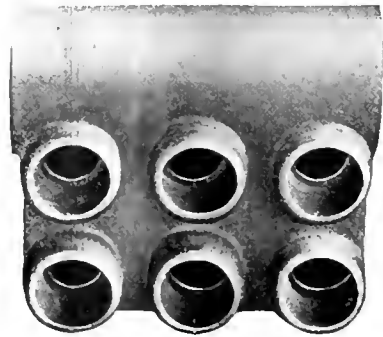


What Would You Think

of a man who in trying to sell you his house, should bring you a brick from it as a sample? It's quite as reasonable to think of buying greenhouse materials on the merits of the quality of the materials only. Not only is it a question of quality, but the practical, exacting, economical and thorough up-to-dateness of the house they will make. Keep your eye on the firm who sends out bricks. Keep in touch with the firm who from the whirl of their factory wheels to the last hammer stroke, stand for the up-to-date thing at the up-to-date price.

HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.



WHAT ARE YOUR HEATING TROUBLES?

Perhaps your men forgot once too often last winter to turn the pet cocks and let the air out of your pipes—you had an air lock—a dead end—no heat—things got chilled—plants never recovered. If that's the case we can settle that trouble at once with our automatic header.

Not only automatic, but a heating surface as well—nothing lost—everything gained.

LORD & BURNHAM CO.

Greenhouse Designers and Manufacturers
113 BROADWAY, cor. 26th Street, N. Y.
BOSTON Branch: 819 Tremont Building



GREENHOUSE MATERIAL
OF ALL KINDS
FOLEY MFG. Co. 471 W. 22ND ST. CHICAGO
VENTILATING APPARATUS PURLIN FITTINGS, HOT-BED SASH & C.
SEND FOR NEW FREE ILLUSTRATED CATALOGUE - 

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.
FOLEY MANUFACTURING COMPANY, 471 W. 22d Street, Chicago.

POT MAKERS FOR 140 YEARS
A. H. HEWES & Co. Inc. CAMBRIDGE, MASS.
FLORIST WARE OF EVERY KIND

STANDARD PLATE GLASS CO.

Manufacturers, Importers and Jobbers

AMERICAN AND FRENCH GREENHOUSE GLASS

26-30 Sudbury Street
61-63 Portland Street

BOSTON, MASS.

WEATHERED COMPANY

BOX 789, NEW YORK

GREENHOUSE BUILDING AND HEATING

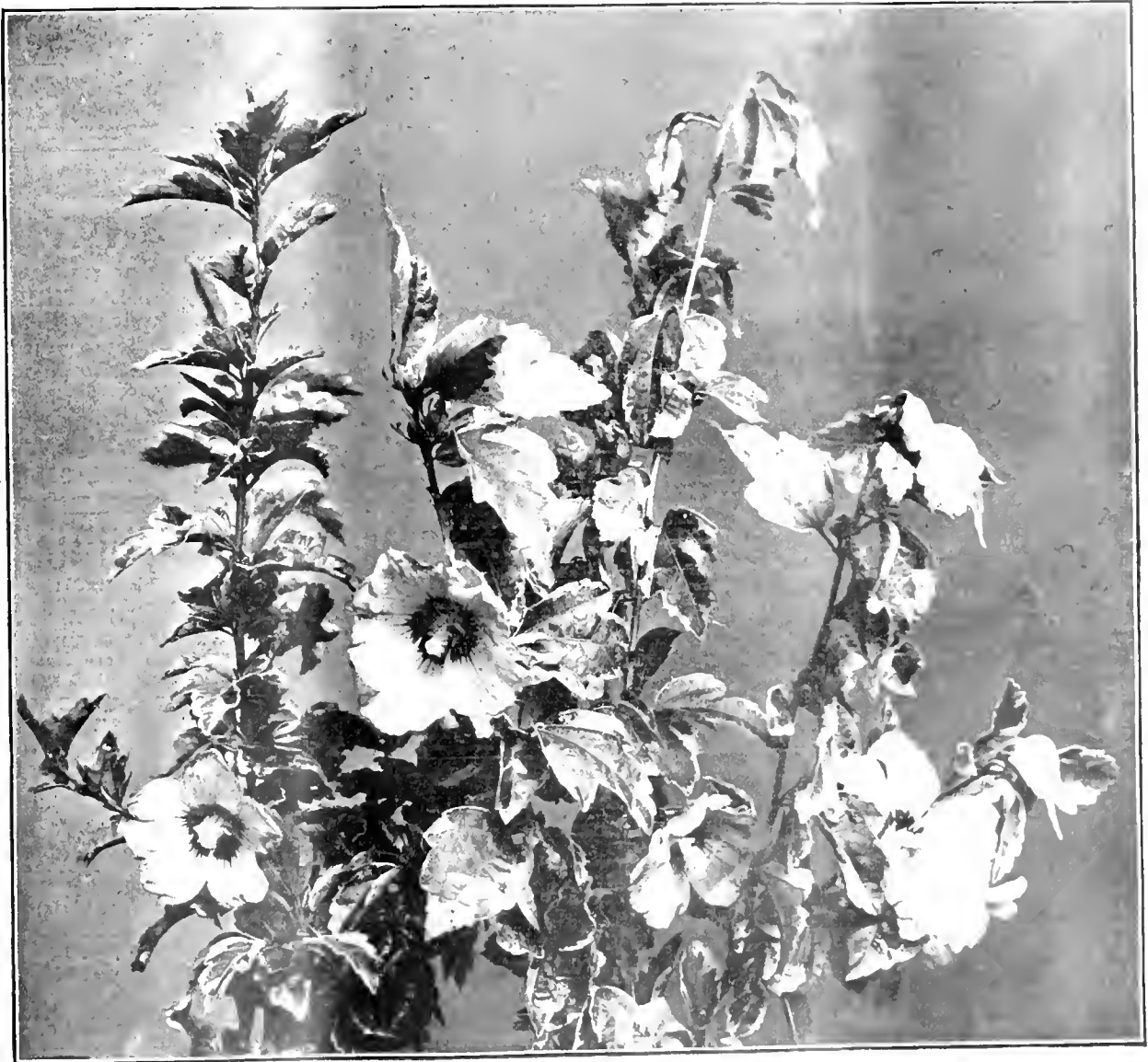
Send for Catalogue

HORTICULTURE

Vol. IV.

OCTOBER 27, 1906

No. 17



HIBISCUS SYRIACUS MEIBIANII

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

NOW READY Easter Lilies

Should be potted at once, as Easter is early this year

Japan stocks are now arriving, and are in first-class shape

JAPAN LONGIFLORUM,	9 to 10 in. bulbs, case of 200 bulbs,	\$15.00.
"	Multiflorum, 7 to 9 in. bulbs, case of 300 bulbs,	\$15.00.
"	"	9 to 10 in. bulbs, case of 200 bulbs,
"	Giganteum, 7 to 9 in. bulbs, case of 300 bulbs,	\$18.75.
"	"	9 to 10 in. bulbs, case of 200 bulbs,
LILIUM CANDIDUM, selected bulbs,	\$5.00 per 100.	

A Few of the Leading Narcissus

PAPER WHITE GRANDIFLORA, 13-15, c-m, fine bulbs, case of 1250 bulbs,	\$11.25.	Per 1000
DOUBLE VON SION, first size		\$9.00
"	extra size	12.00
"	mammoth double-nosed, or top root,	20.00
PRINCEPS, early, single, fine bulbs		7.00
GOLDEN SPUR, the favorite single yellow		18.00
EMPRESS, a grand bicolor		20.00
ALBA PLENA ODORATA,		6.00
BARRI CONSPICUUS,		8.00
POETICUS,		4.50
POETICUS ORNATUS,		7.00

WHITE ROMAN HYACINTHS, 12 1/2-c-m,	23.00
13-15	28.00
FREESIA REFRACTA ALBA, finest Bermuda bulbs	7.50
BERMUDA BUTTERCUP OXALIS	7.50
SPANISH IRIS, mixed	2.50
CALLAS, Exhibition Bulbs, 2 in. to 2 1/4 in. in diameter,	\$10.00 per hundred.

For other bulbs and for smaller quantities, see our Wholesale Price List, in which will be found a full assortment of all kinds of bulbs for winter and spring flowering. Send for list if you have not already received one.

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

Some give you quality, some give quantity, I give you both!

FICUS

4-inch, 22 1-2c.; 6-inch 40c.; Stock Plants, 60c. and 75c.

FERNS

Bostons, 4-inch, 12 1-2c.; Pans, \$1.00, \$1.50 and \$2.00.

PLUMOSUS

3-inch, 5c.; 5 and 6-inch, 10c.

William C. Smith
61st and Market St.
PHILADELPHIA, PA.

No C. O. D.'s. Satisfactory references required, or the cash. Five off if remittance accompanies order.

ASPARAGUS CRAWSHAWII

A beautiful asparagus.
SUPERIOR TO ALL OTHERS
in many respects.

Seedlings \$3.00 per 100, \$25.00 per 1000.
Transplanted Seedlings, \$5.00 per 100,
\$40.00 per 1000.

SAMPLE 10c.
JAMES CRAWSHAW
403 Plainfield St. PROVIDENCE, R. I.

MABELLE NEW PINK CARNATION FOR 1907

COLOR—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. SIZE—3 to 4 inches in diameter when established. ODOR—Pleasing, but not strong. STEMS—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. HABIT, etc.—A very quick, active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. PRODUCTIVENESS—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. Stock Limited. Delivery January 5th to 10th and later.

Price \$12.00 per 100, \$100.00 per 1000

The H. WEBER & SONS CO., Oakland, Md.

VIOLETS

Lady H. Campbell & California, out of 2 1/2 inr pots. Fine healthy stock.

\$2.00 per 100; \$10.00 per 1000

Smilax 2 1/2 in \$1.25 per 100; \$10.00 per 1000

J. C. Schmidt Co., Bristol, Pa.

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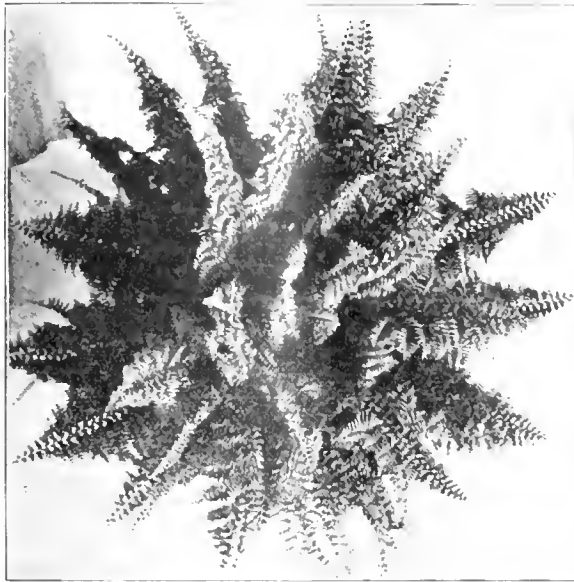
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Stanhopea oculata



Stanhopea oculata is a species of orchid which is both curious and beautiful and it is one of the commonest and most popular of the genus.

The peculiar habit all stanhopeas have of producing flower scapes which bore their way through the compost in which they are planted, combined with the extraordinary shape of the flowers make the genus an interesting one.

The labellum is the most striking part of the flower which is fleshy and wax-like and is usually made up of three parts or lobes, the basal part or hypochil which is always more or less saccate, the middle part or mesochil which often bears two horns, and the apical lobe or epichil which is keeled and often pointed. The column which arches over the labellum is more or less winged.

S. oculata is a native of Mexico. The flower is pale yellow with numerous spots of red of various sizes on every part except the basal half of the hypochil which is rich yellow with a distinct black spot on each side, and at the base of each petal there is also a distinct black spot. The flowers open with a distinctly audible report in early morning. The powerful odor is somewhat offensive in a closed room.

The subject of the accompanying illustration which is a very pale form of *S. oculata* is the inflorescence of a plant collected by Dr. Shafer in a rough, densely wooded region of Mexico. Stanhopeas are easily grown and enjoy a moist, warm greenhouse with occasional overhead syringing and a compost of fern roots and chopped sphagnum. Baskets are the most suitable receptacles on account of the pendulous scapes. The drainage should be pieces of charcoal placed in such a way that the scape will find its way between the pieces. When resting the plants should be kept moderately dry.

James Hutchinson

British Horticulture

BULB GROWING IN LINCOLNSHIRE

The bulb growers in South Lincolnshire have lately been busy planting bulbs for next season's crop. There seems likely to be an increase in the acreage, as compared with last year, whilst the number of glass-houses is being extended. This branch of horticulture has made great strides in recent years. The industry owes its origin to a working man, who began operations 60 years ago. He found that there was a demand for daffodils in London, and consequently he drove about the country buying bloom and bulbs from the cottagers. In course of time he was able to plant several acres of bulbs. At present his son is one of the most prosperous of the bulb farmers in the Fen district. Many of the Lincolnshire flower farmers, finding they could not get their blooms on the market as early as the Scilly farmers have in recent years gone in extensively for forcing the bulbs under glass, and this enterprise has proved very profitable. After the bulbs are lifted in the autumn they are sorted, cleaned and dried. The surplus stocks are sold to seed merchants in Scotland, Ireland, France, America and even in Holland, for the Dutch growers have strong rivals in Lincolnshire. The industry has brought increased prosperity to a county which, in common with other parts of rural England, has felt the effects of agricultural depression during the last half century.

SOME NEW DAHLIAS.

There appears to be no limit in the raising of new varieties of dahlias. An object lesson was lately afforded of the great strides made in recent years in dahlia development by an exhibit of Messrs. Cannell & Sons. This firm at the Royal Horticultural Hall displayed some of the early types of dahlias in contrast with those of modern times. Charles Turner, who makes a specialty of the pompon varieties, has two new comers in this section. These are Rodney, of an amber and fawn tint, and Portia, a deep rose with silvery centre. Four new cactus varieties raised by Messrs. H. Strednick & Son are: Hyacinth, pink with bronzy orange center; Meteor, a purple and white fancy; Sunshine, rich rosy red; Ruby Grinstead, rosy fawn, with orange base. Messrs. J. Cheal & Sons have brought out Kitty, an attractive single of a rosy mauve tint and crimson base. Daisy Staples, a new cactus shown by Messrs. Carter & Co., is of a deep rosy pink tint, with excellent pointed florets. These novelties have received awards from the Royal Horticultural Society and first-class certificates from the National Dahlia Society.

AUTUMN ROSES.

The Scottish and Irish growers scored the chief successes at the autumn show of the National Rose Society. The hot, dry summer has been very trying to the rosarians in the south of England. Several of the principal firms found themselves unable to compete at the last moment. Messrs. Cocker & Sons secured a silver medal for the best H. P., with the ever popular Mrs. John Laing. Mr. Hugh Dickson had a similar award in the section for H. T.'s, showing Mme. Joseph Combet, a cream bloom with a primrose centre. Maman Cochet, exhibited by Messrs. Adam & Craigmile, secured the medal for the best Tea. There was not a very numerous entry of new seedlings. In this branch the gold medals went to Ireland. Mr. Hugh Dickson showed a new H. T., Mrs. Stewart Clark, a bold bloom of a rich cerise,

changing toward the petals edges to silvery rose. The other gold medal seedling was a H. T., Dorothy Page Roberts, shown by Messrs. Alexander Dickson & Sons. The large blooms are of a soft peach tint, of an attractive form. A special feature was the group of roses arranged by Messrs. Paul & Son, the leading varieties being represented. A gold medal was awarded.

THE IMPROVEMENT OF GARDEN FLOWERS.

One of "the leading" London daily papers lately opened its columns to a discussion of the improvement of flowers by florists. Some of the critics have been rather severe on the operations of the florists in this direction, and urge that the developments in some cases have spoilt the natural beauty of the flower, particularly when an abnormal size has been sought, as in the case of some of the later introductions of chrysanthemums. In the course of an interesting letter contributed by Messrs. Sutton & Sons, it is pointed out that there is a growing taste evinced for such flowers as retain at least some distinct resemblance to their original type. "The florist is no longer encouraged to efface the characteristic difference in each variety, but rather is desired to accentuate and perpetuate such type whilst obtaining the greatest possible range of variations."

W. H. Adsett,

Early Chrysanthemums in London

The National Chrysanthemum Society held its annual exhibition of early varieties on the 3rd and 4th October last. Although somewhat less in extent than that of last year it was interesting in many points of view. Besides the ordinary classes for cut blooms there were many exhibits showing the use of this popular flower for table decoration, for vases, baskets, etc. There was the usual sight of cut blooms on boards, such as we see at the ordinary November shows, but the real value of the early chrysanthemum lies in its decorative value and not in its use as a mere exhibition specimen bloom.

Many of the bunches and vases of chrysanthemums had come from plants grown in the open ground. They were well colored, freely grown, medium sized flowers that are most acceptable at this season of the year. In whites La Parisienne, Parisiana, Mytchett White, Roi des Blancs, Market White and Queen of the Earlies were numerous. Yellows were well represented all over the show by Horace Martin, Champ d'Or, Carrie, Gustave Worming, Miss B. Miller, and other well known sorts, while here and there richness was added to many of the exhibits by varieties of higher tones in bronzes, purples and crimsons, such as crimson Marie Masse, Beacon, Perle Rose, Gaudier's Crimson, Nina Blick, Nellie Blake, Le Pacton, Mme. Marie Masse, Ernest Baltet and many more.

Some of the specialists, such as H. J. Jones and William Wells, put up fine groups arranged in a most artistic style in which a room culture was very common. Nivose, Merstham Yellow, Mrs. F. J. Duck, Mrs. G. Beaume, Miss Philips, Chistarden, British Empire, Mrs. A. T. Miller, and a greenish white, Mrs. W. Knox (grand), Arthur du Clos, to say nothing of many others similar in habit.

Single and double plants were exhibited in large numbers and also cuttings of all sections. The peony-

flowered dahlias staged by Hobbies, limited, seemed to attract much attention. They are huge, broad-petaled varieties of great brilliancy of color. Baron de Grancy is a fine white, Dr. Van Gorkem flesh pink, Germania a vivid crimson, Queen Wilhelmina pure white, Duke Henry purple crimson, Gloiry of Baarn pale lilac rose. One of the most dazzling of this type was the deep reddish crimson Sr. de Gustave Douzon.

Carnations also figured at the show, a nice collection being set up by T. S. Ware & Co., and also by Hugh Low & Co. There were many other exhibitors.

A Japanese gentleman, Mr. H. Yoshida, brother to the Secretary of the Japanese Horticultural Society at Tokio, was present and in returning thanks to the toast of the visitors paid homage to the skill of English cultivators of his national flower, which he considered had reached a high degree of perfection in England.

Charmian Payne

Rose of Sharon (*Hibiscus syriacus*)

See Frontispiece.

A more highly prized shrub than the Rose of Sharon or *Althaea*, would be hard to find. It blooms at a period when few shrubs are in flower, and the diversity of color in the various varieties makes it possible to use them in large quantities, even in limited plantings. Not only do they produce good effect as specimens or in the shrubby borders, but used as a hedge they are extremely pretty. They thrive in almost any fair soil, preferring, however, good garden loam. No shrub responds more readily to trimming. This should be done in the winter.

Though there are many kinds, the following can especially be recommended: Bicolor: White with a crimson centre. Boule de Feu: A showy, violet-red variety. Carnea plena: Double white shaded and striped pink. Comte de Flandre: Double dark red,—not so full. Duc de Brabant: Double red shading pink. Elegantissima: White with a crimson centre; full double flowers. Jeanne d'Arc, double and slightly quilled, is the only pure white type that is double. Lady Stanley: A pretty double white, shading to deep crimson. Leopoldi: Flesh shaded to rose with crimson centre; double. Paoniflora: Cerise; semi-double. Speciosa: Double, blush. Totus albus: Single pure white.

New varieties. Coelstis: A beautiful single variety having flowers of a true blue, no trace of purple, and they do not fade to a magenta as many do. This is a French variety and merits recommendation.

Mechanic: This new variety has come to stay. It has many good points to recommend it. In the first place its pretty variegated leaves are quite distinct and do not revert to the green, as many variegated-leaved plants do. The flowers are one of its chief recommendations. We noted some grand examples of October plantings. The common variegated-leaved hibiscus bears buds which, however, never expand. This new type bears large single flowers of a satiny lavender color, and the contrast produced by these against the variegated foliage can hardly be overdrawn. It was introduced for the first time this season and has a good future.

Warren Chandler

OBITUARY.

R. J. Mendenhall

R. J. Mendenhall, the pioneer florist of Minneapolis, passed away on Friday morning, Oct. 19, at the family residence on Stevens avenue. Mr. Mendenhall erected the first greenhouses in Minneapolis some forty years ago, and for years had the most successful business in the northwest. In late years, owing to ill health, he rented his greenhouses; and it is within the past year that he has sold the greenhouse material and decided to quit the business. He has been one of the trustees of the Lakewood Cemetery Association from the beginning, and he has from the start made a strong effort to make Lakewood Cemetery the beautiful place that it now is. In 1862 he became city treasurer and president of the State Bank of Minneapolis, and later served as secretary and treasurer of the Board of Education. Many of the florists in Minneapolis today first worked for Mr. Mendenhall, and later branched out for themselves. He was a member at one time of the S. A. F., and also of the Minnesota Horticultural Society, but in late years ill health caused him to lessen his interest in these things. Mr. Mendenhall was a member of the Orthodox Friends, and from the "Quaker Church," with which he has ever been identified, the burial services were held at 2.30 o'clock Sunday afternoon. The florists of the city sent a beautiful design of American Beauties and carnations. He's gone—the oldest northwest florist—and in the procession march they all.

E. L. White.

Edward L. White, for many years a florist in the Bedford district, New York, died on Oct. 18 at the advanced age of 93.

C. F. Thompson.

Charles F. Thompson of the firm of Thompson Bros., East Haddam, Conn., died on October 19, at the age of 51.

THE LATE DEAN HOLE.

A memorial to the late Dean Hole was dedicated by the Bishop of Rochester in the cathedral of that city on the 29th ult. The memorial is in the form of a recumbent figure of the late Dean in statuary marble. He is represented in his robes with eyes closed and hands clasped, and at his feet is a wreath of his favorite roses. Mr. F. W. Pomeroy, A. R. A., is the sculptor of the memorial, which rests upon an altar base of alabaster designed by Mr. C. Hodgson Fowler, F. S. A.—The Gardeners' Chronicle, October 6, 1906.

Bulletin No. 2 has been issued from the office of the Massachusetts Moth Superintendent, Mr. A. H. Kirkland. It is intended for the guidance of cities and towns and individual citizens in the work of suppression of the two destructive insects—the gypsy and brown-tail moths and a perusal of its contents is recommended to everyone who would be well informed as to the essential facts concerning these two notorious pests. The report is profusely illustrated.



Our illustration shows John A. Macrae's deep yellow sport from Yellow Eaton chrysanthemum which, when shown in Boston last year, scored 90 points in the C. S. A. scale Its form, as the picture shows is in the way of Major Bonnafon, closely incurved, the petals longer pointed than in that well known variety. The color is much brighter and deeper than that of Yellow Eaton. The E. G. Hill Company has purchased the larger part of the stock and the

variety will be disseminated jointly next spring by the E. G. Hill Company and the originator and will be for sale also by S. S. Skidelsky. Its good growing qualities have been well proven this year and some superb flowers will be shown but as it is strictly a late variety it is doubtful if blooms can be got ready for the large exhibitions although great efforts are being made to that end. The first flowers were cut last year on November 25.

CHICAGO NEWS NOTES.

Carnation Aristocrat is making a most flattering success for so early in the season. The Chicago Carnation Company are almost overwhelmed by the call for the blooms at fancy prices.

Mr. Washburn, of Bassett & Washburn, is authority for the statement that the prices for chrysanthemums are this year much larger than in previous years, up to the present date, and that if they hold out as they have begun this will be a record-breaking year.

The Foley Manufacturing Company have under construction a new plant of much larger size and with increased facilities for their output which is finding a rapidly growing demand, both east and west.

W. J. Smyth's retail store has been undergoing an extensive overhauling, and now presents a most attractive appearance, exterior and interior.

P. J. Hauswirth has been obliged to

return temporarily to his old quarters in Congress street during the completion of the new addition to the Auditorium Annex, where Mr. Hauswirth will have a palatial outfit.

DETROIT DOINGS.

Gust Knoch of Woodmere who worked up quite a trade by raising water hyacinths in a pond on his grounds lost all these plants through the refuse water of the local gas company entering his pond. He promptly started a suit against the Detroit Gas & Light Co., and a jury in Judge Murphy's court awarded him \$800 damages.

Mr. Thomas Brow who has nearly completed a fourth house, recently injured his knee severely through a fall from a scaffold. Frequent visits by fellow members from the florists' club make this misfortune easier for him.

NEWS OF THE CLUBS AND SOCIETIES

HORTICULTURAL SOCIETY OF CHICAGO.

Preparations for the great exhibition of Nov. 6-11, 1906, are going forward satisfactorily. Posters are ready for distribution. The pictorial subject is a smiling female profile peering out from a group of huge chrysanthemum blooms. The garden and lecture features which were so well received last year, are being exploited, and this part of the show is expected to excite great interest among the public.

A revised premium list has been prepared and is ready for mailing. Material additions have been made to the list of premiums for floral arrangements by the retailers, and numerous entries are assured. Much attention is being given to the equipment of the Information Bureau, so that every opportunity for information on any point which the public may seek may be afforded. It is proposed to establish a "private gardeners' day" as a special feature.

ELBERON HORTICULTURAL SOCIETY.

A meeting of this society was held on Oct. 15, when two new members were elected.

Amongst the exhibits shown were a very fine vase of Richmond roses by Peter Murray; a vase of carnations by A. Bauer, and a vase of cosmos by A. Grieh. W. D. Robertson exhibited a dish of sweet potatoes, variety Yellow Yam.

The following officers were elected for the ensuing year: President, W. D. Robertson; vice-president, Henry Wood; treasurer, James Kennedy; secretary, George Masson; asst. secretary, Fred Dettlinger; and will be installed at the November meeting.

GEORGE MASSON, Sec'y.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of the Committees.

Chicago, Oct. 13th.—Chrysanthemum President Loubet; creamy white, exhibited by the E. G. Hill Co., Richmond, Ind. Scored 86 points, exhibition scale.

New York, Oct. 20th.—Chrysanthemum President Loubet; creamy white, exhibited by the E. G. Hill Co. Scored 90 points, exhibition scale.

New York, Oct. 20th.—Mary Godfrey; yellow, Jap. incurved, exhibited by C. H. Totty, Madison, N. J. Scored 85 points, commercial scale.

New York, Oct. 20th. Mrs. A. J. Miller; pure white, Japanese, exhibited by C. H. Totty. Scored 87 points, commercial scale.

Cincinnati, Oct. 20. Chrysanthemum Director Gerard; yellow, Jap-reflexed, exhibited by the E. G. Hill Co. Scored 87 points, commercial scale.

Cincinnati, Oct. 20. Chrysanthemum Fusee; light yellow Jap, exhibited by the E. G. Hill Co. Scored 85 points, commercial scale.

Cincinnati, Oct. 20. No. 3,305, Comoleta; clear bright yellow, exhibited by Nathan Smith & Son, Adrian, Mich. Scored 88 points, commercial scale.

DAVID FRASER, Secretary.

COLUMBUS FLORISTS' CLUB.

The annual meeting of the club was held last Tuesday evening. President Stephens was in the chair, and all the other officers were present, as well as the largest attendance in a very long time. The result of the election was as follows: President, Sherman F. Stephens; vice-president, Robert A. Currie; recording secretary, James McKellar; treasurer, Jacob Reichart; sergeant-at-arms, John H. Williams; trustees, Albert Knopf, Gustave Drobish, Guy H. Woodrow, George Bauman and John Brust. Immediately after the election, the reports of the various outstanding committees were in order. Vice-President Currie expressed himself as very much pleased with the splendid gardens entered by the school children, in competition for the sweepstake prizes. So varied and attractive were the entries that it was necessary in fairness to award two additional prizes; eight schools were represented. A goodly number of hyacinth, tulip, crocus and narcissus bulbs have been sent to ten schools with more to follow. It was voted to change our regular meeting nights from the first and third to the second and fourth Tuesdays of each month. The chrysanthemum show will be held Nov. 13, at our new rooms in the Brent building. The schedule of prizes has been distributed; and Messrs. M. B. Faxon, William Graff and Richard Sinclair made committee on awards. Messrs. Faxon and Graff Brothers have also offered special prizes; R. A. Currie was appointed manager of the exhibition. As practically all our growers have signified their intention of taking part, a very interesting show is assured. This chrysanthemum show will bring our members together for their first meeting in the new rooms, where every convenience, including a piano, has been provided. An active and busy winter is before our club.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

The Conard & Jones Company, West Grove, Pa., submit for registration the following:

Rosa rugosa magnifica. (*Rugosa* X *Victor Hugo*). Habit vigorous; flowers 5 inches in diameter, double, color bright crimson; foliage resembles *rugosa*.

Canna Meteor. Foliage green; flowers, large, deep crimson, in enormous trusses; height 5 feet.

Canna New York. Seedling No. 1549, flower true orchid form, unusually thick petals; foliage veined and splashed with bronze; height, 6 to 7 feet.

C. G. Roebbling, Trenton, N. J., submits for registration *Laelio-Cattleya Washington A. Roebbling* 2nd, (*Laelia harpophylla* x *Cattleya granulosa*). Flower bright yellow, with pink on lip, bulbs slender, ten inches long, double-leaved; leaves one and one-half inches broad and eight inches long.

WM. J. STEWART, Secretary.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual chrysanthemum exhibition of the Massachusetts Horticultural Society will be held at Horticultural Hall, Boston, on Nov. 2, 3 and 4. This is the society's greatest show of the year and it is expected that the display of this Queen of Autumn flower on this occasion will surpass in magnificence any previous exhibition. In addition to chrysanthemums there will be a fine showing of other flowering plants, orchids, fruits and vegetables.

A special feature will be the competition for decorated dinner tables, for which three large prizes are offered, as follows: First, \$75 and a silver gilt medal; 2d, \$50 and a silver medal; 3d, \$35 and a bronze medal.

Band concerts will be given every afternoon and evening from 3 to 5 and 7.30 to 9.30. The exhibition will open Friday at 2 o'clock, continuing Saturday and Sunday from 10 a. m. to 10 p. m.

WM. P. RICH, Secretary.

ST. LOUIS FLORISTS' CLUB.

The officers of the St. Louis Florists' Club held a special meeting at the Hotel Rozier on Monday night to arrange for the chrysanthemum show which will be held in the club rooms at the next meeting, Nov. 8, at 2 o'clock. Fifty dollars in prizes will be offered for pink, white and yellow, also for best specimen plant, any color. Falk also drifted on holding a public exhibition next year; this if sanctioned by the club at the next meeting, will exceed any previous efforts. A program was also mapped out for the entertainment of the members during the winter months. The trustees will have entire charge of these affairs; by this the meeting will be made attractive and the attendance greatly increased. The meeting was attended by all the officers from President Irish down.

DETROIT FLORIST CLUB.

The club held a very well attended meeting in its new home on the 17th inst. The main attractions were a paper by J. E. Sullivan on the violet cultivation in Rhinebeck, N. Y., and Mr. Hunter's paper on shrubs and herbaceous plants. Mr. Sullivan has just recently spent a couple of weeks in Rhinebeck for the purpose of getting any possible clues as to the successful growing of violets. It seemed a good place to find the reason why it is that our section is falling so far behind in the successful growing of this so very important commercial flower. Mr. Sullivan showed conclusively that the atmospheric and soil conditions are the primary reasons for the success of our fellow workers at Rhinebeck.

Mr. Hunter's paper on shrubs and herbaceous plants focussed the entire attention of those present. Its many suggestions as to propagation, cultivation and finally planting out of shrubs and herbaceous plants were very valuable. It was an evening well spent and highly appreciated as such.

S. S. PENNOCK - MEEHAN CO.

ONCIDIUM, \$2.50 and \$3.00
FORMOSUM (white), 40c.
CATTLEYAS, 50c.

CHRYSANTHEMUMS:
Medium, \$1.50 and \$2.00
Fancy, \$3.00 and \$4.00

VALLEY, \$3.00 and \$4.00

THE WHOLESALE FLORISTS OF PHILADELPHIA

1608 to 1618 Ludlow St.

Store Closes 8 p. m.

HUNTINGTON HORTICULTURAL AND AGRICULTURAL SOCIETY.

The exhibition given on Sept. 20 by this society at Huntington, L. I., was considered the best they ever held. A fine collection of palms from the conservatories of August Heckscher, Adolph Alius, gardener, decorated the hall. Henry A. Dreer had an attractive collection of aquatics. The display of vegetables was particularly good. One of the most interesting exhibits in this class was from the Long Island Railroad experiment farm at Wading River, which a year ago was a scrub oak waste; now, under the skilful management of H. B. Fullerton, it is a productive garden. The work was undertaken by the railroad people to show what could be done with the so-called waste lands of Long Island.

A. H. FUNNELL, Secretary.

CHICAGO FLORISTS' CLUB.

The Florists' Club held its regular monthly meeting Oct. 11, with President Hanswirth in the chair. The attendance was unusually large. Officers for the ensuing year were nominated as follows: H. N. Bruns, president; Leonard Kill, vice-president; Edgar Saunders, treasurer; L. H. Winterson, recording secretary; Henry Klunder, financial secretary. Flower show matters occupied most attention, and if one may judge from the enthusiasm shown this will be the greatest exhibition ever held in Chicago. A banquet to be held Nov. 8 was decided upon. This will take place Thursday of show week, and a committee consisting of A. G. Simmons, Henry Klunder and F. F. Benthey were appointed to make preparations for this affair.

COMING FLOWER SHOWS.

New Haven Horticultural Society, Music Hall, New Haven, Ct., Nov. 6-8.
 Maryland State Horticultural Society, December 5, 6, Baltimore, Md.
 Tarrytown Horticultural Society, Music Hall, Tarrytown, N. Y., Oct. 30-Nov. 1.
 Dobbs Ferry Horticultural Society, Town Hall, Dobbs Ferry, N. Y., Nov. 9-10.
 New Jersey Floricultural Society, November 5, 6, in the hall of the Woman's Club, East Orange.
 Phipps Conservatory, West Park, Allegheny, Pa., opens Nov. 4. Chrysanthemums, orchids, begonias.
 United Bay Shore Horticultural So-

ciety, Carleton Opera House, Bay Shore, N. Y., changed to Nov. 1-3.

Nassau County Horticultural Society, October 31 and November 1, at Pembroke Hall, Glen Cove, L. I.

W. M. Lindsay of Birmingham, Ala., has added another to the handsomely equipped florist stores of the South, and had a formal opening on October 17, made memorable with music and souvenirs.

Richard Eichling, formerly with W. Rehm, has taken the position of manager of the branch store of J. A. Schindler & Co., 833 Canal street, New Orleans.

SAMUEL MURRAY Florist

Coates House Conservatory
 1017 BROADWAY, KANSAS CITY, MO
 Both 'Phones 2670 Main

FRED C. WEBER FLORIST

4326-28 OLIVE STREET ST. LOUIS, MO.
 Established 1873
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BAMBOO STAKES

The Yokohama Nursery Co., Ltd.
 31 Barclay Street, New York

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

571 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
 Cable Address, ALEXCONNELL

YOUNG & NUGENT

42 West 28 St., NEW YORK
 "FLOWERS BY TELEGRAPH"

JOHN BREITMEYER'S SONS

Cor. Miami and Gratiot Aves.
 DETROIT, MICH.

Artistic Designs . . .
 High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N. Y.

GENTLEMEN:

You can now get finest

LILY OF THE VALLEY

our EXCELLANTA

in original cases of five hundred pips, the best and strongest in the market, so that you can order a small quantity any time in the season whenever you need it.

We expect much demand for these small cases Lily of the Valley, and as we will have only 500 cases on hand with which to try this novelty, we advise you to send your order soon, stating at different dates on which you would want cases sent you. If you are not known to us please send cash with order and deduct 3%.

If you are not entirely satisfied you can return the Valley at our expense. Price per original case of 500 finest Lily of the Valley EXCELLANTA \$7.00.

Yours very truly,

JOHN SCHEEPERS & CO., 2-6 Old Slip
NEW YORK

ANNOUNCEMENT

We have opened a

WHOLESALE COMMISSION FLORISTS' DEPARTMENT

in addition to our regular wholesale EVERGREENS and FLORISTS' SUPPLIES

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO.

8, 11 and 15 Province Street and 9 Chapman Place,
L. D. Telephone, Main 2618 **BOSTON, MASS.**

TWIN CITY NOTES.

The East High School are making nice plantings of shrubs under the direction of Park Supt. Theo. Wirth.

Henry Kusik has moved from 121 Western avenue to 69 Western avenue. Mr. Kusik is progressive and up-to-date.

H. W. Raach is the proprietor of a new business. Cut flowers and plants; same is carried on in one of the store-rooms of the West Hotel.

The Lakewood Cemetery Association are making improvements along several lines, among them the grading of some low ground, and a portion of this bridged with a fine stone arch. Ornamental plantings will be made and the whole will be a decided improvement in this beautiful cemetery.

NEWS NOTES.

Harry Kelley has recently opened a flower store at Pemberton Square, Boston.

The C. A. Dahl Co. of Atlanta, Ga., have in their new rooms in the Cand-

ler Building an artistic and beautiful establishment.

J. E. Bonsall has again secured possession of the greenhouses on Garfield avenue, Salem, Ohio, and will carry on a wholesale and retail business.

John J. Johnston of Providence, R. I., was sustained by the Court in the suit for ejection brought against him by the owners of the building he occupies, as he has a yearly tenancy.

John Lewis Childs of Floral Park, N. Y., who has recently purchased a tract of land in Suffolk County, is awaiting the decision of the railroad company in regard to giving him a station on the property before making extensive developments which he has in mind.

The glass area of the new greenhouses of the E. G. Hill Co., Richmond, Ind., on the west side of the city, is 100,000 feet. One house will be devoted to sweet peas for the Christmas market, and large space will be given to carnations. The transfer of the present plant to the new site will be gradual, and it is estimated that the moving process will cover a period of ten years.

CHRYSANTHEMUM COMOLETA.

The accompanying cut shows one of the most promising of the chrysanthemum introductions of Nathan



Smith & Sons for the coming season. Comoleta is the name of this sturdy bright yellow variety, which scored 88 points at Cincinnati on October 20, 1906.

PHILADELPHIA BULB TRADE NOTES.

That May-flowering tulips are still a popular subject is evident from the big demand again this season. Not half enough have been ordered.

Lilium Henryi and Superbum are two items sought after. The horticultural press is to blame. It is one of those tangents for which no man can account.

Once in a while they do talk about things that can be had. Narcissus poeticus, for instance. Orders for lots of twenty-five thousand for naturalizing are nothing uncommon nowadays in that connection. Good. It's a fine thing and there is plenty of it around.

Hyacinths are scarce this year. Last year it was tulips. But it is early yet. In a week or two we expect to see the biggest kind of a scramble for every kind of hardy bulbous flower. Tulips will be scarce inside of a couple of weeks. Also scillas, snowdrops, crocuses and a host of other hardy things.

CATALOGUES RECEIVED.

Pittsburg Florists' Exchange, 15 Diamond square, Pittsburg, Pa. List of florists' wire designs and general supplies for retailers' use. Try them.

O. H. Weber of Sault Ste. Marie, Mich., has bought the Egerton greenhouses and store.

BUY WHITMANI

THE RECORD BREAKER FERN—IT HAS NO COMPETITOR

Plants in 2½ inch pots, \$25 per 100;
\$200 per 1000

Fine Specimens in 5-inch pots, \$1 each;
6-inch, \$1.50 each; 8-inch, \$5

H. H. BARROWS & SON, Whitman, Mass.

300,000 NARCISSUS 300,000

We have 60 cases, 5000 bulbs each, Narcissus Single varieties mixed, including such as Golden Spur, Emperor, Fairy, Sir Watkin, Henry Irving, Trumpet Major, Princeps, Horsfieldii, etc. Just the kind for planting outside for Spring Blooming.

Per 1000 - \$7.00; per Case 5000 - \$30.00

STUMPP @ WALTER CO., - 50 Barclay Street, NEW YORK

Seed Trade Topics

The pure food law enacted at the last session of Congress appears to be a pretty drastic measure as interpreted by Secretary Wilson. If the Government inspectors do their duty, the public can feel reasonably assured of fairly pure food products. The development of the coming industry has reached such proportions that nearly all food products are now put up in glass or tins, and seedsmen are directly interested by the fact that they furnish the seed for practically all of the vegetables packed. It will interest them to know that the products of the seeds they furnish will be pure and wholesome. It should be the aim of the seedsmen to improve and perfect those varieties used by canners, to the end that the best possible results may be obtained. Co-operation between the seedsmen and the canners should be sought, for the better the product the larger will be the consumption, and the larger the demand for seeds. While goods of inferior quality may often be packed from the best and purest strains of seeds, yet the fact cannot be questioned that the quality of the seed is a most important factor. Most of the leading canners—those who feel a justifiable and honest pride in their goods—are willing to pay for high grade seeds, and any seedsmen who can demonstrate that he has strains of superior quality can get a higher price than he can for ordinary stocks. This should be an incentive to bring their stocks to the highest possible degree of perfection, and it will indeed be strange if the more enterprising seedsmen do not appreciate this fact and act accordingly. They should, and indeed they do, take as much pride in the purity and excellence of their seeds as the canners do in their product.

The many friends of Mr. J. E. Northrup, will be happy to learn that he is in a fair way to recover his long lost health. For several years Mr. Northrup's health has been very unsatisfactory and for the past two years at least has caused his friends grave anxiety. His physician now assures him that in a few months he will be as well and strong as ever.

It is reported that the recent heavy snows in the west have damaged sugar corn more or less, but the damage will have to be pretty serious to cause any alarm.

Rape seed is said to be in very short supply this year, but this will not cause many seedsmen to lie awake o' nights.

We learn from Columbus, Ohio, that tomato seed will be a short crop. The Livingston Seed Company estimate that they have secured about half an average crop of seed. The shortage is due to so much wet weather during July and August, which by interfering with fertilization caused very little fruit to set early in the season. After



DOUBLE SWEET SCENTED PEONIES PLANT NOW

Selected Roots with 3 to 5 Eyes, from a splendid collection 6 sold at dozen rate; 25 at 100 rate

CHINENSIS VARIETIES

	Per Doz	Per 100	Per Doz	Per 100			
Pink Shades	25	\$1.50	\$8.00	75	2.00	10.00	
Red	25	1.00	8.00	Mixed—all	20	1.25	7.00

PEONY OFFICIALIS—The "old-fashioned Peony," flowering about two weeks earlier than the Chinensis variety, with large, fragrant double flowers, the "Rubra" or crimson being of the most popular of this species for cutting.

Rubra—Brilliant glowing crimson, 20c each, \$1.00 per doz., \$7.00 per 100. **Rosea**—Bright rosy pink 25c each, \$1.50 per doz., \$12.00 per 100. **Alba**—Blush-white, 25c each, \$2.00 per doz., \$15.00 per 100.

Send for our complete PEONY LIST of Named Sorts—Pegonias, Gloxinas and Japan Lily Bulbs, due to arrive early in November. Write for prices.

JOHNSON SEED CO., 217 Market St., Philadelphia, Pa.
Herbert W. Johnson, of the late firm of Johnson & Stokes, President

CYCLAMEN SEED

MICHELL'S GIANT STRAIN

	100 Seeds	1000 Seeds
GIANT WHITE.....	75c	\$6.00
GIANT PINK.....	75c	6.00
GIANT RED.....	75c	6.00
GIANT WHITE with RED EYE.....	75c	6.00
GIANT MIXED all colors	60c	5.00

HENRY F. MICHELL CO.,

1018 MARKET STREET, PHILADELPHIA, PA.
FLOWER SEED SPECIALISTS

Asparagus Plumosus Nanus

NEW CROP—GREENHOUSE GROWN

100 Seeds.....	60c
500 ".....	\$2.25
1000 ".....	4.00

Our latest Fall Catalogue of Bulbs, Seeds and Seasonable Supplies now ready.

H. E. FISKE SEED CO.

is now open for business.

BULBS

In quantity selected in Holland from growers of long experience in the growing of Bulbs for our markets.

Excellent Bulbs Excellent Show Room
Call and See Us

12 and 13 Faneuil Hall Square, Boston

H. E. FISKE SEED CO.

PANSIES

International, fine strain: English Prize, Parisian, finely variegated and shaded; also Giant Trimardeau, all colors and striped; also Odier, beautifully spotted.
\$3.00 per 1000; 50c per 100, by mail.

F. A. BALLER, Bloomington, Ill.

July the fruits set better, and the frost holding off so late helped very much. Tomato seed of good quality will certainly be good property in 1907.

David A. Dean, well known in the seed trade, has taken a position with W. W. Rawson & Co. of Boston.

Mr. J. K. M. L. Farquhar returned from his European trip Wednesday, Oct. 24, on the steamer Ivernia

The firm of Rennie & Pino of Providence, R. I. has been dissolved by mutual consent.

Thorburn's Bulbs

Lilium Longiflorum

7 to 9 in	100	1000	8 to 10 in	100	1000
	\$5.00	\$45.00		\$7.00	\$68.00

Also many of the leading sorts of

Hyacinths, Tulips and Narcissus Pandanus utilis

Fresh seeds just received \$6.00 per 1000 seeds.

Send for Trade List.

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WHOLESALE FLOWER MARKETS
TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO October 23	ST. LOUIS October 22	PHILA. October 22	BOSTON October 25
ROSES				
Am. Beauty, Fan. & Sp.	30.00 to	25.00 to	30.00 to	25.00 to 35.00
" Extra.....	15.00 to	20.00 to	15.00 to	15.00 to 20.00
" No. 1.....	10.00 to	12.00 to	8.00 to	12.50 to 12.00
" Lower grades.....	4.00 to	8.00 to	4.00 to	6.00 to 8.00
Bride & "Maid—Fan. & Sp.....	5.00 to	6.00 to	5.00 to	6.00 to 8.00
" Ordinary.....	3.00 to	4.00 to	3.00 to	4.00 to 4.00
Golden Gate, Fancy.....	5.00 to	6.00 to	5.00 to	6.00 to 8.00
" Ordinary.....	3.00 to	4.00 to	3.00 to	4.00 to 4.00
Liberty, Fancy.....	5.00 to	6.00 to	5.00 to	6.00 to 8.00
" Ordinary.....	3.00 to	4.00 to	3.00 to	4.00 to 4.00
Richmond, Fancy.....	5.00 to	6.00 to	5.00 to	6.00 to 8.00
" Ordinary.....	3.00 to	4.00 to	3.00 to	4.00 to 4.00
Kaiserin, Carnot, Chateaux, Fancy.....	5.00 to	6.00 to	6.00 to	8.00 to 8.00
" Ordinary.....	3.00 to	4.00 to	3.00 to	4.00 to 4.00
CARNATIONS				
Fancy.....	3.00 to	4.00 to	3.00 to	4.00 to 4.00
Ordinary.....	1.50 to	2.00 to	1.50 to	2.00 to 2.00
MISCELLANEOUS				
Chrysanthemums.....	15.00 to	25.00 to	5.00 to	30.00 to 10.00 to 40.00
Cattleyas.....	..... to	50.00 to	..... to	40.00 to 50.00
Lilies.....	..... to	18.00 to	..... to	15.00 to 8.00 to 12.00
Violets.....	..... to	..... to	..... to	..... to .35 to .60
Lily of the Valley.....	3.00 to	4.00 to	3.00 to	4.00 to 5.00
Dahlias.....	2.00 to	5.00 to	..... to	1.50 to 3.00
Tuberose.....	4.00 to	6.00 to	..... to	3.00 to 5.00
Nigodette.....	2.00 to	5.00 to	..... to	..... to .50
Adiantum Cucatum.....	.75 to	1.50 to	1.00 to	1.25 to 1.00 to .50 to 1.00
" Croweatum.....	..... to	1.50 to	..... to	1.00 to 1.50
Smilax.....	..... to	12.50 to	..... to	12.50 to 12.50 to 15.00 to 8.00 to 12.00
Asparagus Plumosus, strings.....	35.00 to	50.00 to	25.00 to	50.00 to 50.00 to 50.00
" " Spregeri buoches	35.00 to	50.00 to	25.00 to	100.00 to 35.00 to 50.00 to 20.00 to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON Chrysanthemums are coming on apace and their effect is seen in the general tone of the market, particularly in the case of roses and carnations, which begin now to lag and to accumulate. Lily of the valley has enjoyed a better demand this fall than ever before at a corresponding period. Carnations, while fairly good as to size of bloom, are usually short stemmed. American Beauty roses are excellent. Other roses only fair as to quality.

BUFFALO The first part of the week was a lively one amongst the trade, many weddings being the main feature. Perfect Indian summer prevailed. The down-town stores were busy and the department store florists having special sales, report business good. A few warm days brought on the stock too fast, especially roses, which were an over-supply. Chrysanthemums are entering the market. Polly Rose, Glory Pacific, Kolb and Halliday, all of which have been selling well. Beauties are of fine quality, demand lighter than previous week. Violets are improving daily, while lily of the valley, swainsona, lilies and other stock are in good supply.

CHICAGO The last week was a very active one in wholesale circles, the cool weather having a tendency to shorten up the market, particularly in carnations, which have been very difficult to obtain. Beauties and white roses were also scarce, short and medium Beauties being almost out of the question. Milder weather at the end, together with the appearance of large quantities of chrysanthemums eased things up considerably by Saturday. A great many chrysanthemums have been used in the numerous store openings. Violets and lily of the valley are selling well.

COLUMBUS The week just closed has seen the best trade in a long time, the overshadowing factor was the annual convention of the American Street and Interurban Railway Association. The exhibits at this convention were splendid, and every booth was kept radiant with foliage plants, and unlimited quantities of cut flowers. The chrysanthemum season is fairly on, and great quantities are being sold. This week has brought us Omega, Opah, and Robert Halliday; but as yet anything in a good red is conspicuous by its absence. Carnations are still not over plenty, although the quality is better than it was. Roses are in good supply, especially American Beauties.

DETROIT Business in general would be much better were it not for the shortage in cut flowers. Chrysanthemums are coming a little more plentifully but still not enough. Roses are greatly improved in quality but are behind in the demand. Carnations are very good for this season of the year but as scarce as gold certificates even if we do come close to the election time. Violets are beginning to show their small pale faces timidly.

INDIANAPOLIS A recent frost has cut off all outdoor flowers, and the result is an advance on all the line. The deficiency is made up by chrysanthemums, which are in good supply. Of good carnations there are about half enough to meet the demand. Beauties still lead in quality and demand. Nearly all tea roses are plentiful, with some varieties equal to mid-winter quality. Violets are improving in quality, but are not at all plentiful. Lily of the valley and cartleys are in fair supply and much used for weddings at the present time. Any quantity of anything in the green goods market is to be had now.

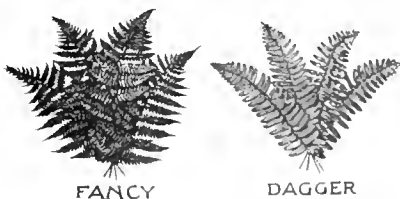
LOUISVILLE Business conditions the past week were very satisfactory. Carnations are in good form and are picked up as soon as they appear. Roses are more abundant, as are also chrysanthemums and lilies. Violets and lily of the valley are short in supply. Other stock can be had in good quantities.

NEW YORK More than a week of dark weather has prevented an over supply of chrysanthemums and prices rule higher than usual for all good blooms. Lack of sunshine has left Bridesmaid roses without color and a very small proportion of the receipts of this rose is salable at a price. Small roses generally are too plentiful and too inferior in quality to realize much

more than the minimum price. Killarney and Chatenay hold up well in quality. American Beauties of the special grade find a ready market, but inferior stock is not wanted. Carnations are not in over supply, but the quality does not improve, and prices are not steady. Gardenias, even with the extra supply, are popular with the best trade and command good prices for choice stock. The call for violets is not so keen as last week, and the top price is to be had for small quantities; they are much improved in color and size. A fixed price is not possible where sale of asparagus, particularly Sprengeri, smilax or adiantum is concerned, for the demand is irregular and supply above requirements.

PHILADELPHIA Trade conditions continued satisfactory the past week, with the usual volume for the season. Chrysanthemums are now more plentiful and have fallen in price but the demand is very good. Roses are getting better right along. Richmond, Kaiserin, and Killarney are in good shape and selling well. Lily of the valley is good and moving nicely. Violets are much better quality but none too plenty yet. Orchids are plentiful and good both as to quality and variety.

WASHINGTON Regardless of bad weather, the fall trade continues to improve. Chrysanthemums are coming in considerable quantities, the quality thus far being but fair. Roses are improving, very good stock of American Beauty, Bride, Bridesmaid, Killarney, Richmond and Cardinal being on the market. The prevailing warm and wet weather, if it continues, will, however, have a bad effect on roses and carnations. The latter are now very scarce, due largely to losses in the fields. Further losses in the houses will cause a carnation famine, unless supplies materialize from some at present unknown source.



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Ready to Talk Business with a Good Lily of the Valley and Bulb Grower

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Oct. 20 1906	First Half of Week beginning Oct. 22 1906		Last Half of Week ending Oct. 20 1906	First Half of Week beginning Oct. 22 1906
Roses			Carnations, Fancy	2.00 to 4.00	2.00 to 4.00
Am. Beauty, fan and sp.	15.00 to 25.00	15.00 to 25.00	Carnations, Ordinary	1.00 to 2.00	1.00 to 2.00
" extra.	10.00 to 12.00	10.00 to 12.00	Chrysanthemums	5.00 to 25.00	5.00 to 25.00
" No. 1.	5.00 to 8.00	5.00 to 8.00	Cattleyas	30.00 to 40.00	30.00 to 40.00
" Lower grades	1.00 to 3.00	1.00 to 3.00	Lilies	8.00 to 12.00	8.00 to 12.00
Bride & 'Maid, fan and sp.	4.00 to 6.00	4.00 to 6.00	Lily of the Valley	1.00 to 3.00	1.00 to 3.00
" Ordinary	.50 to 2.00	.50 to 2.00	" " " "	..... to .....	..... to
Golden Gate, fancy.	4.00 to 8.00	4.00 to 8.00	Tuberose	..... to .....	..... to
" ordinary	.50 to 2.00	.50 to 2.00	Mignonette	..... to .50	..... to .50
Liberty, fancy	4.00 to 8.00	4.00 to 8.00	" " " "	..... to .75	..... to .75
" ordinary	.50 to 2.00	.50 to 2.00	Adiantum Cuneatum	1.00 to 1.50	1.00 to 1.50
Richmond, fancy	4.00 to 8.00	4.00 to 8.00	" Croweanum	8.00 to 10.00	8.00 to 10.00
" ordinary	.50 to 2.00	.50 to 2.00	Smilax	15.00 to 25.00	15.00 to 25.00
Kaisenn, Carnot, Chatenay, fancy.	4.00 to 6.00	4.00 to 6.00	Asparagus Plumosus	10.00 to 15.00	10.00 to 15.00
" " " " ordinary	.50 to 3.00	.50 to 3.00	" " " " & Sprenger, bunches to to

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WHOLESALE FLOWER MARKETS. — PER 100. TO DEALERS ONLY.

	CINCINNATI October 16	DETROIT October 16	BUFFALO October 22	PITTSBURG October 24
ROSES				
Am. Beauty, Fan, and Sp.	30.00 to 40.00	30.00 to 40.00	20.00 to 25.00	20.00 to 25.00
" Extra	20.00 to 25.00	20.00 to 25.00	15.00 to 20.00	15.00 to 20.00
" No. 1	15.00 to 20.00	20.00 to 25.00	10.00 to 15.00	10.00 to 15.00
" Lower grade	5.00 to 10.00	10.00 to 15.00	3.00 to 5.00	3.00 to 5.00
Eride and 'Maid - Fan, and Sp.	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	4.00 to 6.00
" Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Golden Gate, Fancy	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	4.00 to 6.00
" Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Liberty, Fancy	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	4.00 to 6.00
" Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Richmond, Fancy	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	4.00 to 6.00
" Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Kaiserin, Carnot, Chateau, Fancy	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	4.00 to 6.00
" Ordinary	3.00 to 4.00	4.00 to 6.00	3.00 to 4.00	3.00 to 4.00
CARNATIONS				
Fancy	1.50 to 2.00	2.50 to 3.00	2.00 to 3.00	3.00 to 4.00
Ordinary	.75 to 1.00	1.50 to 2.00	1.50 to 2.00	1.00 to 2.00
MISCELLANEOUS				
Chrysanthemums	15.00 to 25.00	12.00 to 20.00	6.00 to 10.00	6.00 to 10.00
Cattleyas	8.00 to 10.00	12.50 to 15.00	5.00 to 7.00	15.00 to 20.00
Lilies	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	4.00 to 5.00
Lily of the Valley	1.00 to 2.00	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00
Dahlias	1.00 to 2.00	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00
Tuberose	1.00 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
Mignonette	1.00 to 1.50	1.50 to 2.00	1.00 to 1.50	1.00 to 1.50
Adiantum Cuneatum	1.00 to 1.50	1.50 to 2.00	1.00 to 1.50	1.00 to 1.50
" Croweanum	1.00 to 1.50	1.50 to 2.00	1.00 to 1.50	1.00 to 1.50
Smilax	10.00 to 12.50	12.50 to 15.00	12.50 to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	50.00 to 60.00	40.00 to 50.00	30.00 to 50.00
" " Sprengeri, bunches	25.00 to 30.00	35.00 to 40.00	25.00 to 30.00	20.00 to 30.00

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Henry A. Dreer, Philadelphia. For page see List of Advertisers.

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

Adiantum Farleyense, 2 1/2-in. strong stuff, for growing on, or for Fern dish, \$15.00 per 100; \$140.00 per 1,000. J. A. Peterson, Westwood, Cincinnati, O.

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Asparagus Sprengerii, large, field-grown clumps, \$5.00 100. H. W. Vose, Hyde Park, Mass.

Asparagus plumosus nanus and Sprengerii, 2 1/2-in., \$2.50 100. Carl Hagenburger, West Meador, Ohio.

Asparagus plumosus and Sprengerii, fine 2-in. stock, \$2.00 100; \$18.00 1000. Cash. Lewis Ulrich, Tiffin, Ohio.

Asparagus Plumosa, 2 in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erle Floral Co., Erie, Pa., or Wm. F. Kasting, 285 Ellicott St., Buffalo, N. Y.

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Begonia Gloire de Lorraine and Turford Hall, propagated from leaf cuttings, \$15.00 100; \$140.00 1000; 4-in., \$40.00 100. Cash. J. A. Peterson, Westwood, Cincinnati, O.

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COLEUS.

Doctor Ross 2 1/2 in., \$1.00 dozen, cash. For other fancy and standard sorts write Rooney Bros., West Grove, Pa.

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Folding cut flower boxes, the best made. Write for list. Holton & Huukel Co., Milwaukee, Wis.

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Dahlia bulbs, Field Clumps, fifty varieties, cheap for cash or will exchange for what you have I can use. Prefer Roses, Phlox, Geraniums, etc. Geo. H. Walker, Dahlia Specialist, Dighton, Mass.

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FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

FLORISTS' FERTILIZER.

A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilacs, mums, etc., it has never been surpassed. Address The Barwell Agricultural Works, Waukegan, Ills. Established at Leicester, England in 1800.

Fertilized Manure Co.,
31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.
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Young & Nugent, 42 W. 28 St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

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LILIUM HARRISII.

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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp.,
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PRIMULAS.

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Primula Obs. Grandiflora, 4 in. pots,
\$6 per 100. Cash, please. A. Relyea & Son,
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Primula Obs. Grandiflora, 2 in. pots
\$3.00 per 100. Edward Allen, Plainfield,
Conn.

PUTTY.

Beid, Hammond, Fishkill in Hudson, N. Y.
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Baby Rambler
American Beauties, 2 1/2 in., \$7.50; 3 in.,
\$8.00; 1000 Cash. J. H. Bartram,
Landsdowne, Pa.

ROSES—Continued.

Roses, Baby Rambler, the strongest dor-
mant stock in the country, \$25.00 per 100;
2 1-2 in. pot plants, \$7.00 per 100, \$65.00
per 1000. Brown Bros. Co., Rochester,
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SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

SPIRAEA.

Warnaar & Co., Sassenheim, Holland.
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STEAM TRAP.

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TOMATO PLANTS.

Strong Tomato plants for forcing, \$2.00
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Princess Violets, strong, field grown
plants \$45.00 per 1000, cash. George W.
Pullick, Cochituate, Mass.
Gov. Herrick Violet, No. 1 shape, 2 1-2 in.
pots, ready to bench, \$2.00 per doz., \$10.00
per 100, \$80.00 per 1000. W. A. Calhoun,
3226 Euclid Ave., East Cleveland, Ohio.

WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue.
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Phillip F. Kessler, 55 W. 26th St., New York.
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Julius Lang, 53 West 30th St., New York.
For page see List of Advertisers.
A. H. Langjahr, 55 W. 28th St., New York.
For page see List of Advertisers.
James McMann, 42 W. 28th St., New York.
For page see List of Advertisers.
Chas. Millang, 50 West 29th St., New York.
For page see List of Advertisers.
Frank Millang, 55-57 W. 26th St., New
York.
For page see List of Advertisers.
A. Moltz, 55-57 W. 26th St., New York.
For page see List of Advertisers.
John I. Raynor, 49 W. 28th St., New York.
For page see List of Advertisers.

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for Samples. E. A. BEAVEN, Evergreen, Ala.

WHOLESALE FLORISTS—Continued
New York.

- W. F. Sheridan, 29 W. 28th St., New York.
For page see List of Advertisers.
- Traendly & Schenck, 44 W. 28th St., New York.
For page see List of Advertisers.
- Hicks & Crawbuck, Inc., 76 and 78 Court St. Brooklyn, N. Y.
For page see List of Advertisers.
- John Young, 51 W. 28th St., New York.
For page see List of Advertisers.

Philadelphia.

- W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
For page see List of Advertisers.
- Leo Nlessen Co., 1217 Arch St., Philadelphia, Pa.
For page see List of Advertisers.
- The S. S. Pennock-Meehan Co., 1608-18 Ludlow St., Philadelphia, Pa.
For page see List of Advertisers.
- Edward Reid, 1526 Ranstead St., Philadelphia, Pa.
For page see List of Advertisers.

Pittsburg.

- J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
For page see List of Advertisers.
- Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
For page see List of Advertisers.

SAN FRANCISCO NOTES.

At a meeting held recently in Par-Lodge in Golden Gate Park the Pacific Coast Horticultural Society decided to omit holding the annual November flower show, and to substitute for it an exhibition next spring. The election of officers for the next twelve months consumed an hour's time, and then in the adjoining home of the park superintendent, John McLaren, the society was royally banqueted by the superintendent until a late hour. The officers elected were: President, J. W. Bagge, re-elected; vice-president, F. Sultz; recording secretary, T. F. Taylor; financial secretary, J. H. Atkinson; treasurer, F. Cleis; librarian, John Thiergasten; usher, H. Plath.

"Give Burbank a Rest" is the title of editorial comment in a city paper of October 11. It reads this way: "A stormy remonstrance compiled of equal parts of pleading and indignation is on distribution by a sort of volunteer organization described by its members as 'the friends and relatives of Luther Burbank.' It seems that Mr. Burbank is harvesting a full crop of the penalties of greatness and its garnering leaves no time to pay attention to the eccentric tomato of his choice or the boneless cactus that he would embrace were not so many curious idiots looking. Now, Mr. Burbank's volunteer 'friends and relatives' desire to protect him from the intrusive sightseers who regard him as the keeper of a museum in which he is himself the chief exhibit. Further, they, the 'friends and relatives,' seek to answer by circular some of the ten thousand questions with which they say, in a strange and interesting confusion of metaphors, 'the mail bags continually boil and seethe.'"

*** "Give Burbank a rest. Let him pursue in peace the daisy and the peach and the jim dandy, be the official dry nurse of the blameless potato and the foster-father of the hot and rebellious pepper. 'Tis a fine, confused family."

DURING RECESS.

On the evening of Oct. 23 representatives of the Wholesale Florists and the Waban Rose Conservatories had a tilt on the Adams Square bowling alleys, Boston, with the following totals:

Wholesalers.	
Reynolds	249
Fallon	245
Donovan	265
Campbell	234
Osgood	191
1181	
Waban Rose.	
Donohue	247
White	244
Laming	247
Hannon	243
Cartwright	204

FIRE RECORD.

The greenhouses of W. E. Williams, Johneshurg, Pa., were destroyed by fire on the 16th. Loss \$1000.

M. McGuire of Poughkeepsie, N. Y., lost about \$300 through fire, which originated in the boiler house, thought to be incendiary, on the 15th.

F. J. Norton of Bucyrus, O., met with a heavy loss on the 15th through a fire which started in a neighbor's barn. Partly covered by insurance.

We regret to have to hold until next week the balance of Mr. Vellie's instructive paper on greenhouse construction. Other important communications are also held over because of lack of room.

WANTS, FOR SALE, ETC.
Advertisements in this column one cent a word. initials count as words. Cash with order.

ORCHID GROWER Wanted for private place in California. One acquainted with the growing and care of all classes of orchids; must be thoroughly competent to take care of same. Has one assistant. Must be single, sober and industrious. State former experience, age and salary expected. Address E. Stabler, 5 Lake St., Chicago, Ill.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED by young man with eighteen years' all-round experience. Good grower of cut flowers and other stock. Good wages expected. Good references. Address Roses, care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED by single young man as assistant on private place; have considerable experience in greenhouses. Address W. McA., Box 302, Millbrook, N. Y.

SITUATION WANTED—Private place preferred as head gardener. Married; two children; good reference. A. N., care R. & J. Parquhar Co., Boston.

SITUATION WANTED by gardener of adequate experience, to take management of estate, with or without greenhouses. Address H. J., care HORTICULTURE, 11 Hamilton place, Boston.

SITUATION WANTED—As private gardener on place where there is a range of greenhouses. Best of references. Over 7 years in last place. Expert rose grower. Married. Address J. J., care HORTICULTURE.

WANTED by John H. Taylor, Bay Side, L. I., N. Y., married man to work in greenhouses. A fine opportunity to learn rose growing. Good wages and home.

WANTED—A good, all around man for florist's store, with good reference; wages \$18.00 per week. Apply to Coun. Ave. and 11 Street, Washington, D. C.

WANTED—Experienced florist for high class city store. Apply in person or write to W. H. Traendly, 100 West 17th Street, New York City.

WANTED—Medium sized second hand hot water boiler. H. W. Vase, Hyde Park, N. Y.

New Offers in This Issue.

- ASPARAGUS PLUMOSUS AND SPRENGERI.**
Scharff Bros., Ven Wert, Ohio.
For page see List of Advertisers.
- BABY RAMBLERS, AZALEA INDICA**
F. W. O. Schmitz, Prince Bay, N. Y.
For page see List of Advertisers.
- CHRYSANTHEMUM OCTOBER FROST.**
Nathan Smith & Son, Adrian, Mich.
For page see List of Advertisers.
- GIANT CYCLAMEN SEEDS.**
Rickards Bros., 37 E. 19th St., New York.
For page see List of Advertisers.
- LILY OF THE VALLEY EXCELLENTA.**
John Schreepers & Co., 24 Old Slip, N. Y.
For page see List of Advertisers.
- NARCISSUS.**
Stumpp & Walter Co., 50 Barclay St., N. Y.
For page see List of Advertisers.
- ORCHIDS FOR BEGINNERS.**
J. A. Manda, 191 Valley Road, W. Orange, N. J.
For page see List of Advertisers.
- PANDANUS UTILIS SEEDS.**
J. M. Thorburn & Co., 33 Barclay St., New York.
For page see List of Advertisers.
- PANSIES.**
F. A. Baller, Bloomington, Ill.
For page see List of Advertisers.
- PEAT.**
F. J. Scott & Co., Loyd, N. Y., Box 24.
For page see List of Advertisers.
- PEONIES.**
Johnson Seed Co., 217 Market St. Phila.
For page see List of Advertisers.

Tobacco Paper IS THE **STRONGEST, BEST PACKED, EASIEST APPLIED.**

24 sheets.....	\$ 0.75
144 sheets.....	3.50
288 sheets.....	6.50
1728 sheets.....	35.10

“NICO-FUME” LIQUID
OVER 40% NICOTINE
By far the **CHEAPEST.**
JUST NOTE PRICES!
Pint.....\$ 1.50
1/2 Gallon..... 5.50
Gallon..... 10.50
5 Gallons..... 47.25

Furnishes the Most Nicotine for the Money!
... Manufactured by ...
THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

PULVERIZED SHEEP MANURE

STARVED ROSE BUSHES NEVER BLOOM
and the successful florist wants more than the ordinary bloom and stunted stem—he wants all there is in the soil—the bush—the stem—the bloom.
Don't starve the roots.
Put away your bushes this fall with plenty of fall and spring food for the roots.
The richest root food, stem and bloom producer you can use!

Wizard Brand Pulverized Sheep Manure
It goes further than any other fertilizer, costs less, no waste—no refuse or seeds.
Special prices to florists and greenhouse operators.
Write for Booklet.

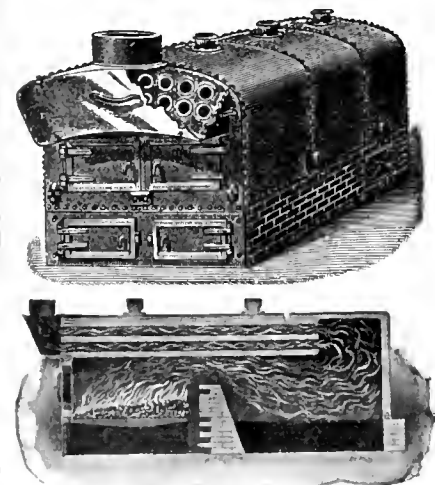
The PULVERIZED MANURE CO.
31 Exchange Ave., CHICAGO

GREENHOUSES BUILDING AND PROJECTED.

New.
East Hartford, Conn.—C. R. Sadd, one house.
Yalesville, Conn.—Cha. McKiernan, one house.
Great Barrington, Mass.—F. S. Pearson, three houses.
Valparaiso, Ind.—A. Londenberg & Son, range of houses.
Logansport, Ind.—John A. Newby & Son, one house, 30x111.
Additions.
Terre Haute, Ind.—Otto Heint, addition.
Lisbon, Me.—Harry Blethen, additions.
Plaistow, N. H.—Carl L. Loyd, one house.
Westbrook, Conn.—E. P. Stannard, one house.
Westbrook, Conn.—E. P. Stannard, one house.
Davenport, Ia.—Fjevary Park, one house, 40x75.
Thompsonville, Conn.—C. F. Brainard, additions.
Toronto, Ont.—Government House, one house, 21x75.
Peterborough, Ont.—Jordan Bros., one house, 18x112.
New York, N. Y.—Central Park, one house and five wings.
Goshen, Ind.—Goshen Floral Co., 100 ft. addition; two story cement block building, 25x44.

Kroeschell Bros. Co.

IMPROVED
Greenhouse Boiler,
35 Erie St., CHICAGO.



Boilers made of the best material; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS
German and American

261 to 287 A St., BOSTON 20-22 Canal St.

LIST OF PATENTS.

Issued Oct. 2, 1906.

- 832,169. Lawn Mower. John H. Seip, Peckville, Pa.
- 832,267. Agricultural Implement. Jeremiah C. Messer & Jefferson Cook, Buda, Texas.
- 832,436. Fruit Picker. Reginald Washburn, Worcester, Mass., assignor to the Wire Goods Co., Worcester, Mass., A corporation of Mass.

PATENTS
Trademarks and Copyrights

Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS
PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.
117 E. Blackhawk St., CHICAGO

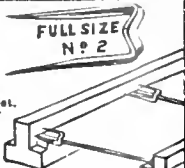


**SUN DRIED
CYPRESS
GREENHOUSE
MATERIAL**
IS THE BEST.
WRITE
FOLEY MFG. Co.
471 W. 22ND ST.
- CHICAGO -
FOR FREE CATALOGUE
" "
**VENTILATING
APPARATUS,
FITTINGS
HOT-BED SASH.**
WE MAKE SKETCHES
AND ESTIMATES.

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us. **FOLEY MANUFACTURING CO.,** 471 W. 22d Street, Chicago

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Holds Glass Firmly
See the Point
PEERLESS



Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
114 Chestnut St., Phila., Pa.



IN the U-Bar construction we encase the wooden sash bar with a galvanized steel U-shaped bar, the combined members being no larger than the smallest wooden sash bar used in other constructions.

Owing to their great strength we are enabled to eliminate all heavy iron rafters and many lateral supports, to place the bars farther apart, permitting the use of glass twenty-four inches wide, while by bending the bars at the eave line and using curved glass at this point we eliminate all cumbersome gutters, plates, posts and other shading members, resulting in a structure of extreme lightness and great strength.

The steel covering of the wooden bars eliminating interior woodwork with its tendency to decay—the galvanizing of all steel members preventing rusting—the use of the wooden core bar preventing injurious expansion and contraction of the structure and consequent glass breakage—the method of bedding the glass assuring tightness—the aluminum finish reducing repainting to a minimum—all combine to produce a structure of wonderful durability and low cost of maintenance.

Another extract from the introduction to that new catalog—send for it

Pierson U-Bar Company, Designers and Builders U-Bar Greenhouses, Metropolitan Building, 4th Avenue and 23rd Street, New York.

GURNEY HEATERS
FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE 74 FRANKLIN ST BOSTON

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2 1/2 in. pots	\$4.88	120 7 in. pots	\$4.20
1500 2 1/4 " "	5.25	60 8 " "	3.00
1500 2 1/8 " "	6.00		HAND MADE
1000 3 " "	5.00	48 9 in. pots	\$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 " "	.16	12 14 " "	4.50
		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.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money
W. H. ERNEST,
25th and M Streets, WASHINGTON, D. C.

NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE BY HAIL. For particulars address **John G. Esler, Saddle River, N. J.**



Not the Firm

who makes good promises, but the one who makes their promises good. When we tell you our boilers will heat a certain house, they will.

If we recommend a certain construction as the one that will give you the best growing conditions—you'll get exactly those conditions

There's something in knowing a firm who knows, but there's a good deal more in dealing with them.

HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.



SUPPOSE YOU HAD THREE HORSES TO DO YOUR WORK

at a cost of 50c. each a day to keep, and a good reliable firm came along and offered you a harness that because of its construction enabled two horses to do the work of those three—you wouldn't turn the offer down, that's sure. So much for the horse harness—now a word about our heat harness—the "Burnham" Boiler—we don't say two boilers will do the work of three, but that for every pound of coal you burn, the "Burnham" will harness up more heat than any greenhouse boiler made.

Lord & Burnham Co.
GREENHOUSE DESIGNERS
and MANUFACTURERS

1133 BROADWAY, cor. 26th Street, N. Y.
Boston Branch: 819 Tremont Building

The test of our heat harness is the comparative hotness of our smoke pipe and the smoke pipe of the other fellow's boiler. If the heat doesn't go up chimney, it stays in your boiler—goes into your greenhouse. Which are you making a business of heating—the chimney or the greenhouse?



The Standard Steam Trap



Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free

E. HIPPARD, Youngstown, Ohio

STANDARD PLATE GLASS CO.

Manufacturers, Importers and Jobbers

AMERICAN AND FRENCH GREENHOUSE GLASS

26-30 Sudbury Street
61-63 Portland Street

BOSTON, MASS.

SEND FOR CATALOGUE OF
**SCOLLAY HOT WATER
and STEAM BOILERS**

JOHN A. SCOLLAY

78 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY



LOOK
AT
THIS

A Steam Trap

designed for florists' work - will reduce operating expenses of steam system and pay for itself in no time. Write us.

MOREHEAD MFG. CO.
1046 Grand River Ave. DETROIT, MICH.



In a Premier Greenhouse

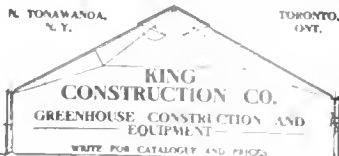
all good points are combined. There's durability, artistic appearance, ease of erection — and — ease of RE-erection.

It's a better house than is usually built; the price is ONE THIRD of that usually charged.

Send for booklet No. G-48.

Chas. H. Manley,

Premier Mfg. Works, St. Johns, Mich.



WEATHERED COMPANY

BOX 789, NEW YORK

GREENHOUSE BUILDING AND HEATING

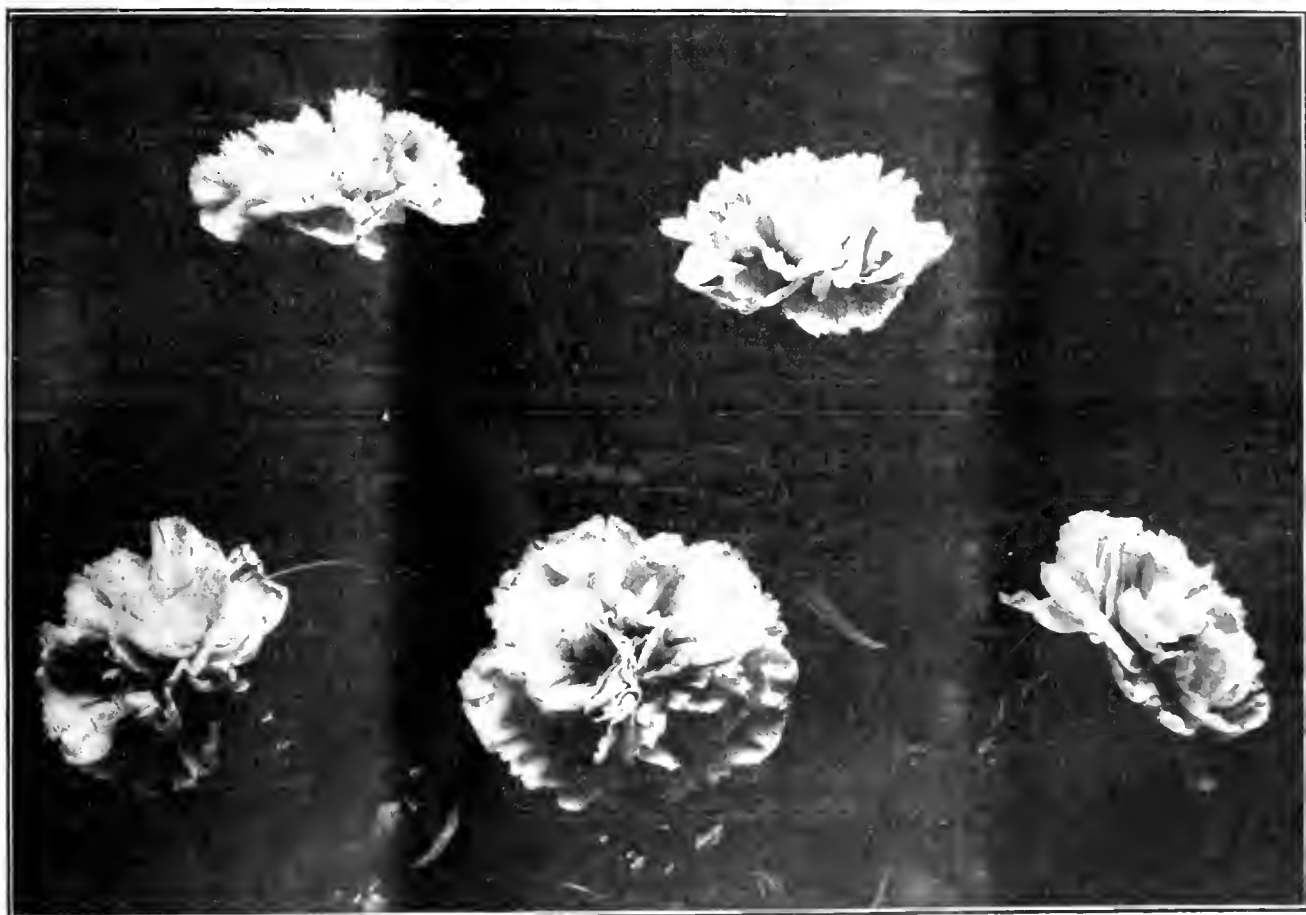
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HORTICULTURE

Vol. IV.

NOVEMBER 3, 1906

No. 18



CARNATION DEBELTANFL.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

NOW READY Easter Lilies

Should be potted at once, as Easter is early this year
Japan stocks are now arriving, and are in first-class shape

JAPAN LONGIFLORUM,	9 to 10 in. bulbs, case of 200 bulbs, \$15.00.
"	Multiflorum, 7 to 9 in. bulbs, case of 300 bulbs, \$15.00.
"	" 9 to 10 in. bulbs, case of 200 bulbs, \$17.00.
"	Giganteum, 7 to 9 in. bulbs, case of 300 bulbs, \$18.75.
"	" 9 to 10 in. bulbs, case of 200 bulbs, \$21.00.

LILIUM CANDIDUM, selected bulbs, \$5.00, per 100.

A Few of the Leading Narcissus

PAPER WHITE GRANDIFLORA, 13-15, c-m. fine bulbs, case of 1250 bulbs, \$11.25.	Per 1,000
DOUBLE VON SION, first size	\$9.00
" " extra size	12.00
" " mammoth double-nosed, or top-root.	20.00
PRINCEPS, early, single, fine bulbs	7.00
GOLDEN SPUR, the favorite single yellow	18.00
EMPRESS, a grand bicolor	20.00
ALBA PLENA ODORATA.	6.00
BARRI CONSPICUUS.	8.00
POETICUS.	4.50
POETICUS ORNATUS.	7.00
WHITE ROMAN HYACINTHS, 12 1/2 c-in., 13-15	23.00
FREESIA REFRACTA ALBA, finest Bermuda bulbs	28.00
BERMUDA BUTTERCUP OXALIS	7.50
SPANISH IRIS, mixed	7.50
CALLAS, Exhibition Bulbs, 2 in. to 2 1/2 in. in diameter.	2.50

For other bulbs and for smaller quantities, see our Wholesale Price List, in which will be found a full assortment of all kinds of bulbs for winter and spring flowering. Send for list if you have not already received one.

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

Holland Roses

Having a surplus in hand at our nursery in Holland, we can offer two-year H. P. Roses of leading varieties at very low prices.

English MANETTI Stocks

For Florists and Nurserymen

For prices and other information, please apply to

H. FRANK DARROW

26 Barclay St., NEW YORK

Wholesale and Import only

A "BREAD AND BUTTER" CARNATION

Cutting one third more than Fair Maid now in the same house. Tested four years.

Debutante

is the name. You can't find a better carnation. Rooted Cuttings ready for delivery after January 1, 1907.

\$10.00 per 100. \$95.00 per 1000.

All Clean Stock. Order Now.

J. W. HOWARD, Somerville, Mass.

VIOLETS

Lady H. Campbell & California, out of 2 1/2 inr pots. Fine healthy stock.

\$2.00 per 100; \$10.00 per 1000

Smilax 2 1/2 in. \$1.25 per 100; \$10.00 per 1000

J. C. Schmidt Co., Bristol, Pa.

GOVERNOR HERRICK THE NEW VIOLET

Originated and introduced by

H. R. CARLTON, Willoughby, O.

We have the following stock in the finest condition to plant and now is the time to plant

2 1/4 inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000
4 " " 2.50 " " 12 " " 100 " 75 " " 1000

It will pay you. Try it. Order at once.

VIOLETS

Strong Field Grown Clumps

PRINCESS OF WALES, \$5.00 per 100

CASH WITH ORDERS

CHAS. H. GREEN, Spencer, Mass.

VIOLETS

Strong Field Grown Clumps

PRINCESS OF WALES, \$5.00 per 100

J. S. SMILEY,

West Roxbury, Mass.

FERNS, CRIMSON RAMBLERS, etc.

10,000 fine Ferns, box, stocky plants, Boston, Pier-sonit, Scotti, 5 and 6-in. pots. Must be sold.
2,000 2-year old Crimson Rambler, 3 to 4 ft.; small canes, \$15 per 100

5,000 Vinca maj. var. Tired Stock, for 1 in., \$5.00 per 100; 2 1/2-in., \$2.50 per 100

50,000 Shrubs, Vines, Ampelops, Veitchii, Honey-suckles, Clematis, Wistarias, Cannas, etc., that must be sold. List Free

BENJ. CONNELL, Florist, West Grove, Pa.

Adiantum Farleyense, finished plants

\$1.50 to \$2.00 each

Pandanus Veitchii,

50c \$1.00, \$1.50 and \$2.50 each

No better value to be had anywhere.

Boston Ferns, (choice specimens)

\$2.00 each

J. A. PETERSON, FLORIST

McHenry Av., Westwood, Cincinnati, O.

ASPARAGUS CRAWSHAWII

A beautiful asparagus.

SUPERIOR TO ALL OTHERS

In many respects.

Seedlings \$3.00 per 100, \$25.00 per 1000.

Transplanted Seedlings, \$5.00 per 100, \$40.00 per 1000.

SAMPLE 10c.

JAMES CRAWSHAW

403 Plainfield St. PROVIDENCE, R. I.

BUY WHITMANI

THE RECORD BREAKER FERN—IT HAS NO COMPETITOR

Plants in 2 1/2 inch pots, \$25 per 100;

\$200 per 1000

Fine Specimens in 5-inch pots, \$1 each;

6-inch, \$1.50 each; 8-inch, \$5

H. H. BARROWS & SON, Whitman, Mass.

Some give you quality, some give quantity, I give you both!

FICUS

4-inch, 22 1/2c.; 6-inch 40c.; Stock Plants, 60c. and 75c.

FERNS

Bostons, 4-inch, 12 1/2c.; Pans, \$1.00, \$1.50 and \$2.00.

PLUMOSUS

3-inch, 5c.; 5 and 6-inch, 10c.

William C. Smith

61st and Market St.

PHILADELPHIA, PA.

No C. O. D.'s. Satisfactory references required, or the cash. Five off if remittance accompanies order.

ASPARAGUS PLUMOSUS

Exceptionally fine stock from 3-in. pots, \$5.00 per 100

Asparagus Sprengeri

From 3 1/2-in. pots, \$6.00 per 100

Write for Price on Large Lots

SCHARFF BROS., VAN WERT, O.

Boston Ferns, Fine Plants

5-in. pots 35c.

6-in. pots 50c.

7-in. pots 65c.

Immediate delivery. Cash with order.

H. N. EATON SOUTH SUDBURY, MASS

DREER SPECIAL OFFER — OF — SEASONABLE PLANTS



NEPHROLEPIS WHITMANI—The most distinct and desirable of the crested forms of the Boston Fern, its great points of merit are that it never reverts or shows any plain fronds or parts of fronds, it naturally makes a shapely compact plant, it is more graceful than any of the other sorts and is a quick grower. We offer strong specimens, beautiful plants in 6 inch pots at \$1.00 each, smaller plants in 2½ inch pots \$3.50 per dozen, \$25.00 per 100.

NEPHROLEPIS SCOTTII—A grand lot of bushy, shapely compact plants in 6 inch pots, 50c.; 8-inch pots \$1.00, and 12 inch pots, \$2.00 each.

ADIANTUM FARLEYENSE—A grand lot of plants in 6-inch pots, \$1.00 each
 Smaller Sizes 2½ inch pots \$1.50 per dozen, \$12.00 per 100
 " " 3 " " 2.00 " " 15.00 " "
 " " 4 " " 5.00 " " 40.00 " "

PANDANUS VEITCHI—A nice lot of specimen plants. 6-inch pots, well furnished, 18 to 20 inches high, \$1.00 each; 7 inch pots, well furnished, 22 to 24 inches high, \$1.50 each

DRACAENA GOLDIEANA—A fine lot of this beautiful, all ways rare, variety, 5-inch pots, 10 inches high, \$1.25 each.

MARANTA ROSEA LINEATA—A fine, hardy, decorative variety, rare and useful, 4 inch pots 50c. each; \$5.00 per dozen.
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Ornamental Conifers

H

Cuttings are made in September on in sand in boxes or on benches in greenhouses, kept cool and shaded till they make calluses when a little bottom heat will help to develop the roots; when well rooted they are put in pots and are to be hardened; in both cases they can be planted outside as soon as weather permits; but it is safer to keep them in pots the first year. It is useless to say that the grafts have to be kept clean from all wild shoots and, if side-grafted, the stock cut back level with the graft.

Seedlings can be started in open ground or in boxes; rarer kinds are better in boxes, as they are easy to handle. The soil must be made very fine and light and seeded in early spring in rows. Sow not too thickly and cover with one-half inch of soil more or less, according to the size of the seed, and keep shaded. In winter the young seedlings should be covered with leaves to prevent lifting by frost. When sown in boxes the seeds can be sown in February and March in the greenhouses and kept in shaded frames through the summer; in winter they have to be covered to keep the heavy frost out; in both cases it is better not to transplant before the second year's growth.

In the botanical order of Coniferae the fir and pine tribes are most important and contain the noblest trees in the landscape of this country.

Firs are divided into three classes:

1. *Abies*, the true firs, have their seed cones erect, falling apart when ripe. The needles are flat with two more or less accentuated white lines on the under surface; they are generally split at the top, in a few only are they pointed.

2. *Picea*, the spruces, have their cones pendant and persistent. The needles are three or four-edged and pointed.

3. *Tsuga*, the hemlocks, have their little cones pendant and persistent, their needles small and flat. In olden times they used to be called pines, all without distinction; in some places now-a-days firs are called *Picea* and spruce *Abies*, but this is wrong. All the world over fir is *Abies*, spruce is *Picea* and hemlock is *Tsuga*.

ABIES. (FIR).

Excepting a few dwarf varieties the fir and all large-growing trees should be planted at least from 15 to 30 feet apart, according to species. They grow generally in any good soil, but a well-drained, moist situation is the best. They are all pyramidal in shape with spreading flat branches, the top ones grow more erect, and these when old enough produce the cones. From North America we have *A. balsamea*, which grows all over the northeast. It is a nice, narrow pyramidal tree when old, but not of very great decorative value when young. There are some blue and other forms multiplied that I know of. A dwarf form that comes from the moun-

tain of New England is *A. H. Milleri*, which is the tree so called.

A. Fraseri, from the Himalayas, is a tree of the same habit as *A. balsamea*. It is a tree of the same habit and growth, but the cones are set more closely underneath. The cones are both very large and very subject to attack of beaver in dry situations when of certain size. *A. Fraseri alba-variegata* has the point of the needle white when growing.

A. concolor from Oregon and California is one of the nicest of all the firs, with long glaucous tinted needles, and when planted against a dark background is very effective. It grows to a very big, narrow, compact pyramid. The type is grayish green in color, but there is a graduation among trees from that color to nearly white. *A. c. violacea* is, I think, the best colored one; it is said to have violet colored cones, while the others are green.

A. concolor Lowina—*A. lasiocarpa* of gardens and more generally known under that name—has the needles long and recurved, set apart, of a grayish green color. It is a very nice tree on account of its long needles, but not very hardy everywhere; the young foliage and shoots "burn" easily in winter.

A. nobilis, from Washington and Oregon, is a good hardy tree when once established, of irregular picturesque pyramidal shape. The blue form is the one generally seen in cultivation; it is of a different darker blue than *concolor*, needles sharper, recurved and thicker set. Once started they make good growth, but it is sometimes difficult to get a leader. Its best position is on the lawn with a dark background.

A. subalpina is the true *lasiocarpa*. This tree varies much in color, is more or less blue and has longer or shorter narrow needles. It grows wild in the Sierras from Arizona to Washington. It is a nice little tree when young; I have never seen it in large size. It starts early in the spring and the young shoots are often killed by the late frost. *A. Arizonica*, the "cork bark fir," is a form of it; I have not found this very hardy.

Among other American firs are *A. amabilis*, *A. bracteata*, *A. grandis*, *A. magnifica*, and their forms. They are all beautiful trees of great ornamental value. There may be in New England some very sheltered situations where they might be grown, but in general they will not stand our climate, as is true of all the conifers from the west side of the Rocky mountains and Pacific coast.

From Europe we have *A. pectinata*, white fir. It is the great lumber tree of Central Europe; looks much like *balsamea*, but the needles are longer and more glossy and stand flat on each side of the shoots; it is of much larger dimension. Like *balsamea* it is of not much ornamental value when young; does not grow compact enough; the branches are flat and dis-

tant, but when big it is a majestic tree. There are a few forms of it, *A. pect. columnaris*, which grows in narrow pillar shape, *A. pect. pendula*, a good weeping tree, *A. pect. nana* of compact growth, *A. pect. brevifolia*, with short needles; they are all very hardy.

From Spain comes *A. Pinsapo*, very interesting and very different from all the other firs, not quite hardy when young. It is hard to get a good specimen. The needles are short, thick and pointed, set thickly all around the shoots. It has the way of growth of an *arancaria*, but the young shoots are often killed by the frost, thus destroying the symmetry of the tree, and we never can get a leader to stand. It is the only European fir that has both blue and yellow forms.

A. Numidica or *baborensis* is from the Atlas mountains, where it grows with *Cedrus atlantica*. Like the preceding it is not hardy enough when young. It looks like a Nordmann fir with short needles.

A. cephalonica, from Greece, is hardy in a sheltered situation. Like *Pinsapo* it has pointed needles, but they are longer, more flat, and of dark green color. It makes a nice bushy tree. There are a few forms from it with longer, shorter or larger coarse needles; *Apaliniis*, *Peleponnesica*, *Reginae Amaliae* are some of them. They are all large, spreading pyramid in form, some more compact than others. Hybrids are very seldom found among conifers. There is one fir, *A. Vilmoriana*, which comes from *Pinsapo* and *cephalonica*. It is not any more hardy than either of the two.

A. Nordmanniana, from Caucasus, is well known for its dark green, glossy, hardy growth; a beautiful tree, but not always hardy everywhere.

A. cilicica from the Taurus mountain resembles Nordmann fir, of a lighter green color, the needles somewhat straighter, more narrow and just as hardy; where one stands the other will. The young shoots are sometimes injured by late frost in spring. It is a very nice regular growing tree.

From Siberia comes *A. Pichta* or *Sibirica*. Like all the trees from far north or high situations, they do not grow well near the seashore or on level lowland. They make their growth early in spring and are often hit by late frost. In higher altitude they do very well, while here they grow slowly. It makes a nice compact tree of small size, of a very dark green color; the needles are narrow and crowded.

A. sachalinensis, from Sachalin Island and northern Japan, has the same characteristics as *Pichta*, being a very vigorous grower and, near the seashore where they make their growth early, when hit by late frost the buds which are left grow to a great size, thus making the tree look unsymmetrical; it has the appearance of a big *Pichta*; the same kind of narrow needles, but long and recurved. These two trees would do well in the mountains.

From Japan we have a few good firs which are hardy. *A. firma* or *bifida* is the only one that has the same failing as *sachalinensis*. It must be one of the most distinct firs when perfect in growth. Its long, flat, rigid needles make it look quite different from any other. It is a very robust grower and in a suitable situation must be a fine tree.

A. Veitchii is of all the firs the one which has its needles the most distinctly white colored underneath; the branches are flat and regular. It is one of the best of the Japanese firs. When planted on a hill the white coloring on the under surface of the needles is exceedingly effective.

A. brachyphylla or *homolepis*, is a noble tree, perhaps more vigorous than *Veitchii*. The needles are more rigid, and not so white on the under surface; it

grows to a large compact pyramid, the branches a little erect.

A. umbilicata is something between the two last named. In the firs that are imported from Japan under different names more or less correct there is a gradation of forms between *firma*, *brachyphylla* and *Veitchii*. It is very hard to tell which is one or the other. Although they are all very nice trees the difference is not sufficiently accentuated to regard them as forms worthy of names.

A. Mariesii has short dark green needles not unlike the hemlock, but more crowded. It is also a good hardy tree but a slow grower.

From Himalaya we have *A. Webbiana* and *Pindrow*, both having long, flat glossy needles, the first-named white underneath. Both are beautiful trees but will stand only where *Cedrus Deodara* will stand. There are also a few recently introduced from Central Asia which will have to be tested before their hardiness can be established.

Am. D. H. Am.

(To be continued.)

The Dahlia Under Glass

The possibilities of the dahlia as a commercial cut flower for the Boston market, has been given quite careful attention by W. C. Ward of Wollaston, for a number of years. This season he has in his new house a block of *Storm King* and another of *Kriemhilde*. Plants are grown from cuttings taken from his own stock in the field in August. From the propagating bench they are placed in 3-4-2 in. pots and planted in the bench from the pots. *Storm King* is one of the older varieties of dahlias and evidently has some very desirable characteristics for forcing. Under glass it does not draw and is fully as dwarf and stocky as in the open. It is flowering finely at the present time, being cut every other day, producing from one to three large, full, well developed blooms on nearly every plant in that time. *Kriemhilde*, which ranks as one of the choicest of the newer cactus varieties, is later, just making buds now and will be in full flower after the rush of *chrysanthemums* is over. The plants of both varieties are thrifty and healthy and promise easy adaptation to forcing conditions. Fumigation is necessary and a temperature of 45 degrees to 50 degrees at night is considered the proper degree to be maintained, with plenty of air during the day.

A system of disbudding is practised which will give a sufficient length of stem without cutting too close to the roots. Mr. Ward's deductions, drawn from observation and reasoning are that the dahlia in the open had only begun to draw on its flowering power when it is cut off by frost, and that it reaches its best development under cool, damp, climatic conditions. That the plant therefore would take kindly to the artificial conditions available in an ordinary greenhouse seemed a reasonable conclusion and that there will be a demand for a large showy flower to follow the *chrysanthemum*, may be fairly assumed.

Geo. H. Higgins

Functions of the Bacteria and Origin of Species

Editor HORTICULTURE,

My dear Sir:—I have a few quotations to present to you, which are very interesting to me and seem worthy of consideration on the part of horticulturists. The first is in Prof. Hilgard's book entitled "Soils" and constitutes the third paragraph of page 115. The second is taken from the inaugural address of Prof. E. Ray Lankester, president of the British Association for the Advancement of Science and was delivered at the August meeting of that body in York. The whole address has been printed in various publications, I make my excerpt from Science for August 24th, 1906, page 228:

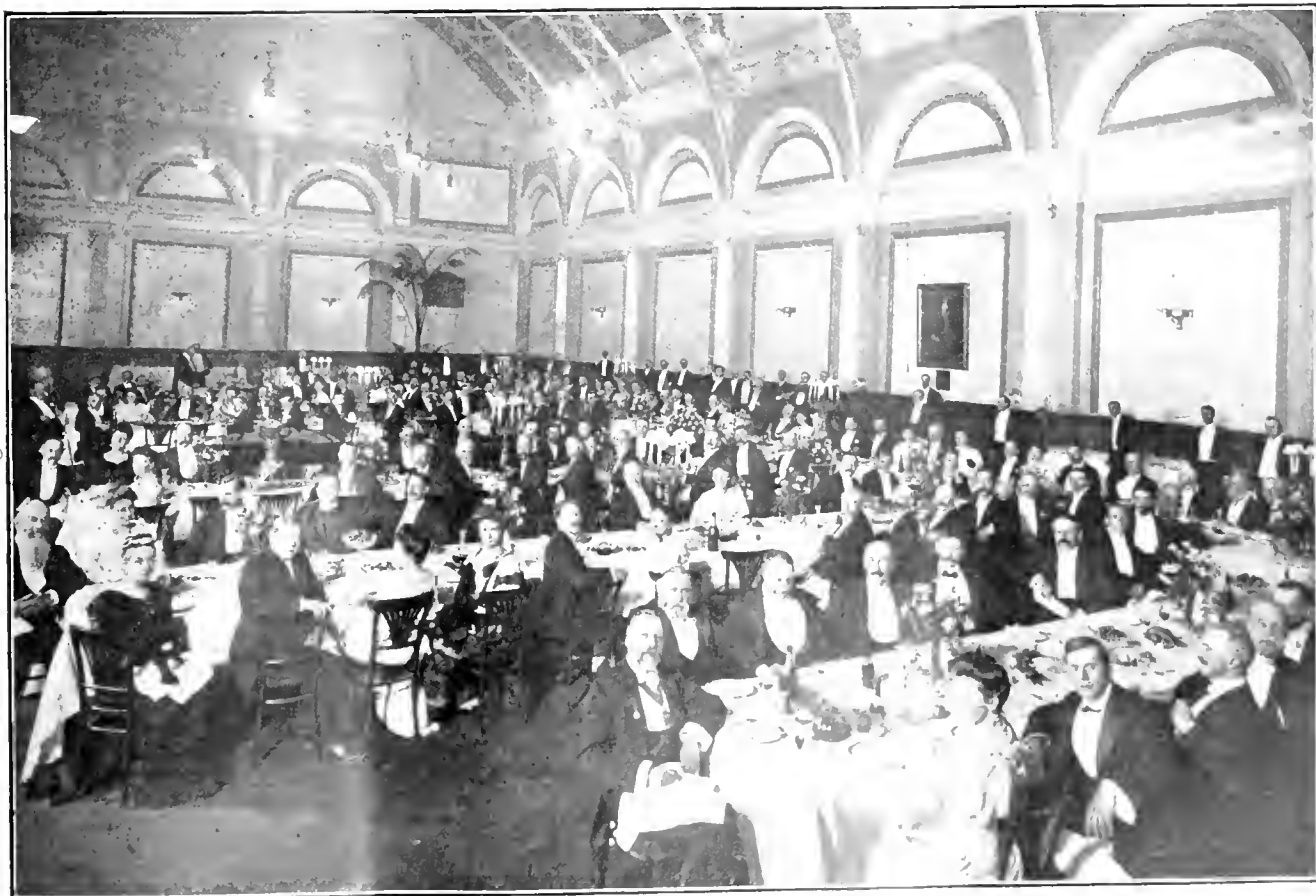
"Functions of the Bacteria. While there is still much uncertainty as to the exact functions performed by most of these bacteria in respect to soil-formation and plant growth, there are several kinds whose activity has been proved to be of the utmost importance in one or both directions, it having been shown that when the soil is sterilized either by heat or antiseptic agents, certain essential processes are completely suppressed until the soil is re-infected and the conditions of bacterial life restored."

"The observations of de Vries—showing that in cultivated varieties of plants a new form will sometimes assert itself suddenly and attain a certain period of dominance, though not having been gradually brought into existence by a slow process of selection—have been considered by

him and others as any naturalist's— a way in which new species arise in nature. This notion is a very old one, not very novel, but a closer observation will have to be made before it can be admitted as really having a wide bearing upon the origin of species. The same is true of those interesting observations which were first made by Mendel, and have been resuscitated and extended with great labor and ingenuity by recent workers, especially in this country by Bateson and his pupils. If it should prove to be true that varieties when crossed do not, in the course of eventual interbreeding, produce intermediate forms as hybrids, but that characters are either dominant or recessive, and that breeds result having pure unmixed characters—we should, in proportion as the Mendelian law is shown to apply to all tissues and organs and to a majority of organisms, have before us a very important and determining principle, in all that relates to heredity and variation. It remains, however, to be shown how far the Mendelian phenomenon is general. And it is, of course, admitted on all sides that, even were the Mendelian phenomenon general and raised to the rank of a law of heredity, it would not be subversive of Mr. Darwin's generalizations, but probably tend to the more ready application of them to the explanation of many difficult cases of the structure and distribution of organisms."

Very sincerely yours,

Ann Dornaway



BANQUET GIVEN BY THE ROYAL HORTICULTURAL SOCIETY OF LONDON TO THE INTERNATIONAL CONFERENCE ON HYBRIDIZATION AND CROSS-BREEDING, AUGUST 2, 1906

The President, Sir Trevor Lawrence in the foreground.

Plant Tissues

PART III.

In previous articles I have classified plant tissues, discussed the three regions of growth in one year old twigs and described the different tissues of which each season's twigs are composed. In the present article I shall trace the development of these tissues and correlate form with function and in a final article discuss secondary thickening or increase in diameter from year to year, explain bark development and cork formation and conclude with some recently published records of bud growth in fruit trees.

As stated before the terminal cap of formative tissue at the growing point produces all the various stem elements of the season's twig except those resulting from the later growth of the cambium tissue in the conducting bundles. The elements of the twig besides the bundles are fundamental tissue and epidermis. The fundamental tissue includes the pith, pithrays, cortex and strengthening tissue. The areas of strengthening tissue such as the bast fibres formed near the bundle or the other long thickwalled cells developed in the cortex or elsewhere in the stem are simply fundamental tissue later modified as internal protective tissue.

The pith, pithrays and cortex are all quite large cells well filled with protoplasm and provided with thin walls having in some cases many shallow pits. They become larger during their period of elongation just back of the growing point but later undergo very little differentiation. Their function is to conduct and store food, mainly starch. This, in the form of sugar solution, can easily pass through the thin places at the pits and therefore there is no need for such open perforations as are found in the sieve tubes of the phloem. The starch passes down from its place of manufacture in the leaves through the cortex and phloem and is carried inward radially through the pith rays which are elongated in this particular direction. The pith rays convey the starch not only to the pith cells but also to the living wood cells of the bundles. The function of these thin walled wood cells is not very well understood at present. In the winter twigs of many trees all these thin walled tissues show the blue iodine test for starch stored here as reserve food for early spring use.

The epidermis undergoes much more differentiation than the fundamental tissue. At first they are thin walled but later become modified to function as external protecting tissue and as water storing tissue. The water is held in by the thin lining membrane of protoplasm and their outerwalls become greatly thickened and cutinized. The chief service of this thickening is to prevent excessive transpiration of water and restrict its passage to the breathing pores or stomates. These openings occur in the epidermis of stem and leaf and are guarded by elaborate cells which are sensitive to the loss of water. The combined action of the guard cells opens or closes the stomates and thus regulates the evaporation of water from the plant.

The stomates also allow the interchange of gases

necessary for plant respiration for plants breathe as truly as animals do. The stomates are the breathing pores through which air is admitted to the working tissues within. During day time when starch formation is going on in the green parts of the plant the impure carbon dioxide breathed out within the working tissues is at once used up in the manufacture of starch and the additional carbon needed is extracted from the carbon dioxide of the air taken in through the stomates. When such work is going on rapidly there is actually a surplus of oxygen thrown off by the plant. In the day time plants really tend to purify the atmosphere in which they grow. At night when starch is not being formed metabolism, transportation, growth and other vital processes are still going on and the working tissues are taking in oxygen and discharging carbon dioxide. The exhaled carbon dioxide is now a surplus gas within the plant and is passed out into the surrounding air. At night plants tend to make the air impure just as animals do all the time.

The development of the fibrovascular bundles begins at the growing point from certain radiating parts of the formative cap called procambium strands, the cells of which are much smaller than those of the surrounding tissue. Some of the procambium cells early become differentiated into the first xylem elements on one side of the procambium strand and the first phloem elements on the other side. The remaining undifferentiated cells between continue to divide longitudinally and constitute the cambium. When one of the procambium cells passes over into cambium tissue it divides longitudinally and one part remains nascent, i. e., stays a cambium cell while the other part becomes a mother cell of xylem or phloem and may divide and subdivide several times producing a number of cells. These cells now become differentiated into permanent xylem or phloem elements of the bundle without further division. During the rest of the growing season the cambium continues dividing and forms the later bundle elements, xylem or wood on one side and phloem or bast (sometimes called inner bark) on the other side.

The first phloem elements formed by the procambium at the growing point are not different from those formed later by the cambium tissue. The function of the sieve tubes of the phloem is to conduct proteids, i. e., albuminoid or nitrogenous solutions. These solutions can not readily pass through even the thin membranes at the pits and therefore the sieve tubes of the phloem are provided with open perforations in their side and end walls.

In the xylem elements, however, there is great difference between those formed first by the procambium and later by the cambium. The first formed elements are the large, spiral or annular vessels with a few of the long, thin walled tracheids. The function of these first wood elements is to conduct the watery soil solutions upward through the stem. Their walls must be thin so as to allow of rapid elongation back of the growing point and yet strong enough to keep the water channels always open. At first the early formed spiral or annular vessels are uniformly thick walled but when elongation takes place the wall breaks along a weak spiral or annular line, all except the central layer called the middle lamella. This at first stretches out to accommodate the elongation but may eventually break also. There is thus produced a thin walled vessel with spiral or an annular thickenings which still serve to keep the chan-

nels open. The next year formed conducting vessels are larger and pitted in part of spiral.

The large water conducting vessels are formed only early in the season. A cross section of a one-year-old twig shows them all on the side next the pith farthest from the cambium tissue. All the intervening tracheids and wood cells have been formed later and have gradually become thicker walled and smaller in diameter as the close of the growing season approached. These later thicker walled cells undoubtedly function as strengthening tissue.

The production of water conducting tissue early in the season and strengthening tissue later in the season has been explained by some as a direct adaptation to function. At the beginning of the growing season, whatever that may be, the tender shoots are unfolding and the outer walls of the epidermis have not yet become thickened and cutinized. At this time there is an enormous evaporation of moisture from the unprotected plant surfaces. The equilibrium must be maintained by rapid and abundant conduction of water upward from the roots. The result is a large pored conductive tissue produced early in the season. Later as the epidermal walls become cutinized evaporation is reduced, the need for rapid water conduction is lessened and smaller pored strengthening tissue is developed.

(The next article will conclude the series.)

B. M. Curtis.

Strawberry Forcing

Strawberry forcing involves a large amount of work, and careful attention, to be successful, and the cultivator who is not prepared to put this into it had better not attempt to force strawberries at all, as the results would be very indifferent.

THE START.

A good beginning must be made with young plants; this is indispensable. About the beginning of July the strongest runners that are just rooted into the ground must be selected from the strawberry bed. And here let it be observed that young plants throw very much stronger runners than old worn-out plants. Pot these small plants in 3-inch pots in good loam, and stand them in a shady place for a week or so, on a hard bottom. When the roots begin to work through to the sides of the pots they should be stood out in the full sunlight.

POTTING INTO FRUITING POTS.

When the small pots are full of roots no time must be lost in transferring them to 6-inch pots. This is the best size for general purposes, although I have seen good results in 5-inch. The best compost is a good loam inclining to heavy, rather than light; any good rose soil should grow good strawberries. The addition of a little bone-meal will be beneficial. One large crock in the bottom of the pot is sufficient, covered with the rougher portions of the compost. Place the plant in position, so that the crown will be just above the surface, and proceed to pot very firmly with the aid of potting stick. Very firm potting is most essential if the material is in good working condition.

SUMMER POSITION FOR PLANTS AND TREATMENT.

When finally potted they should be stood upon a good bottom of cinder ashes in the full sunlight with a

space of 6 inches between the pots. They should be carefully watered, the strawberry plants should be watered with a good syringing of water every day toward evening on hot days to keep them cool and promote healthy growth. All strawberries for forcing should be in their fruiting pots by the middle of August. Attention to watering, syringing, and keeping free from weeds, and stirring the surface soil occasionally, constitutes the after treatment through the summer.

I am not in favor of giving any feeding during the period of summer growth, as very large plants do not give the best results; the object should be to get a good crown and a sturdy plant.

Before very hard frost sets in the plants should be stored in cold frames, with the pots packed well in leaves. The strawberry plant will stand a lot of freezing, but this would burst the pots; therefore the necessity of storing in frames.

COMMENCING TO FORCE.

About November 1st is soon enough to start the first batch, and if the plants have had some light frosts on them, so much the better. Ripe berries from these may be expected about the end of March, which is just about as early as the average man can get them. A temperature of 45 degrees is about right to commence; when the plants have grown a little it can be increased to 50 degrees night temperature. They must be kept around 50 to 55 degrees until the fruit has set, when it may be increased to 60 degrees. As the flowers expand they should be gone over every day with a camel-hair brush to ensure setting, and, of course, syringing must be discontinued at this stage. If a batch of plants is brought in about every three weeks a succession will be maintained.

POSITION IN GREENHOUSE.

The best position in the greenhouse is a good sunny bench, covered with fine coal ashes. The worst place probably is a shelf hung up to the rafters. The plants on shelves are very awkward to water, and they are not accessible to the syringe, and soon become covered with red spider, and later on mildew. As soon as the flower spikes are long enough they should be tied straight up to a small stick and by this method the plants can stand comparatively close together. When enough are set they must be thinned down to six or eight berries to a plant, which is ample, removing everything else in the shape of flowers or unopened flowers.

And now we come to one of the most important points in the forcing of the strawberry, from my point of view. From the time the berries are set until the crop is gathered the plants must be well syringed every fine day in the early forenoon. Attach a spray nozzle to the hose and go over them carefully, even when the fruit is coloring. No harm will be done, and no berries white with mildew (so often the case) will be seen, if this syringing be practiced persistently; but instead, the berries come out a bright scarlet color.

Judicious waterings of weak manure water and a little Clay's fertilizer sprinkled on the surface of the soil during the swelling of the fruit will be beneficial. It is also advisable to lightly shade the plants during the period of ripening.

The old variety Sharpless will take a lot of beating today as a forcer.

John Keereman

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE
FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

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WM. J. STEWART, Editor and Manager

Usefulness of the early-flowering chrysanthemums

Our foreign notes for the past few issues have given us some idea of the great and constantly growing popularity of the early-flowering chrysanthemums with the public and the florists of London. We believe that an effort to introduce these classes more prominently into the flower markets in this country would meet with much success. Our wholesale growers now give so much better attention to the value of good stems and foliage and careful packing that these early sorts should easily find a wide market in the average season where an awkward gap exists between the latest asters and the general chrysanthemum crop.

Need of improvement in packing methods

We note with interest the provision made in one of the foreign chrysanthemum shows for a competitive exhibition of methods and skill in the packing of cut blooms for market. The idea has a distinctly practical flavor and might with benefit to all concerned be given an opportunity at some of our own flower exhibitions. No department of floral work is so carelessly and unskillfully carried on, yet none is of greater importance, for it matters not how well a flower may be grown, unskillful handling will reduce it to the lowest rank in quick time and all the care given to its production has been worse than wasted.

The spirit of healthy rivalry

Concern has been expressed over the decadence of the old true competitive spirit which some think they have detected among growers contributing to the floral exhibitions. It is assumed that exhibitors are today more interested in the winning of cash prizes than in the mere honor of excelling. This may be locally true in some instances, where commercial growers contribute cut blooms which have a substantial fixed money value in the daily market; but we see no evidence that it goes any further. In fact, cases have not infrequently come to our notice of commercial exhibitors whose whole ambition was the idea of winning out regardless of the intrinsic value of the prize and of the expense incurred in the effort. We are always pleased to see demonstrations of this spirit of healthy rivalry, for its absence would mean a deplorable halt in real horticultural progress, no matter how successful our shows might be from the standpoint of the box office.

Higher salaries in prospect where merited

All signs point to the probability of higher wages for expert gardeners and growers in the immediate future. Whether applied to those employed in a private or a commercial capacity this will prove equally true for, under conditions as they exist now, equal ability is demanded. The prospect is one that will, we believe, be regarded with satisfaction by all those who have the welfare of the profession at heart. No avocation can ever rise to higher level and greater dignity that does not offer some incentive in the way of larger emolument and exalted position to those who are ambitious to excel and have the intelligence and industry to strive for pre-eminence in their calling. High attainments in the gardening line have, heretofore, found but scanty recognition in anything more substantial than "the bubble reputation." Conditions now conduce to something more tangible and we are glad it is so.

Get in touch with the public

Those who favor the success of public floral exhibitions—and this should include everyone financially or otherwise interested in the prosperity of the flower and plant trade—should keep their eye on the Chicago show, which opens on November 6, particularly on that section devoted to the retail florists' displays. Judging from the exhibition there last year and the promise of this year the tough problem of bringing the retailers and decorative artists into touch with these important affairs seems to have been solved in a most practical manner—something that cannot but bring about a tremendous advancement in the art of floral decoration and in the public knowledge and appreciation of artistic floral handiwork. It is beyond question that the successful introduction of the methods so effectively put in operation at Chicago into any community large enough to support a few floral establishments will bring solid returns to the growers and dealers of that district, of greater permanent value than can be secured through any other means. To get the public aroused is the first duty of the florist or nurseryman.

The menace to the flower shipping trade

The shipping trade in cut flowers as carried on by the commission dealers in the larger business centres has been one of the most potent agencies in the extending of greenhouse area for wholesale specialty growing. The loss of the shipping trade means that the product which hitherto had found a distant buyer must thereafter find its market at home and the consequent embarrassment of surpluses, derangement of values and stimulation of the speculative or fakir element. In certain of the older markets, the shipping trade, once a power in the maintenance of high prices, has dwindled down to almost nothing and, indeed, in some instances remote communities which at one time were purchasers are now heavy sellers in the very markets upon which they once depended for their own supply. That other large markets now prosperous shipping centres must eventually face similar conditions seems inevitable. Reports from sections south and west that have been large consumers of material from north and east indicate an awakening to local possibilities that promises better for the greenhouse builder than for the wholesale shipper, in the near future. This being the case it is up to the large grower and the flower shipper to consider well what can be done to conserve their own interests and hold as long as possible this business which has been directly and indirectly so remunerative to them and advantageous to their local market.

WHOLESOME CHESTNUTS.

Many growers whose greenhouses are entirely devoted to specialties have or think they have no time to bother with anything else. No doubt many of them are right in their conclusions, especially those having establishments of enormous size, but there are others who might some time find it profitable to have some side line or subsidiary branch connected with the business. For instance if there is available vacant land adjacent there are many things that will in the near future be in demand that might be profitably grown thereon, and the help necessary at one season could be utilized at another in a different branch without any confusion.

The various trees and shrubs, both evergreen and deciduous, are, if all signs fail not, to be in an increasing demand in the years to come. Herbaceous plants or hardy perennials are planted more and more every season. Hedge plants and material for planting for cover will be more called for in the near future, all of which at prevailing prices should prove remunerative to the grower.

Herbaceous plants are becoming better appreciated by florists as valuable for their flowers with the result that this season especially there has been an unusually brisk demand for seed of border perennials. Many good things do fully as well when grown from seed the previous fall as established plants that were purchased at a much greater cost. In beginning to grow perennials for their flowers for floral work some thought should first be given to the varieties most likely to prove useful, as the list is very large.

Lifting and storing time is now upon us. Keep everything of value; discard things of no merit, because the room they take up in storage and the labor expended on them at other times can be more profitably given to other things. If there is a surplus on hand of anything good it might be easily turned into cash if the owner is only enterprising enough to let it be known through the press. There is but little chance that the man in need of what you have to dispose of will come around in an express wagon, with a bulging wallet, to buy it up and cart it away; in the advanced civilization of today better business methods are practised.

Thanksgiving Day is not far away. Recently there has been an inclination on the part of the prosperous public to invest a little of what they give thanks for in offerings of plants or flowers to friends in health and in sickness. This custom needs but strenuous encouragement to make it as firmly established as that of Christmas and Easter. There are many things that could be worked up into specialties suitable for Thanksgiving offerings, just as there are special things for Christmas and Easter.

It looks that slowly but surely chrysanthemums are coming back to occupy the position they all but lost for a time. It will pay any one who has had but little interest in them lately to visit the exhibitions this year and note the varieties now considered the best for utility.

Pansies are at all times favorite lit-

tle flowers and for winter use are grown now more than they used to be, and little wonder when we see the charming baskets made up of them by florists possessing some taste and originality. For winter flowering, if a house is not available for them, there is little reliance on having many flowers, but if a bench even in a cool house can at all be spared it will be found at the end of the season that the room was not wasted.

It is now fully time that bench grown nephrolepis intended to be marketed when prices are usually the highest be potted up in order that the plants will at least in a measure be established before they are disposed of, otherwise they will have that unfinished appearance in form and substance decidedly against them when scrutinized by intending buyers.

Cut flowers are high in some localities in the early part of every season, but the temptation engendered by a temporary brisk demand at this season should not get the upper hand to such an extent as to induce anyone to ruin stock.

Growers of primulas, cinerarias and calceolarias need hardly be told that it is time to have the plants in the greenhouses. All the plants mentioned are very much alike in at least one particular which growers should never lose sight of, and that is their insistence on receiving unstinted nourishment in their growing stage. Never let them suffer for pot room until the degree of development desired by the grower has been attained; if their requirements in that line are not scrupulously attended to, neither the foliage nor the flowers will be satisfactory. When the plants were in frames, most likely they were shaded, more or less; then, upon their immediate occupancy of room in a greenhouse they should not be fully exposed to the light of the sun for a few days, at least, but after that time, when hardened to the light, they will stand it and thrive. All these plants are also extremely sensitive to any neglect in watering; calceolarias especially so, even going as far as collapsing entirely if watering is neglected or carelessly done. Good plants of either of the three referred to are good stock in the hands of the grower, but poor plants—the result, pure and simple, of neglect—are just so much rubbish.

FLOWER MARKET DINNER.

On Saturday evening, October 27, occurred the annual dinner of the Boston Co-operative Flower Growers' Association at Young's Hotel. Among the invited guests were the local representatives of the trade papers, who together with F. P. Mathison and others made addresses appropriate to the occasion. While the attendance was not as large as on some former occasions the affair was an exceedingly pleasant one for the participants. At the business meeting all the old officers were re-elected excepting the filling of one vacancy on the board of directors. The reports of treasurer and secretary were favorable and a dividend of \$5.00 per share was declared.

Have You Read the Advertisements this Week?

PERSONAL.

Robert E. Berry is now representing Frank Darrow, of New York, on the road.

Walter Mott has taken a position travelling representative for Bobbink & Atkins, of Rutherford, N. J.

Mr. and Mrs. Anthony W. Egan, Indianapolis, have returned from a three months' trip to Honolulu and the Hawaiian Islands.

Dr. N. L. Britton has returned from Jamaica bringing with him over 5,000 specimens of tropical flora for the New York Botanical Gardens.

Recent callers at HORTICULTURE'S office, Boston, were: R. E. Berry, representing H. Frank Darrow, New York; R. W. Peterson, of Cincinnati, O.

J. K. Allen, the New York wholesale florist, is a member of the building committee of the Carnegie Library, at Kearney, N. J. The new building was dedicated on October 27.

W. H. Waite has resigned his position as superintendent on Senator Dryden's estate, and has resumed his old place as superintendent for Mr. Samuel Untermyer at Greystone, Yonkers, N. Y.

Mr. and Mrs. Julius Roehrs are on an automobile tour from New York to Newport, R. I., as guests of Mr. Fred Smythe, the immediate occasion of the holiday being the assumption by Mr. Roehrs of the dignity of grandfather.

Robert Angus has resigned his position as gardener on the Col. Jay estate at Katonah, N. Y., and succeeds William Scott as superintendent of the Joseph Eastman estate at Tarrytown. A. J. Marshall succeeds Mr. Angus at the Jay place.

OUR FRONTISPIECE.

Our frontispiece this week shows a Lawson seedling, raised at J. W. Howard's greenhouses, Somerville, Mass., four years ago and which is to be disseminated this season by Mr. Howard as *Debutante*. The variety is a splendid grower and profuse bloomer. In color it equals *Piancee* or *Winsor* in the purity of its pink tints; this, with its other good points which are shown in the photograph, has made the flower a very popular seller. The blooms illustrated are from the ordinary stock on sale at Mr. Howard's store on October 17.

ASPARAGUS CRAWSHAWII.

This beautiful new decorative asparagus has much to recommend it, especially from a growers' point of view. The foliage is of very dark rich green and is much more fluffy and velvety in character than *plumosus*. It grows rapidly and forms a crown, not rambling over the bed as *plumosus* does. It is so full and close in habit that strands that have been growing together may be unwound—each strand making a good string. Every asparagus grower should give it a place.

NEWS OF THE CLUBS AND SOCIETIES

LENOX HORTICULTURAL SOCIETY.

The annual chrysanthemum exhibition of the Lenox Horticultural Society took place in the Town Hall, Lenox, Wednesday and Thursday, October 24 and 25. This was hardly as good an exhibition as former years, owing to the lack of cut chrysanthemums, which are unusually late this year. The F. R. Pierson Co.'s silver cup offered for chrysanthemums, six varieties, three blooms of each, was won by E. Jenkins, with Morton F. Plant, Beatrice May, Mrs. George Heaume, Mrs. Henry Partridge, W. W. Wells and Glenview. A. T. Boddington's prize, for twenty-four blooms distinct varieties, was also won by E. Jenkins. Chas. H. Totty's prizes, for six blooms on long stems of Beatrice May were won by E. Jenkins first, Thos. Proctor second, and S. Carlquist third. Howard & Morrow's prizes for vase of thirty-six blooms were won by R. Spiers first, A. H. Wingett second, and E. Jenkins third. The other chrysanthemum prizes were won by E. Jenkins, R. Spiers, A. H. Wingett, S. Carlquist, A. J. Loveless, Thos. Proctor, J. J. Donahue, D. Dunn and F. Heeremans. Bay State Nursery's prizes, for three specimen plants and one specimen plant, were won by E. Jenkins and R. Spiers. F. Heeremans was first in the group of miscellaneous plants arranged for effect, with a superb group, the background of which was made up with three good specimen kentias, two plants of *Licuala grandis*, some excellent colored crotons, *Adiantum Farleyense*, *Begonia rex* and *Cattleya labiata*—the ground of the group was wavy and consisted of *Adiantum Farleyense*, *Lilium longiflorum*, *Cattleya labiata* and various stove plants. On each corner was a plant of *Chamædora Aremburgiana* from which were hung *Phalaenopsis amabilis* and in the middle was a fine piece of croton Prince of Wales, surrounded by *Cattleya labiata*, *Phalaenopsis amabilis* and lily of the valley. E. Jenkins was second in this class, with a magnificent group also. F. Heeremans put up a good group of orchids on a round table in the middle of the hall. Roses were well shown. Thos. Proctor's Richmond were excellent. The principal winners in these classes were Thos. Proctor, E. Jenkins, F. Heeremans, Thos. Page, J. J. Donahue, R. Spiers, A. H. Wingett, Thos. Dixon and D. Dunn. In the carnation class competition was very close; the winners were the ones above, with E. Dolby, H. P. Wookey and L. W. Acheson added; in E. Dolby's vase of fifty blooms was an excellent white seedling of his own raising, which promises fair to become a winner. The special prize for collection of eighteen varieties of vegetables was won by E. Jenkins. In the class for twelve varieties of vegetables is where the judges met another proposition. Thos. Page was first, S. Carlquist second and D. Dunn third.

First-class certificates were awarded to Lager & Hurrell who staged a nice group of orchids; F. I. Drake of Pittsfield for a bunch of Gov. Herrick violets; James Crawshaw for *Asparagus plumosus* Crawshawii. The judges

were Messrs. A. Herrington, Chas. H. Totty, W. Duckham of Madison, N. J., and G. H. Hale of Oceanic, N. J.

GEORGE FOULSHAM, Secretary.

NEWPORT HORTICULTURAL SOCIETY.

A meeting of the Newport Horticultural Society was held Tuesday evening, October 23, president MacLellan in the chair. After the transaction of routine business the president appointed Messrs. James Robertson, Joseph Gibson, and Colin Robertson a committee to judge exhibits at the meeting. The exhibits consisted of nerines and dahlias. The nerines were shown by Andrew J. Pow, gardener for Mrs. Cornelius Vanderbilt, and excelled any collection ever seen here, while the quality of the individual flowers was uniformly excellent. Among them were several standard varieties but the greater number were seedlings of Mr. Pow's raising. As Mr. Pow had on a previous occasion been awarded the society's silver medal for nerines an award of money was made at this time. Mr. W. J. Watson, gardener for Miss Alice Keteltas, exhibited a seedling cactus dahlia of undoubted merit, especially fine in form and substance. A short, crisp discussion on the question of changing the term of stove plants showed opinion pretty evenly balanced, but the end is not yet.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of the committees:

Philadelphia, Oct. 27.—Chrysanthemum Mrs. G. A. Lotz; creamy white. Jap. incurved; exhibited by Gustav A. Lotz, Glen Burnie, Md. Scored 90 points commercial scale and 89 points exhibition scale.

Philadelphia, Oct. 27.—Mrs. Westray Ladd; yellow Jap. incurved; exhibited by Edward A. Stroud, Overbrook, Pa. Scored 87 points commercial scale.

New York, Oct. 27.—White Sport of Wm. Duckham (white blush tint); exhibited by Chas. H. Totty, Madison, N. J. Scored 90 points commercial scale and 90 points exhibition scale.

New York, Oct. 27.—Mamoiese L. H. Cochet; pink Jap. incurved; exhibited by the E. G. Hill Co., Richmond, Ind. Scored 85 points exhibition scale.

DAVID FRASER, Secretary.

ST. LOUIS EXHIBITION.

At the Missouri Botanical Garden the annual chrysanthemum show will open Nov. 12 and continue throughout the week. These free exhibitions generally draw immense crowds. Superintendent H. C. Irish says that the show this year will be greater than ever, as all the specimen plants are in much finer shape this year than heretofore; all the new varieties will be shown as well as the old ones.

These exhibitions are generally held in a big tent just outside of one of the big orchid houses. Messrs. Irish, Pring, Fulgraf and Thompson will have charge and will welcome any of the local and outside florists who attend.

EXHIBITION AT TARRYTOWN, N. Y.

The eighth annual exhibition of the Tarrytown Horticultural Society was held on Tuesday, Wednesday and Thursday of this week at Music Hall, Tarrytown. This annually recurring event is looked upon by experts as one of the finest exhibitions of the year, as to the quality of the material shown, and it draws a large attendance of visitors from other gardening centers. This year's exhibition was no exception to the rule. The plants and flowers, their arrangement, and the general effect were all that could be desired and well worthy of a visit.

There was a big array of special prizes which lack of space compels us to note as briefly as possible, firsts being taken by Scott Bros., Elmsford Nurseries, Wm. Rockefeller, gardener George Middleton; Girard Fester, gardener E. Jenkins; E. Berolzheimer, gardener D. McFarlane; Mrs. O. B. Jennings, gardener Oscar Carlson; Prof. Osborne, gardener James Donald; Mrs. Geo. Lewis, gardener James Ballantyne; Winthrop Sargent, gardener F. C. Whitney; Fred Potter, gardener Wm. Roberts; Mrs. J. B. Trevor, gardener Howard Nichols.

In Section I, chrysanthemums in pots, there was a very small representation, but in Section II, which comprised flowering and foliage plants, ferns, etc., the entries were numerous and comprised some excellent material in decorative plants. The winners of first prizes in these classes were: Mrs. Trevor, D. H. Weatherbee, gardener F. Milne; Mrs. Lewis; H. M. Flagler, gardener Wm. Cowan; Wm. Weidley; Fred Potter, and Henry Siegel, gardener T. Atkinson. For chrysanthemums grown to single bloom, first prize went to D. C. Oppenheim, gardener J. Haworth.

Section III was devoted to cut blooms which were shown in large numbers and of splendid finish, the winners being the exhibitors heretofore named, with the addition of E. C. Benedict, gardener R. Allan, and A. Heckscher, gardener A. Aliens. Section IV, devoted to roses, and Section V carnations from private growers, were filled by practically the same exhibitors. Section VI, carnations from commercial growers, brought out a splendid vase of Winsor from F. R. Pierson Co. Section VII violets, VIII fruits, IX vegetables, were all well filled with excellent exhibits, mainly from the private gardeners of the neighborhood.

The dinner table decorations and miniature flower gardens, for which special prizes were offered, were to be judged on the second day by a committee of ladies.

NEW BEDFORD HORTICULTURAL SOCIETY.

Many complimentary remarks have been showered on this society, by visitors to the exhibition held last month. This society was organized February 2, 1903, and each year has held an annual exhibition in September and the principal flower shown being the dahlia. Every year our ex-

hibition has been a success until now we are on a sound financial footing, to say nothing of 2000 bottles and tables which are owned by this organization. It has been said that the arrangements for exhibitors is the best of any, where large collections are shown, as space is set apart, and all bottles filled ready for the flowers. There is no doubt but what a larger variety of this beautiful flower is grown here than in any city in New England. Those who had occasion to visit the show were impressed with the quality of the flowers shown. Not only are the older varieties grown, but some fine seedlings have also been brought out. Joseph C. Forbes, clerk of this society, won the silver medal in 1905 at Newport with a ruby cactus dahlia named Newport. This year his Ruth Forbes, a magenta decorative was awarded the silver medal at New Bedford. Frost has now killed nearly all the dahlias, and members are discussing which varieties will be grown in 1907.

NATIONAL COUNCIL OF HORTICULTURE.

Arrangements have been made for a meeting of the National Council of Horticulture, at Chicago, Friday, November 9, at 10 o'clock A. M. Delegates are requested to meet at the flower store of Mr. P. J. Hauswirth, 227 Michigan avenue, and from there will go to a room in the Auditorium Annex, where the sessions will be held.

Details for the press bureau work for the coming year will be considered and acted upon, together with the matter of holding a National Congress of Horticulture and Horticultural Exhibition at the Jamestown Exposition, in 1907. It is expected that a report will be made by Mr. Robert Craig, who is making a personal visit to the Jamestown Exposition Co. for the purpose of investigating the practicability of holding a congress and exhibition. Other matters which should be brought before the Congress will be considered at this time.

Anyone having thoughts or suggestions for the consideration of the Council are asked to correspond with the secretary, or if possible to be present at the meeting of the Council and present their views.

H. C. IRISH, Secretary.

ST. LOUIS FLORISTS' CLUB.

The St. Louis Florists' Club will on Thursday afternoon, November 8, hold a chrysanthemum exhibition in conjunction with their regular meeting. The prizes offered for this exhibition amount to \$50 divided as follows: For 12 blooms white, \$7.50, \$5.00 and \$2.50; 12 blooms yellow, \$7.50, \$5.00 and \$2.50; 12 blooms pink, \$7.50, \$5.00 and \$2.50. For the best specimen plant, any color, \$5.00. President Irish says that this meeting and exhibition is open to all florists who wish to attend. The club has some very important matter to bring up which will interest every florist in St. Louis. A number of discussions will be heard, among them being the matter of holding a big flower show next fall which is of vital importance to all the members and florists who are not members. With all these attrac-

tions one of the largest gatherings of florists ever held in this city is expected. A full report of this meeting will be published in HORTICULTURE in issue of November 17th.

AMERICAN CARNATION SOCIETY. Carnation Registered.

"Mrs. Robert Hartshorne." By Malachi Tiency, gardener to Robert Hartshorne, Highlands, N. J. A cross between Gen. Maceo and Mrs. T. W. Lawson, color bright scarlet, size three to three and one-half inches, with a good strong calyx that does not burst and on strong stiff stems two to three feet long. An exceptional keeper, flowers having kept fresh from twelve to fifteen days; has a strong clove odor. A good clean grower producing an abundance of bloom.

ALBERT M. HERR.

Lancaster, Pa.

CLUB AND SOCIETY NOTES.

The Omaha Florists' Club, Omaha, Neb., hold their flower show on November 12-14.

The Minnesota Horticultural Society will hold its annual meeting in Minneapolis, December 4-7.

The Dutchess Co. Horticultural Society holds its annual exhibition in Poughkeepsie, N. Y., November 7 and 8.

The New Hampshire Horticultural Society held its annual exhibition in Meredith during the week of October 15.

At the meeting of the New Orleans Horticultural Society, La., on October 18, J. A. Newsham exhibited roses and chrysanthemums; B. M. Wichers, Boston, ferns. Plans were made for a social evening, at which practical means of furthering home industry among the florists will be considered.

At the annual meeting of the Society of Iowa Florists which closed on October 17, officers were elected as follows: President, P. Ewald of Davenport; vice-president, J. Kramer of Cedar Rapids; secretary, Wesley Greene of Des Moines; treasurer, Wm. Harkett of Dubuque. Des Moines was chosen for the next meeting place.

A CLEMATIS COMPARISON.

Editor HORTICULTURE:

Dear Sir—It might be inferred from Prof. Waugh's notes on page 391 of HORTICULTURE, that his clematis is a taller or more "abnormal" grower than mine. My clematis, having been cut to the ground for propagating purposes, made its entire growth from the ground up in a single season. It started off in the spring with several years' growth of wood and a stable to warm it into activity and with some assistance from the contents of the stable there is no knowing to what height it would grow. However this might be, the much greater spread of my vine, as can be very readily seen by comparing the illustrations on pages 485 and 339, marks its wonderful growth as something still more "abnormal."

Yours truly,

E. F. DWYER.

MELONS UNDER GLASS.

By Harry Tolman, before the Horticultural Gardeners' and Florists' Association, London, June 17, 1906.

The melon I consider one of the finest fruits to grow for summer consumption, especially the English varieties when well grown. They are of a better flavor and appearance, and more firm in the flesh than the Americans. I must admit some of the latter are of good quality, but as a rule the flesh is very mushy and soft compared with the former.

The melon is a plant that requires every care as regards ventilating, tying, syringing, watering, etc.

The best method for growing the above is in houses erected for the purpose, especially for early and late fruits, and even mid-season fruits do better in such than in frames, although there are good fruits cultivated in frames.

The time for sowing the seeds depends upon when the fruits are required for use. They take from 90 to 100 days, and very early plants a little longer to have the fruits ready for the table after sowing the seed.

The seeds should be sown singly in clean 3 inch pots in good fibrous loam at the depth of half an inch; give a watering and place in a house with a temperature of not less than 68 degrees at night; plunge the pots where they can get a little bottom heat, for then when the seedling appears above the soil they will have good, sound, clean seed leaves. As soon as the roots show at the sides of the pots, give them a shift into 6 inch, using a compost as recommended for sowing the seeds.

Some growers prefer planting them into their fruiting position from 3 inch pots, but I claim that giving them a shift as stated will strengthen the plants considerably.

The next thing to consider is the planting. The house intended for the purpose should be thoroughly cleansed, and it's a good plan to give the woodwork a good coat of paint, and lime-wash the benches. After the house is thoroughly dry the loam should be taken in, using that which contains plenty of fibre, and has been stacked during the winter months. Do not cut the turfs in too small pieces and place on the bench with a little charcoal and old mortar rubbish incorporated to a depth of about 10 inches when made firm. Some growers believe in making their beds as hard as possible, but in my opinion, in so doing, the plants are liable to suffer for the want of water, as it cannot pass through the soil freely enough. When the roots of the plants are again showing around the sides of the pots, it's time they were planted in their fruiting position.

Place them at a distance of 30 inches, keeping the ball of the plant well to the surface, rather than have them below the soil; it's better that they should be a little above, for if planted too deeply they are liable to cause trouble as the plants get older.

When planted give each a stake for support until they reach the trellis, but do not place the stake through the ball of the plant, as it may injure some of the young roots.

Give a thorough watering to settle the soil around them. The house will

require a temperature of from 68 to 70 degrees at night, except on very cold nights, when a few degrees less will be more beneficial to the plants.

When the plants begin to run they will require careful attention every day to do the necessary tying, pinching, etc. Some growers will rub out the laterals entirely that appear between the bench and the trellis, but I think it's not a good policy to adopt as it tends to weaken the plants, as well as being liable to cause canker; but instead of so doing, pinch to the first leaf and rub out any growths that may appear after.

Always bear in mind when tying the growths to keep them under the trellis, for by so doing it will be more convenient when putting on the supports for the fruits.

The plants will require stopping when they have made growth to half the height they are intended to cover. I have seen a good many grown and not stopped until they have reached the full height of the house, but by this practice I claim the fruits do not swell as freely as they would as recommended. Stop the laterals two leaves beyond the fruits. Sometimes the laterals do not show fruit, then stop at the first leaf and wait until they break again.

As the plants come into bloom, attend to the fertilizing of them daily until there are plenty set. When they have set their fruits, and if large, well finished melons are required, they should be thinned to not more than four fruits to a plant. Do not on any account neglect the watering at this stage, and a little artificial manure applied to the bed during the process will be beneficial. It should be used carefully at all times. A good plan to adopt is to use a little and often.

When the fruits get to the size of hen's eggs they will require supports, and the most convenient things to have are small nets made especially for the purpose.

As time goes on the roots will appear above the surface, then apply a top dressing, using compost as recommended for planting, but cut up rather small; this should be done as often as the roots appear to the surface.

The fruits at their seeding stage will require abundance of water and feeding to make them of good size and flavor. From the time of planting until the fruits are ripe they will require syringing once daily to keep the red spider, etc., in check, and this should be done at the time the house is closed, that is, if the house is closed fairly early; otherwise it must be done in time for the plants to get fairly dry before night.

I do not believe in syringing often, for it tends to make the growth soft and sappy, for then canker easily sets in, to which the plants are very much subject.

When doing the necessary work of tying, etc., always be on the lookout for canker, and if detected apply a little Portland cement to dry it up.

Melons are great lovers of air and must have it in abundance when the weather permits, but on no account let cold draughts into the house, for if the plants receive a check they never thrive as well after. It is good practice to admit a little air in mild

nights, when the fruits begin to ripen, as it will insure better flavor.

At the ripening stage of the fruits a good many growers withhold the water from the plants as much as possible, as they say it gives a better flavor; but, by experience, I claim they need as much water and feeding at that stage as they do at any time.

Judgment and experience will tell when the fruits are ready for the table, and when ripe it's a good plan to remove them from the plants and store in a cool place until required.

As regards the varieties to grow, there are a good many, and doubtless every one has his favorites, but for my own part, at the present time, I should grow (for green flesh) Ring-leader, (white) Hero of Lockinge, (scarlet) Triumph and Superlative. These I know to be some of the best.

EXPRESS PLUNDERING.

Complaints from the American Florists Society will probably cause an investigation into express company rates for the transportation of flowers. The request for relief has been filed with the United States Interstate Commerce Commission and includes a charge that in many localities the charges for this class of transportation have recently been hiked. There are other classes of goods which are overcharged for and there is some reason to accept the belief of many business men that the express rates are too high on everything which is shipped except merchandise sent free for stockholders and other influential people. The United States Government pays more for the use of cars for the mails than the express companies do, and yet in any instance the express rates are higher than the postage rates for the same class of goods. It is quite possible that the raise in rates for flowers may result in action which will give the people cheaper service. *Franklin Daily News.*

That the express company managers, as nearly highwaymen, in their robbery of the public by exorbitant rates, as those clothed in purple and fine linen can be, is known by everyone who is compelled to use that form of transportation. Fortunately for the people, the Democrats included these companies in the provisions of the new railroad rate bill, which brings them under the supervision of the Interstate Commerce Commission. The Society of American Florists have just filed a complaint against the United Express Company charging that the rates were arbitrarily raised on May 1st from 25 to 50 per cent. The petitioners declare "It is altogether unreasonable and unjustified by the circumstances of the case and the action is very nearly ruinous." The United States and the other express companies are controlled by the most unprincipled men, such as the railroad magnate Harriman and the deceitful Senator Platt, and the stock is mainly owned by an inside ring of railroad officials. These express companies have been a law unto themselves, but will now have to make under the new law a statement of their earnings and expenditures as the railroads do, and we shall soon know just how much of their plundering can be lopped off with justice to them and to their customers.

Those who feel they are subjected to unreasonable rates, should file their complaints with the evidence of the transaction with the Interstate Commerce Commission, Washington, Charleston (W. Va.) Gazette.

Prof. L. O. Howard of Washington reports that it will require millions of dollars to check the spread of the brown-tail moth. Thousands of fruit trees in the vicinity of Boston have been killed, while the defoliation of oak, maple and elm trees in the wooded region for a period of three or four years has brought about the death of many trees. The only way to get rid of this pest is to secure active co-operation of property owners and sound State laws.

Obituary

Mrs. Moore, beloved wife of George Moore of Quebec, Canada, died on October 31 at Hopedale, Mass., aged 85 years.

Hans Reck, of Bridgeport, Conn., 25 years old, committed suicide on the night of October 27 by drinking carbolic acid on the veranda at the home of a young lady to whom he had been paying attention but who had rejected him.

News of the death of John Nelson has been received. Mr. Nelson was an old florist of St. Paul and for the past six years has been superintendent of the St. Cloud Reformatory greenhouses. He had worked and traveled all through Europe, and was one of the best botanists in the state.

A telegram brings to us the sad news of the death of Lewis Ullrich at Tiffin, O. Mr. Ullrich has been ailing for some time and was prevented by sickness from attending the S. A. F. convention at Dayton last August. He had many friends in the national society, who placed him in nomination two successive years for the presidency in 1904 and 1905. Further details next week.

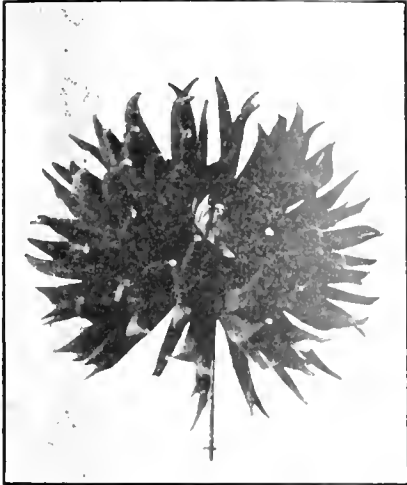
J. L. Dillon, of Bloomsburg, Pa., was killed on Tuesday morning, October 29, while superintending the unloading of a coal car. The funeral took place from his residence on Friday, November 2. This news will be a sad shock to a host of florists throughout the country to whom Mr. Dillon was known through his various business enterprises and his connection with the S. A. F. since its beginning. He was a regular attendant at the conventions of the society and a frequent participant in its debates.

NEWPORT NEWS.

On a recent visit to the greenhouse grounds of Mrs. Cornelius Vanderbilt at Newport, my attention was attracted to a few remaining flowers of *Amaryllis Belladonna* the last of a record crop obtained this season by Mr. Andrew J. Pow, the gardener. The plants are grown in a deep cold frame in the manner described by Kenneth Finlayson in an article in a recent issue of HORTICULTURE. The frame comprises six 3 ft. x 6 ft. sashes and from the plants in these Mr. Pow had then cut 300 blooms or 50 blooms from each sash. In addition to a large crop the quality of the blooms was exceedingly fine as was evident even from the few flowers still left at the time of my visit. As there does not seem to be any unsurmountable obstacle in the way, I should think *A. Belladonna* would be a good thing for commercial florists to grow, especially when the beauty and durability of the flowers are known, besides their adaptability for various forms of floral decoration. There are many things grown for cutting at the time these flowers come in that are infinitely more troublesome and of much less worth when done.

TWO NEW BEDFORD SEEDLINGS.

See New Bedford Horticultural Society,
Page 470.



NEWPORT



RUTH FORBES

TO MAKE A SUCCESSFUL CONVENTION.

The Horticultural Advertiser discusses our trade convention methods and tries to find inspiration for improving the British article. Item one: Should the ladies be induced to attend? Conclusion indefinite. Item two: Should we encourage a few sports on the side? Conclusion: It would never do at all; too much of it now in the regular work-a-day world. Item three: Exhibition of sundries and novelties? That is thought worthy of "careful consideration." It is interesting to know that our British cousins have reached the point of considering and comparing. Let them go ahead and adopt all three items; they will find they will work in all right. The late Lord Beaconsfield used to declare that the next best thing to an undoubted success was to make a big noise. Get the crowd there; that is the main thing. The business will sift itself clear all right.

The chrysanthemum show at Shaw's Garden, St. Louis, Mo., will open on November 12. About 3000 plants will be exhibited, Comte Torneili, Silver Wedding, President Roosevelt and Mistress Y. C. Warden being among the new claimants for favor. A tent will be erected for the exhibit.

FORESTRY IN MASSACHUSETTS.

To all Interested in the Forestry Problems of Massachusetts:

Having been appointed to the position of State Forester, I take this opportunity to say that in assuming my official duties I sincerely wish your hearty co-operation in furthering all true and worthy interests relative to forestry problems within this Commonwealth.

In accepting the position, I do so with the assurance and belief that all organizations and individuals interested in forestry will lend an assisting hand to further promote and develop this great and much-neglected economic industry.

It is believed that the forest service work throughout the State can be made a great blessing, provided people who own lands acquaint themselves with the workings of the offices of the State Forester.

I have been engaged in agricultural economics and education in New England for the past eleven years, and forestry instruction at the New Hampshire College, together with its practical application generally, has received my earnest study and natural interest.

The forest crop needs much skill and science in handling for best results. There are thousands of acres at present practically idle through mismanagement that should and eventually must be made a great resource to this Commonwealth. Let us check this unnecessary loss, and foster modern methods in rural affairs. Education and example are our tools to work with.

In behalf of the position which I hold as State Forester, I therefore extend to you a cordial invitation to consult my office at any and all times on forestry matters, and let it be generally known that the office is established by the State to accomplish great good for the whole State in general and each individual in so far as practicable.

FRANK WM. RANE.

Room 7, State House, Boston.

There is a fair amount of business but no rush. Chrysanthemums are now very much in evidence. Very good specimens are to be seen but, taken as a whole, the crop will not average up to the quality of last year. Cooler weather having set in, there is a noticeable improvement in carnation plants, in the houses, but the bloom is yet shy; though the present, with the chrysanthemums holding the boards, is supposed to be a restful season for carnations, all available blooms are quickly taken. Violets are also finding ready sales. The inferior grades of roses seem to be the slowest things on the market.

Walter Shaw, well known in Lenox, Mass., and Huntington, L. I., as a successful gardener, has started in business at Huntington, as the Huntington Nursery Company. Eight acres of land are devoted to nursery stock and one house 30x135 has been built for carnations and sweet peas.

NEW YELLOW CHRYSANTHEMUM.
MRS. WESTRAY LADD.

Our illustration shows a seedling yellow chrysanthemum Mrs. Westray Ladd which originated at the Overbrook Gardens of Edward A. Stroud. It was registered on Saturday last at Philadelphia and scored 89 points. Parentage *Cinna* x *Appleton*. First bloom cut Oct. 15th, 1906, from first crown bud.

NEWS NOTES.

L. Bilger has opened a flower store on Ridley avenue, Chester, Pa.

The present is pronounced by all the dealers to be the best bulb trade season on record.

Recent visitors in New York: W. R. Smith, Washington, D. C.; Wm. Jurgens, Newport, R. I.

Frank Harriatt has established quite an extensive nursery to the southeast of Indianapolis, Ind.

G. Forsis & Co. have opened a new florist store on the corner of 89th street and Madison avenue, New York City.

The Pittsburg Cut Flower Co., of Pittsburg, Pa., are fitting up the store at 222 Oliver avenue, for their occupation.

The Perennial Gardens Co., organized at Toledo, Ohio, last spring, will open a salesroom at 446 St. Clair street.

The State of Maryland has allotted \$5,000 for its horticultural and floral-cultural exhibit at the Jamestown Exposition next year.

Julius Lang, who has been doing business as wholesale florist at 53 West 30th street, New York, for many years, is closing out business and will discontinue after November 1.

N. Stewart Dunlop, who has charge of the floral department of the C. P. R. R., has just distributed 150,000 bulbs among the station agents to be used in beautifying their grounds. The coming year will be the tenth of this movement on the C. P. R. R. system.

SEED TRADE TOPICS

Latest reports indicate that the onion set crop is smaller in quantity and poorer in quality than earlier advices seemed to show. Louisville is quoting yellows at \$1.25 and whites at \$1.60 per bushel of 32 lbs. Chicago prices are slightly higher. These prices of course are for immediate shipment. Last year attention was called to the absurdity of calling 32 lbs. of onion sets a bushel, at this time of year, and it has been criticized before. At some remote date in the misty past, some believer in short weights and measures established 32 lbs. as the standard, and it has remained so ever since. It is surprising that seedsmen and buyers of sets should continue such an unjust practice. At this season of the year a bushel of hard clean sets will weigh nearer 40 than 32 lbs. Sometimes in the spring, when sets are thoroughly dried out, a bushel, with a liberal quantity of chaff added, might not weigh over 32 lbs., but never in the fall if the sets are worth wintering. It does not seem a difficult problem to solve, yet committees of seedsmen have wrestled with it, and given it up. They should try again.

There is much complaint against seed growers because of their failure to furnish definite crop reports earlier in the season than most of them are able to do. Much of this criticism is the result of impatience but more of it due to ignorance of actual conditions. Now before anything approaching a reliable forecast can be made, the grower must actually have in store not less than 50 per cent. of his crops, then if his crop inspection has been thorough, and he figures correctly, he can furnish a fairly reliable estimate. Sometimes however unexpected conditions nullify the knowledge gained from the most painstaking crop inspection, such for instance as rain during harvest, which occasionally ruins a good crop after it is made.

The length of time required after harvest to give an intelligent crop estimate depends much on the crop. Crops such as onion seed, radish, turnip, cabbage, and in fact nearly all

small seeds are much easier to estimate, than peas, beans, or corn. In the first place the acreage controlled by any one grower of small seeds is usually much smaller than that controlled by the grower of peas and beans; then the small seeds mature earlier and are usually in store earlier than peas and beans, and as to beans, is is often mid-winter before some crops are delivered. If seedsmen wanted guesses, it would not be so difficult to forecast crops, but they want data on which to base prices, and to enable them to cover possible shortages, therefore estimates must bear some resemblance to ultimate deliveries. It looks as if we would have to plod along for some time yet in the way we have been going.

Watson S. Woodruff, of S. D. Woodruff & Sons, Orange, Conn., has been nominated by the republicans of his district as their candidate for the State Legislature. As a nomination is usually tantamount to election, Mr. Woodruff with his great popularity in the district is practically certain of election, and Orange will have a representative of great energy and ability. Success to him.

The failure of the radish seed crop, chiefly in France, where most of the radish seed of commerce is grown, puts this specialty on the anxious seat. Market gardeners in France are glad to buy radish seed that will give even 60 per cent. of germination. There is also a decided shortage of garden beet seeds.

Prices have advanced greatly on scarlet Duc van Tholl tulips—in fact, on all scarlet tulips and on Kaisers Kroon, both in Europe and this country. London dealers are paying from 25 to 28 shillings for scarlet Duc and 45 to 48 shillings for Kaisers Kroon, an advance of about 40 per cent. London buys later than we do. There is a general scarcity in Holland of many of the higher priced tulips, due to heavy purchases by the farmers, who have been running heretofore on cheap varieties but have now turned their attention to the choicer sorts. One of these bulb farmers is known to have invested some \$40,000 in high-priced tulips this season, such varieties as Murillo, Proserpine, etc., for seed stocks. This, of course, will result three or four years hence in lower market prices for these sorts, but in the meantime slightly higher values may be looked for.

Conrad Appel, the wholesale seed house at Darmstadt, Germany, established in 1789, was awarded at this year's International Exhibition, at Milan, Italy, the second prize, the "prize of honor," for his ornamental lawn; and for a fine show case, containing all kinds of grass, clover and agricultural, deciduous and evergreen tree seeds, grass seed mixtures, and a complete collection of rare conifer cones, the highest award, the "Grand Prize."

Huntington & Page, seedsmen, have moved from their recent location to 210 N. Delaware St., Indianapolis, Ind.

BELGIAN GLASS.

The export of window glass from Belgium to the United States for the fiscal year ending June 30 amounted to \$1,053,823, against \$328,579 during the same period of 1905, an increase of over 70 per cent. Window glass is classified according to thickness, as follows:

Class.	Weight in ounces per Square ponce.	Thickness in millimeters
Glass for photography.....	14	1.5
Plain Glass.....	15 and 16	1.6 and 1.7
Semidouble glass	21	1.8
	24	1.9
Double glass....	26	2.0
	28	2.1
Treble glass....	32 and 36	3.5 and 3.9

The qualities usually manufactured are of 14 to 28 ounces, viz., of 1.1-2 to 2 millimeters thickness. There are 25 window-glass works in Belgium, all in the province of Hainaut, three of which are controlled by American companies. The annual production amounts approximately to about 300,000,000 square meters, 90 per cent. of which are exported.

TURF AND MANURE.

Vice-Consul C. Karminski, of Seville, writes concerning the effect of turf upon ordinary manure, as follows:

"Director Immendorff, of the agricultural test station at Jena (Germany), advocates the use of turf as a means of preserving manure. Results obtained through experiments in and about Jena demonstrate that the use of turf is far more efficient in preventing loss of nitrogen, while fermentation is in progress, than is sulphate of lime, phosphate of lime, sulphuric acid, etc. Turf permits the escape of but very little nitrogen, while the application of the above named chemicals is most deficient in result and expensive. The discovery of Professor Immendorff merely corroborates experiments of a similar nature conducted by Italian agriculturists.

The Brooklyn Times devotes an entire page of its issue of Oct. 20 to "Pleasure and profit in bulbs and house plants" under the various headings of "Forms of Vegetation Which Should be put in Soil Now," "How to get best Results from Bulbs Planted at this Season," "Value in Potted Plants," "To be in Fashion," "Raising Mushrooms," "Landscape Work a Factor in Land Development," "Decorative Plants," "Does your Horse Mutilate Trees?" "Some Popular Plants for the Home Garden."

THE CHRYSANTHEMUM, by Arthur Herrington. The most complete and practical book on the cultivation of the chrysanthemum published for Americans. Illustrated. Price 50c. postpaid. Horticulture Pub. Co., 11 Hamilton Place, Boston.

HEALTHY VIOLETS. Send us 25 cents for George Saltford's invaluable book on Violet Culture. The whole truth and nothing but the truth.

JOHNSON'S
Highest Quality

BULBS

*Tulips, Paper Whites
Narcissi, White Romans
Sweet Scented Peonies
Mushroom Spawn, etc.*

WRITE FOR OUR CATALOGUE—DON'T WAIT

JOHNSON SEED COMPANY
217 Market St. PHILADELPHIA, PA.

Herbert W. Johnson of the late firm of
Johnson & Stokes, President

MORE ABOUT FALL GRASS.

The "Practical Farmer" of Philadelphia in a recent issue takes "G. C. W." of HORTICULTURE to task for his advice in regard to that great lawn pest—"crab" or "fall" grass. The gist of the criticism is: That letting the crab grass grow to the milk stage then cutting with the scythe and raking off is bad advice because it had been tried in several places in West Philadelphia the past season and instead of a nice green lawn the result was a brown stubble. The Practical Farmer submits that the mower is the only thing to keep this pest down, ignoring entirely the recommendation of "G. C. W." as to the fall sowing of good seed on the aforesaid brown stubble so as to get ahead of any fall grass seeds still remaining in the soil. The illogical nature of the criticism may be realized when we consider that it is the lawn mower that causes the "crabbing" of the fall grass close to the ground. The sight of the digitate seeding stems perfectly ripe and shedding their seeds while quite flat on the ground is one familiar to us all in this neighborhood. This crab grass is a fierce proposition and we should welcome every suggestion that promises good results. I for one am anxious to be instructed but I have no patience with such illogical foolishness as that referred to in The Practical Farmer. As for Mr. Lonsdale and his advice—digging it out—very good and very effective, but look at the labor and expense. The method I recommended is just as effective, much quicker and vastly less expensive. And I want to give credit to the late Allan Barr who was the first man I know of in this locality to successfully follow this plan and who first called my attention to it. I have recommended it to my customers for many years and have yet to hear of a case where it did not work satisfactorily. As for the steam mower and its weight as a remedy, well, it may be so but I'll be hanged if I can see why! Mr. Kleinheinz claimed it did but I think he was mistaken not in results but in deductions—according to him—he has a steam mower and very little fall grass; ergo: the steam mower did it! I was up there one day on an inspection tour and found the gardeners sowing down a piece of lawn that looked to me a good thick sod already. I commented on this and was told that it was the regular custom to sow some seed all over every season whether the lawn seemed to need it or not, and that I think is what did the trick and not the weight of the steam mower. But I am willing to be instructed and would like to hear the logical reasons why the heavy mower kills the fall grass when the latter is perfectly flat on the ground and can't be touched with anything outside of a spud! Fall seeding is the scheme after the crab grass has been cleaned off under the scythe.

G. C. WATSON.

Through the advertisement in HORTICULTURE I disposed of all my stock, and shall be glad to use your paper again when I have more to offer. HENRY W. VOSE.

Hyde Park, Mass.

Have You Read the Advertisements this Week?

ARE YOU ACQUAINTED WITH

SINGLE LATE MAY FLOWERING, OR DECORATION DAY TULIPS?

These are exceptionally useful flowers for Decoration Day and every florist should plant out a few. Once planted they will remain for years, and serve you with a wealth of bloom.

Beauty of America. Creamy white; turning pink...	100	1000
Bizarre Tulips. Handsome, rich flowers, with yellow ground; finest mixed.....	\$1 25	\$10 00
Bouton d'Or. Deep golden yellow.....	85	7 50
Bridesmaid. Lovely soft pink.....	1 00	9 00
Byblooms. Beautiful late tulips, with white ground, blotched, striped or feathered with lilac, purple, violet, blue or black; finest mixed.....	1 25	10 00
Golden Eagle. Large bright yellow, edged with crimson..	1 35	10 00
Gesneriana (TRUE) Scarlet.....	1 50	12 00
Macropila. Crimson-scarlet, black center.....	75	6 00
Isabella (Shandon Bells). Carmine rose, shaded creamy white.....	2 00	18 00
Maiden's Blush, or Picotee. Clear white, margined on the edge with pink, pointed and reflexed petals; most beautiful.....	1 50	14 00
Retroflexa. Splendid yellow; reflex petals.....	2 50	22 00

PARROT, OR DRAGON TULIPS

PARROT TULIPS should be more largely grown; their odd colors and fantastic shapes make them ready sellers, and make a unique decoration, when placed in vases or low bowls.

Admiral de Constantinople. Large, red, yellow edge....	100	1000
Cramoise Brilliant. Rich blood crimson, with bluish markings.....	\$1 00	\$8 00
Latea Major. Large, showy yellow.....	1 00	9 00
Markgraaf Von Baden. Red and yellow, orange inside; very showy.....	1 00	8 00
Perfecta. Yellow, striped red.....	1 00	9 00
Superfine Mixed Parrot.....	75	7 00

All above less 10% if cash accompanies order.

LILIUM MULTIFLORUM

Boddington's Early or Easter Flowering Type

7-9-inch bulbs, 300 in a case.....	\$5.00 per 100;	\$45.00 per 1000
9-10-inch bulbs, 200 in a case.....	8.50 per 100;	\$80.00 per 1000

LILIUM GIGANTEUM AND ALL OTHER BULBS.

Send for Special Surplus Prices and Catalogue.

Dutch Romans or Miniature Hyacinths

To name.....	30c. per doz.;	\$2.00 per 100;	\$18.00 per 1000
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ARTHUR T. BODDINGTON, 342 W. 14th St., New York City.

Asparagus Plumosus Nanus

New Crop — Greenhouse Grown

EXTRA CHOICE SEED

100 SEEDS.....	60c
500 ".....	\$2.75
1000 ".....	5.00
5000 ".....	23.75
10,000 ".....	45.00

Send for our Wholesale Catalogue of Bulbs, Seeds and Seasonable Supplies.

HENRY F. MICHELL CO.

Flower Seed Specialists

1018 Market St., Philadelphia, Pa.

ARTHUR COWEE

GLADIOLUS SPECIALIST

Meadowvale Farm

BERLIN, N. Y.

HAS UNDER CULTIVATION

OVER 100 ACRES

COMPRISING

The Best Mixtures, Collections and Named Varieties in Existence.

Write for 1906 Catalog

Thorburn's Bulbs

Lilium Longiflorum

100	1000	100	1000
7 to 9 in. \$5.00	\$45.00	8 to 10 in. \$7.00	\$68.00

Also many of the leading sorts of

Hyacinths, Tulips and Narcissus. Pandanus utilis

Fresh seeds just received \$6.00 per 1000 seeds. Send for Trade List.

J. M. THORBURN & CO. 33 Barclay St., through to 38 Park Place NEW YORK

PANSIES

International, fine strain; English Prize, Parisian, finely variegated and shaded; also Giant Trimardeau, all colors and striped; also Odier, beautifully spotted. \$3.00 per 1000; 50c per 100, by mail.

F. A. BALLER, Bloomington, Ill.

CALIFORNIA NOTES.

No doubt the California Promotion Committee has been a valuable factor in the State's progression the last four or five years of its existence, and its thousands of State supporters, including the Growers' and Florists' Association, like to pat it fondly on every occasion. It has its emissaries now in the East and they are doing good work in interesting all classes of magazine publishers, and prominent daily papers, to run without price splendid notices of the State. And now the committee has come to the San Francisco correspondent of HORTICULTURE for a like favor, introducing the request with the assuring remark that their forthcoming surpassing work will afford an exceeding opportunity for plantmen, landscape gardeners and floriculturists. The news the committee is now handing out is based on a telegram received this week to the effect that Harlow N. Higinbotham, president of the Columbian Exposition of Chicago, is heartily in sympathy with the committee's movement to hold a Pacific Ocean Exposition in San Francisco in 1913. Rufus P. Jennings, chairman of the California Promotion Committee, had an hour's conference with Higinbotham, and the latter said:

"Now is the proper time to launch the proposition. I think it will attract a world-wide attendance, and that exhibitors will be greatly interested. By the time the exposition is held San Francisco will have fully recovered from the effects of its great April disaster and will in itself be an object lesson to the world of the way things are done in the California section of the country."

The Japanese floriculturists and horticulturists on the east side of San Francisco bay have stolen a march on the growers of this, California's metropolis side of the bay. Before the April disturbance P. H. Mayer, proprietor of the Glenwood Nurseries at Burlingame, was formulating plans for the organization of the San Francisco Florists' Board of Trade, Chinese and Japanese growers to be barred. Nothing has been heard of it since the disaster. But this week's news from the east side of the bay is that the Japs have formed a Gardeners' and Florists' Association, and none but Japs can belong. All workers in these industries have been getting \$1.50 a day and the union immediately advanced the scale to \$2 a day.

The valuable Brandegee collection of botanical specimens, together with the Brandegee library of over three thousand volumes of botanical works, and the furniture and fixtures for the care of the herbarium, have been presented to the botany department of the University of California. This gift is a most important one to the department for the reason that the herbarium contains over 100,000 specimens of plants, gathered principally in Southern California, Arizona and Mexico, a region which is but little covered in the original collection of the university. The university herbarium is now one of the largest and most valuable west of Harvard.

MABELLE **NEW PINK CARNATION**
FOR 1907

COLOR—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Law-oo. Unlike most Pinks, the brightest sun does not injure the color. **SIZE**—3 to 4 inches in diameter when established. **ODOR**—Pleasing, but not strong. **STEMS**—Invariably strong, but always graceful, ranging from 12 to 16 inches during the season. **HABIT, etc.**—A very quick, a tive grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires support & very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. **PRODUCTIVE ESS**—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever known. **Stock Limited Delivery January 5th to 10th and later.**

Price \$12.00 per 100, \$100.00 per 1000

The H. WEBER & SONS CO., Oakland, Md.

"SECOND EDITION"
2000 Cloire de Lorraine Begonias

Even better than our last crop, and they were winners.

\$10 per 100. \$90 per 1000

Order now before cold weather.

Money refunded if not satisfactory.

In two inch pots, ready at once for threes.

E. A. Butler & Son
 NIAGARA FALLS, N. Y.

PHOENIX ROEBELINI
 BEAUTIFUL, GRACEFUL, USEFUL

7-inch POT PLANTS.	Each	10	100
4-inch	\$4.00	\$35.00	\$300.00
	1.00	9.00	80.00

WELL ROOTED SEEDLINGS

4 to 5-inch HIGH.	100	1000	15000
	\$5.00	\$40.00	\$300.00

JOHN LEWIS CHILDS
 Floral Park, - - - New York

Brockton Dahlia Farm

Has the largest and finest collection of Dahlias in United States, with prices that will suit the trade. *Send for price list.*

W. P. LOTHROP, Prop.,
 East Bridgewater, Mass.

In dealing with the question of olive pickling in California Professor F. T. Bioletti, viticultural expert of the State University delivered this week a smashing blow at the prestige of the big, green olives which are imported from Spain and paid for and eaten by gourmets in America. Persons who have been in the habit of devouring the fancy variety of imported olive, green and acidulous, are informed by Professor Bioletti that the Spanish olive is absolutely indigestible. Such olives are as valuable, says the professor, as unripe peaches or apples, and no more. And in the same breath he sounds the praises of ripe pickled California olives which he declared constitute an extremely nutritious and digestible form of food; that this home product contains a large amount of oil, carbo-hydrates and some nitrogenous matter, and in some countries replaces meat to a certain extent.

The U. S. Propagating Gardens at Washington, D. C., have a noteworthy exhibit of chrysanthemums, most of the standard varieties being cultivated. Amorita and Baden Powell are noteworthy pinks, Donald McLeod is a fine yellow, while W. J. Bryan is white as a new 16 to 1 silver dollar—and much larger.

RICHMOND ROSE 2 1/2 in.	100	1000
KAISERIN "	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
ENCHANIRESS	3.00	25.00
QUEEN and LAWSON	2.00	18.00

E. H. PYE, FLORIST
 UPPER NYACK, N. Y.

DON'T Be Afraid To Invest In
ROSE PINK ENCHANTRESS

It is both free and "fancy"—a sure money-maker.
 Price \$7.00 per 100; \$60 per 1000
 Del very January and later. Write for Descriptive Circular.

S. S. SKIDELSKY
 824 No. 24th Street, Philadelphia

Chicago Carnation Co.
JOLIET, ILL.

We have the leaders in carnations for 1907.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Geraniums

Rooted Cuttings in any quantity after Nov. 15, at moderate prices. Send for price list.

ALBERT M. HERR, Lancaster, Pa.
 Mention Horticulture when you write

MINNEAPOLIS PLANTINGS.

The local nurseries are doing a good business—particularly in outside shipments. Stock in this section is clean and free from San Jose scale, neither is there appearance of elm leaf beetle or gypsy moth.

The park department are planting bulbs in the principal flower beds for a spring floral display, and weather conditions still permit outside work.

Chrysanthemum Stock Plants

Heavy Plants of C. Testout and Jeanne Nomin, 8c. each; Mde. Mountmort, Opah, A. Byron, H. Parr, L. Filkins, B. Wells, Dr. Enguehart, M. Bailey, Mrs. T. W. Pockett, Lord Hopetown, Chilus 5c. each; Montrovia and Cheltoni, 6c. each.

W. WYMAN, - Swampscott, Mass.

SMILAX PLANTS

Strong bushy plants many times cut back, and ready for a show.

2-in. pots	\$1.00 per 100; \$9.00 per 1000
3-in. pots	2.00 " " 18.00 " "
Seedlings from flats	4.00 " "

Have your own smilax plants for the trade 18 years and never had finer stock. Samples 10 cents.

R. KILBOURN, Clinton, N. Y.

Have You Read the Advertisements this Week?

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for Samples. E. A. BEAVEN, Evergreen, Ala.

PHILADELPHIA NOTES.

The ever increasing business of the H. F. Michell Co. has caused another division of Mr. Michell's personal work. This time it is the calling back of his old manager Paul Richter from Virginia to occupy a new position created for him under the title of general superintendent. Mr. Richter has been greatly benefited in health by his sojourn in the South, and is back again in his old-time form. Mr. J. E. Smith retains the position of manager which he has occupied since May.

Jno. Welsh Young is in the hospital with an attack of appendicitis. At this writing (Tuesday) his many friends are glad to hear that he is progressing favorably.

Bouvardia Humboldtii is a novelty at Edward Reid's this week, its very large, fragrant, white flowers creating instant attention and finding ready sale.

E. J. Fancourt of the Pennock-Meehan Co. has just returned from a short trip among the Southern growers.

Mr. and Mrs. Jno. Burton, accompanied by Jno. N. May of Summit, N. J., leave for Chicago on Monday. Mr. Burton has been appointed a judge at the Chicago show.

A. B. Cartledge of Pennock Bros., speaks well of two new chrysanthemums recently passed upon by the C. S. A. committee, namely: Mrs. G. A. Lotze, a creamy white incurved, sent by Gustav A. Lotze, Glenburnie, Md., and an early yellow from Edward A. Stroud. The former is a cross between Alice Byron and Nellie Pockett. Mr. Stroud's Mrs. Westray Ladd, according to Mr. Cartledge, is a splendid early yellow and especially remarkable for stem and foliage.

Tritomas and autumn foliage make a splendid combination at this season of the year, and are being used with fine effect by a number of our leading florists. Most of the flowers come from Riverton. One of the head centers for autumn foliage is at McKisick's on Filbert street.

INCORPORATED.

Grover Nursery Co.; incorporators. F. E. Grover, J. H. Welsh, F. A. Parmenter of Rochester, N. Y.; capital, \$2,000.

Koropp, Chicago; L. Koropp, G. J. Meler, A. E. Wilson, incorporators; capital stock, \$20,000.

Euphorbia fulgens (Syn. Jacquiniæ-flora), with its beautiful orange-red sprays, was considerably in evidence during the holidays last season. Having generous stems it lends itself readily to many cut flower uses. It is a second cousin of the poinsettia, requiring similar culture, and of course will not stand cold. Supplies of this should be arranged for at once, as there are not many who now cultivate this old-fashioned plant.

A MODEL FLOWER STORE AT ST. PAUL.

Hohn & Olson are giving up their stand on St. Peters street, St. Paul, and this week will move into their new store, 20-22-24 W. 5th street. This store has larger floor space than any other in the country and their fixtures are as elaborate as the best New York stores. The entrance floor is tiled and their names inlaid in mosaic design thereon. The windows reach from floor to ceiling, and back from these for ten feet is a spread of mosaic tiling. The walls are of a light green with large mirrors and nine arc lights and 150 incandescence lamps will be used for the lighting.

The ice box is of mahogany veneer, with floor of antique marble slabs, and the whole outside base of the same material. Corners are of circle glass. The cost was over \$3000. Mahogany cases with large glass fronts will be set against the opposite wall. In the rear, beneath a large skylight and over a cement floor, bench shelves have been built, and circle in and around the pillars; on these are large palms, some 15 ft. in height, and lower down are ferns of all sizes.

AN AUSPICIOUS OPENING.

H. M. Robinson & Co. opened their new wholesale place at 15 Province street, Boston, with an entertainment to their friends in the trade on Monday evening, October 29. There were refreshments, instrumental and vocal music from 7 to 10 o'clock in the evening and some 150 members of the local trade took opportunity to call and extend congratulations.

Have You Read the Advertisements this Week?

SAMUEL MURRAY
Florist

Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO
Both 'Phones 2670 Main

FRED C. WEBER
FLORIST

4326-28 ST. LOUIS, MO.
OLIVE STREET
Established 1873
Long Distance Phone Bell Lindell 676

Geo. H. Cooke
FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

571 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

YOUNG & NUGENT

42 West 28 St., NEW YORK

"FLOWERS BY TELEGRAPH"

JOHN BREITMEYER'S
SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N. Y.



WASHINGTON,
D. C.

GUDE'S

Theodore Miller
FLORIST

Long Distance Phones: Bell, Forest 56; Kinloch, Delmar 201
4832 Delmar Boul. ST. LOUIS, MO.

BOXWOOD

15c. per pound
PACKED IN 50 POUND CRATES

LEO NIESSEN CO.

WHOLESALE FLORISTS
1217 Arch St., PHILA.
Store open from 7 A. M. to 8 P. M.

S. S. Pennock-Meehan Co.

ONCIDIUM, \$2.50 and \$3.00
FORMOSUM (white), 40c.
CATTLEYAS, 50c.
VALLEY, \$3.00 and \$4.00
CHRYSANTHEMUMS:
Medium, \$1.50 and \$2.00
Fancy, \$3.00 and \$4.00

The Wholesale Florists of PHILADELPHIA
1608 to 1618 Lunlow St. STORE CLOSES 8 P. M.

AMERICAN BEAUTY

and all other Roses
CHRYSANTHEMUMS
LILY OF THE VALLEY
CARNATIONS

WELCH BROS.

226 Devonshire St., BOSTON, MASS.

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

EVERYTHING SEASONABLE IN
CUT FLOWERS
EDWARD REID, Wholesale Florist
1526 Ranstead Street, PHILADELPHIA
Store Closes 8 P. M.

CHRYSANTHEMUMS

W. E. McKISSICK

Wholesale Florist
1221 Filbert St., PHILADELPHIA

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

PETER REINBERG

WHOLESALE
CUT FLOWERS
51 Wabash Av., Chicago, Ill.
In writing advertisers, mention Horticulture

PITTSBURG FLORISTS' EXCHANGE

217-219-221-223 Diamond St.
PITTSBURG, PA.
Largest Wholesale House Between
New York and Chicago.

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.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers
N. F. McCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO October 30	ST. LOUIS October 22	PHILA. October 29	BOSTON November 1
ROSES				
Am. Beauty, Fan. & Sp.	25.00 to 35.00	25.00 to 30.00	25.00 to	20.00 to 25.00
" Extra.....	18.00 to 20.00	15.00 to 20.00	18.00 to 20.00	8.00 to 15.00
" No. 1.....	10.00 to 15.00	8.00 to 12.50	12.00 to 15.00	5.00 to 6.00
" Lower grades.....	6.00 to 8.00	4.00 to 6.00	5.00 to 8.00	3.00 to 4.00
Bride & 'Maid—Fan. & Sp.....	5.00 to 8.00	5.00 to 6.00	6.00 to 8.00	4.00 to 8.00
" Ordinary.....	4.00 to 4.00	3.00 to 4.00	2.00 to 4.00	1.00 to 4.00
Golden Gate, Fancy.....	5.00 to 8.00	5.00 to 6.00	6.00 to 8.00	3.00 to 8.00
" Ordinary.....	2.00 to 4.00	3.00 to 4.00	2.00 to 4.00	1.00 to 4.00
Liberty, Fancy.....	4.00 to 6.00	5.00 to 6.00	6.00 to 8.00	3.00 to 8.00
" Ordinary.....	2.00 to 3.00	2.00 to 4.00	2.00 to 4.00	1.00 to 3.00
Richmond, Fancy.....	4.00 to 6.00	5.00 to 6.00	6.00 to 8.00	3.00 to 8.00
" Ordinary.....	2.00 to 3.00	2.00 to 4.00	2.00 to 4.00	1.00 to 3.00
Kaiserin, Carnot, Chatenay, Fancy.....	4.00 to 6.00	6.00 to 8.00	6.00 to 8.00	3.00 to 8.00
" Ordinary.....	2.00 to 3.00	2.00 to 5.00	2.00 to 4.00	1.00 to 3.00
CARNATIONS				
Fancy.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	1.50 to 2.00
Ordinary.....	1.50 to 2.00	1.00 to 2.00	1.50 to 2.50	.75 to 1.00
MISCELLANEOUS				
Chrysanthemums.....	25.00 to	5.00 to 30.00	8.00 to 25.00	4.00 to 12.00
Cattleyas.....	..... to .....	..... to 40.00	..... to 50.00	40.00 to 50.00
Lilies.....	12.00 to 15.00	..... to	12.50 to	8.00 to 12.00
Violets.....	..... to .....	..... to .....	..... to .....	.25 to .60
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00	3.00 to 4.00
Dahlias.....	2.00 to 3.00	..... to .....	..... to .....	..... to
Tuberose.....	4.00 to 6.00	..... to .....	..... to .....	..... to .50
Mignonette.....	2.00 to 5.00	..... to .....	..... to	1.00 to 2.00
Adiantum Cuneatum.....	.75 to 1.00	1.00 to 1.25	1.00 to .....	.50 to 1.00
" Croweanum.....	..... to .....	..... to	1.00 to	1.00 to 1.50
Smilax.....	12.00 to 18.00	..... to 12.50	12.50 to 15.00	8.00 to 12.00
Asparagus Plumosus, strings.....	20.00 to	25.00 to 50.00	35.00 to 50.00	..... to 50.00
" " & Sprengeri bunches.....	15.00 to 25.00	25.00 to 100.00	35.00 to 50.00	20.00 to 50.00

J.A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and Carnations
A Specialty.....

WHOLESALE GROWER of **CUT FLOWERS**

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

VICTORY

Strong healthy field grown plants, now ready, 1st size \$15.00 per 100; 2d size \$12.00 per 100; 3d size \$10.00 per 100.
A discount for cash with order.

GUTTMAN & WEBER, 43 West 28th St., N. Y.

CUT FLOWER MARKET REPORTS

BOSTON The cut flower market is in a deplorable condition from the grower's standpoint this week. Trade, on the whole, is very unsatisfactory on every line except perhaps white and pink chrysanthemums, which are moving fairly well at the present moment. The early varieties of chrysanthemums are all gone and the mid-seasons hold sway, but few growers are growing specimen blooms for the market. The carnation supply is heavy, but the outlet is unequal to the influx. The same holds true of the ordinary brand of roses. American Beauty sells fairly well, but at reduced rates. Violets are improving.

BUFFALO Again winter conditions the past week shortened the supply, especially in the line of carnations and other stock. Roses of select quality were not so plentiful though medium grades were too abundant at times. Killarney, Richmond, Detroit and others of good quality were bought up quickly. Beauties were also in fair demand. Chrysanthemums were more plentiful and prices dropped considerable, especially the ordinary quality, such as Pacific, Kolh and Polly Rose. Some extra fine Halliday and Lady Harriet were seen and sold at sight. Violets being more fragrant and of better quality are selling more rapidly. Lily of the valley a little on the quiet list. Lilies are of fine quality with demand good, and green goods are in abundant supply.

CHICAGO Business continued good during the week, stock arriving more plentifully. The carnation is still a scarce item but shows a little improvement in quality. Prices are keeping up well. Good Bride and Bridesmaids roses are in demand; the shorter stock was a little heavy on the market first part of the week but later the demand improved. Red roses are plentiful with the exception of American Beauties. Chrysanthemums are arriving more freely but are picked up as soon as they appear, especially the better grades none of which are standing around for want of a buyer. Orchids and New York violets are arriving in fine condition and find a good demand. Lily of the valley is a little scarce. Plenty of smilax and green goods. Shipping trade is heavy.

COLUMBUS Another week of good business has just closed. Chrysanthemums are now in good quantity and fine quality; selling well. Violets are more plenty and their color better. Carnations are also of better quality, although not over plenty. Roses are remarkably good, with no change in

price for several weeks now. Other stock, and green goods, need no special mention. Trade in all lines is good, and things will soon be booming for Thanksgiving.

INDIANAPOLIS Business the past week was considered good. Chrysanthemums are now quite a factor arriving in large quantities and selling without difficulty. Good tea roses are more plentiful and much improved in quality. Good Beauties are much in evidence with a brisk demand. The call for good carnations is far in excess of the supply. The general quality of stock in all lines is above the average and the more recent introductions of early chrysanthemums certainly mark an epoch in the cultivation of the autumn favorite. Violets are poor and scarce. Lily of the valley and orchids have never had a better run than during the month of October. Lilies are not abundant and not especially in demand.

LOUISVILLE The condition of business the previous week was very good, stock in almost all lines moving well. Carnations can be had in better quantities, and find ready sale. Roses average good in quality and quantity, and have a satisfactory demand. Chrysanthemums are in abundant supply and move well. A few lilies are on the market. Violets and lilies of the valley sell well. Other stock up to requirements.

NEW YORK The increase in quantity of roses coming to the wholesale markets has been met by a falling off in the demand and a weakening of values. It is also true that the quality generally has improved greatly. Chrysanthemums are coming on rapidly and practically control the market, selling in greater quantities than any

other flower at the present time; the return to popular favor is unmistakable; high quality blooms are plentiful. Carnations are in the dumps, selling slowly and cheap. Violets are splendid for so early a date—never been better. But their sale is very erratic and values fluctuate from day to day. Orchids hold their own with gratifying steadiness; cattleyas are superb.

PHILADELPHIA There was a distinct improvement in the quality of flowers received last week, especially in chrysanthemums. A good many of the hardy chrysanthemums are arriving of excellent quality and find ready sale, especially in the whites. Carnations also improved. Lawson is scarce this year, many growers having lost their plants. Beauty roses are greatly improved as to stem, foliage and flower. Good Richmond and Liberty are plentiful the latter being a trifle better as to color at present. Killarney and Chatenay are also excellent but Bridesmaids are poor as to color. Growers complain that their double violets are not flowering as well as last year for some reason. Small evergreens for window boxes are beginning to make their appearance. There will be a brisk demand for these soon.

"TWIN CITIES" The week past has been cold, cloudy—the outlook for cut flowers dismal, and were it not for the appearance of chrysanthemums, the retailers would have scarcely anything to offer their customers; for roses and carnations are far short of the demand.

We are told by one who knows, that the new decorative foliage plant, *Ficus pandurata*, requires to be kept quite dry. Any superfluous watering will cause the leaves to drop off at once.

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	Last Half of Week ending Oct. 27 1906	First Half of Week beginning Oct. 29 1906		Last Half of Week ending Oct. 27 1906	First Half of Week beginning Oct. 29 1906
Roses					
Am. Beauty, fan and sp.	15.00 to 15.00	15.00 to 25.00	Carnations, Fancy	2.00 to 4.00	2.00 to 4.00
" extra	10.00 to 12.00	10.00 to 12.00	Carnations, Ordinary	1.00 to 1.50	1.00 to 1.50
" No. 1.	6.00 to 10.00	6.00 to 10.00	Chrysanthemums	5.00 to 25.00	5.00 to 25.00
" Lower grades	1.00 to 4.00	1.00 to 4.00	Catleyas	35.00 to 40.00	35.00 to 40.00
Bride & 'Maid, fan and sp.	4.00 to 6.00	4.00 to 6.00	Lilies	10.00 to 12.00	10.00 to 12.00
" Ordinary .....	.50 to 2.00	.50 to 2.00	Lily of the Valley	1.00 to 4.00	1.00 to 4.00
Golden Gate, fancy	4.00 to 6.00	4.00 to 6.00	" " .....	..... to .....	..... to
" ordinary .....	.50 to 2.00	.50 to 2.00	" " .....	..... to .....	..... to
Liberty, fancy	5.00 to 8.00	5.00 to 8.00	" " .....	..... to .....	..... to
" ordinary .....	.50 to 2.00	.50 to 2.00	" " .....	..... to .....	..... to
Richmond, fancy	5.00 to 8.00	5.00 to 8.00	" " .....	..... to .....	..... to
" ordinary .....	.50 to 2.00	.50 to 2.00	" " .....	..... to .....	..... to
Kaiserin, Carnot, Chateaux, fancy.	4.00 to 6.00	4.00 to 6.00	" " to to
" " ordinary50 to 2.00	.50 to 2.00	" " to to

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PER 100. TO DEALERS ONLY.

	CINCINNATI October 30	DETROIT October 16	BUFFALO October 30	PITTSBURG October 20
ROSES				
Am. Beauty, Fan, and Sp.	30.00 to 40.00	30.00 to 40.00	25.00 to 35.00	20.00 to 25.00
Extra	20.00 to 25.00	20.00 to 25.00	15.00 to 20.00	15.00 to 20.00
No. 1	15.00 to 20.00	20.00 to 25.00	10.00 to 15.00	8.00 to 12.00
Lower grades	5.00 to 10.00	10.00 to 15.00	3.00 to 4.00	4.00 to 5.00
Bride and Maid—Fan, and Sp.	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Golden Gate, Fancy	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Liberty, Fancy	5.00 to 6.00	6.00 to 8.00	7.00 to 8.00	8.00 to 10.00
Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Richmond, Fancy	5.00 to 6.00	6.00 to 8.00	7.00 to 8.00	8.00 to 10.00
Ordinary	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Kaiserin, Carnot, Chatenay, Fancy	5.00 to 6.00	6.00 to 8.00	6.00 to 7.00	7.00 to 8.00
Ordinary	3.00 to 4.00	4.00 to 6.00	3.00 to 4.00	4.00 to 6.00
CARNATIONS				
Fancy	2.00 to 3.00	2.50 to 3.00	2.00 to 3.00	3.00 to 3.50
Ordinary	1.00 to 2.00	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00
MISCELLANEOUS				
Chrysanthemums	5.00 to 25.00	12.00 to 20.00	6.00 to 25.00	6.00 to 25.00
Cattleyas	..... to 50.00	..... to 50.00	..... to 50.00	..... to 50.00
Lilies	8.00 to 10.00	12.50 to 15.00	5.00 to 15.00	12.50 to 15.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Dahlia	1.00 to 2.00	2.00 to 3.00	1.00 to 3.00	..... to 3.00
Tuberose	..... to 3.00	..... to 4.00	..... to 4.00	..... to 4.00
Mignonette	..... to 1.00	..... to 1.00	..... to 1.50	..... to 1.00
Adiantum Cuneatum	..... to 1.00	..... to 2.00	..... to 1.50	..... to .75
Croweaum	..... to 2.00	..... to 3.00	..... to 1.50	..... to 1.25
Smilax	..... to 12.50	..... to 15.00	..... to 12.50	..... to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	50.00 to 60.00	40.00 to 50.00	50.00 to 60.00
" & Sprengerii, bunches	35.00 to 40.00	30.00 to 35.00	25.00 to 30.00	30.00 to 40.00

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N. F. McCarthy & Co., 84 Hawley St.,
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J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.
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J. Stern & Co., 1928 Germantown Ave.,
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FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
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Fred C. Weber, 426-28 Olive St.,
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J. Breitmeyer's Sons, Miami & Gratiot
Aves., Detroit, Mich.
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Fhos. Young, Jr., 41 W. 28th St., New York
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Eyres, 11 N. Pearl St., Albany, N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St.,
Washington, D. C.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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Young & Nugent, 42 W. 28th St., New York.
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Theodore Miller, 4832 Delmar Bvd.,
St. Louis, Mo.
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FLOWERING PLANTS.

Baudisch & Co., Union Hill, N. J.
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FLOWER POTS.

W. H. Ernest, 28th and M Sts.,
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FREESIAs.

Wm. Elliott & Sons,
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GALAX.

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Michigan Cut Flower Co., Detroit
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C. W. Caldwell, Mgr., Galax, Va.
Galax Leaves.
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GERANIUMS.

A. M. Herr, Lancaster, Pa.
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GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin,
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GLASS.

Boston Plate & Window Glass Co., Boston.
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Standard Plate Glass Co., Boston.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square,
New York.
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Hitchings & Co., 1170 Broadway,
New York.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Touawanda, N. Y.
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J. C. Moninger Co., 117 East Blackhawk St.,
Chicago, Ill.
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Weathered Co., Box 789, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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Chas. H. Manley, Premier Mfg. Works,
St. Johns, Mich.
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HARDY FERNS AND SUPPLIES.

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The Korvan Co.,
20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dilger, Mgr.
Fancy Ferns.
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E. A. Beaven, Evergreen, Ala.
Fadefless Sheet Moss; Lyrata.
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L. B. Brague, Hinsdale, Mass.
Hardy Cut Ferns, Christmas Trees, Baled
Spruce.

HARDY PERENNIALS.

M. H. Walsh, Woods Hole, Mass.
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Bay State Nurseries, 600 Adams St.,
N. Abington, Mass.

Hardy Herbaceous Perennials.
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Eastern Nurseries, Jamaica Plain, Mass.
Herbaceous Plants.
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Lord & Burnham Co.,
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P. J. Berekmaus Co., Inc.,
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INSECTICIDES.

Hammond's Paint & S. S. Works, Fishkill,
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Yokohama Nurseries, 31 Barclay St., N. Y.
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KENTIAS.

Godfrey Aschmann, 1012 Ontario St.,
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Wm. W. Edgar Co., Waverly, Mass.
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A. Leuthy & Co., Rosindale, Mass.
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Fred C. Weber, 426 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway,
Kansas City, Mo.
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Gude Bros. Co., 1214 F St.,
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Eyres, 11 N. Pearl St., Albany, N. Y.
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Young & Nugent, 42 W. 28 St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone
connections.

Theodore Miller, 4832 Delmar Bvd.,
St. Louis, Mo.
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LILIUM HARRISII.

F. R. Pierson Co., Tarrytown-on-Hudson,
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LILY OF THE VALLEY.

John Scheepers & Co., 26 Old Slip, N. Y.
Excellenta.
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MOREHEAD RETURN TRAP.

Moorehead Mfg. Co., Detroit, Mich.
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MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
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NARCISSUS.

Stumpp & Walter Co., 59 Barclay St., N. Y.
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Waranoar & Co., Sassenheim, Holland
Wm. Elliott & Sons,
201 Fulton St., New York.

NICO-FUME.

Ky. Tobacco Product Co., Louisville, Ky

NICOTEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.
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NURSERY STOCK.

John Waterer & Sons, Ltd.,
American Nursery, Raughot, England
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Bay State Nurseries, N. Abington, Mass.
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ORCHIDS.

S. S. Pennock-Meehan Co.,
1608-1618 Ludlow St., Phila.
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ORCHID PLANTS.

- Lager & Hurrell, Summit, N. J.
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- Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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- Julius Roehrs Co., Rutherford, N. J.
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- Carrillo & Baldwin, Socanous, N. J.
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- A Held, 11-19 William St., New York.
Orchids for Spring Delivery.
For page see List of Advertisers.
- J. A. Manda, 191 Valley Road, W. Orange,
N. J.
Orchids for Beginners.
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PALMS.

- A. Lenthy & Co., Roslindale, Mass.
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- Henry A. Dreer, Philadelphia.
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PANDANUS.

- J. A. Peterson, McHenry Av., Cincinnati, O.
Pandanus Veitchii.
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PANSIES.

- F. A. Baller, Bloomington, Ill.
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PATENTS.

- Siggers & Siggers, Washington, D. C.
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PEAT.

- F. J. Scott & Co., Loyd, N. Y. Box 24.

PEONIES.

- Gilbert H. Wild, Sarcoxie, Mo.
Warnaar & Co., Sassenheim, Holland.
Edward Swayne, West Chester, Pa.
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- Johnson Seed Co., 217 Market St. Phila.
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POT HANGERS.

- Pot hangers, Kramer's \$1 doz. by exp.
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PRIMULAS.

- Baudisch & Co., Union Hill, N. J.
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- Primula Obe. Grandiflora. 4 in. pots.
\$6 per 100. Cash, please. A. Reley & Son,
Poughkeepsie, N. Y.
- Primula Obe. Grandiflora. 2 in. pots
\$3.00 per 100. Edward Allen, Pfalsfeld,
Conn

RHODODENDRONS.

- John Waterer & Sons, Ltd., American
Nursery, Bagshot, Eng.
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ROSES.

- M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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- E. H. Pye, Upper Nyack, N. Y.
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- F. W. O. Schmitz, Prince Bay, N. Y.
Baby Ramblers.
- American Beauties, 2-in., \$55.00; 3-in.,
\$8.00 1000. Cash. J. Henry Bartram,
Landsdowne, Pa.
- Roses. Baby Rambler, the strongest dormant
stock in the country, \$25.00 per 100;
2 1-2 in. pot plants, \$7.00 per 100, \$65.00
per 1000. Brown Bros. Co., Rochester,
N. Y.

The beautiful new pink rose, MISS
KATE MOULTON, is the queen of all
pink roses. It's a winner and you should
grow it. Price \$30.00 100; 500 \$125.00;
1000 \$200.00; 5000 and upwards, \$175
per 1000. Minneapolis Floral Co., Minneapolis,
Minn.

SEEDS.

- T. J. Grey & Co., 32 So. Market St.
Boston, Mass.
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- Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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SEEDS—Continued.

- W. Atlee Burpee & Co., Philadelphia.
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- J. M. Thorburn & Co.,
33 Barclay St., New York.
Fandanus Utilis Seeds.
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- H. F. Michell Co., 1017 Market St.
Philadelphia, Pa.
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- R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
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- A. T. Boddington, 342 W. 14th St., N. Y.
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- James Vick's Sons, Rochester, N. Y.
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- W. W. Rawson & Co., 5 Union St., Boston.
True Irish Shamrock Seed.
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- Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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- G. C. Watson, Dohson Bldg., Phila.
Grass Seeds.
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- H. E. Flske Seed Co.,
12 and 13 Fanell Hall Sq., Boston.
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- Riekards Bros., 37 East 19th St., New York.
Giant Cyclamen Seeds.
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- Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and
Tree Seeds.

SHEEP MANURE.

- Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Wizard Brand.

SHEET MOSS.

- E. A. Reaven, Evergreen, Ala.
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WILD SMILAX.

- E. A. Reaven, Evergreen, Ala.
Southern Smilax.
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SMILAX PLANTS.

- R. Kilbourn, Clinton, N. Y.
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- J. C. Schmidt Co., Bristol, Pa.
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SPHAGNUM MOSS.

- Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.
- Fresh, clean, 5 bbl. bale, \$1.25; 2 bales,
\$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash.
H. R. Akers, Chatsworth, N. J.

SPIRAEA.

- Warnaar & Co., Sassenheim, Holland.

STEAM TRAP.

- E. Hippard, Youngstown, O.

TOMATO PLANTS.

- Strong Tomato plants for forcing, \$2.00
per 100, cash. Roney Bros., West Grove,
Pa.

TOMATO SEEDS.

- Wm. Sim, Cliffondale, Mass.
Comet Tomato.
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VENTILATING APPARATUS.

- Lord & Burham Co.,
1133 Broadway, New York.
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- Herson U-Bar Co., 1 Madison Sq., N. Y.
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- Hilfings & Co., 1170 Broadway, N. Y.
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- John A. Scohlay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
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- Weathered Co., 46 and 48 Marlon St., N. Y.
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- Foley Mfg. Co., 471 W. 22nd St., Chicago.
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- J. C. Monloger Co., 421 Hawthorne Ave.,
Chicago.
The Chicago Lifter.

VINCAS.

- Otto Katzenstein & Co., Atlanta, Ga.
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VIOLETS.

- H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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- J. C. Schmidt Co., Bristol, Pa.
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- Charles H. Green, Spencer, Mass.
Princess of Wales.
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- Princess Violets, strong, field grown
plants \$45.00 per 1000, cash. George W.
Fullick, Cohituate, Mass.
- Gov. Herrick Violet, No. 1 shape, 2 1-2 in.
pots, ready to bench, \$2.00 per doz., \$10.00
per 100, \$80.00 per 1000. W. A. Calhoun,
3226 Euclid Ave., East Cleveland, Ohio.

WIREWORK.

- Reed & Keller, 122 W. 25th St., New York.
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- Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.

Boston.

- N. F. McCarthy & Co., 84 Hawley St.,
Boston.
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- H. M. Robinson & Co., 15 Province St.,
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- George A. Sutherland Co., 34 Hawley St.,
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- Welch Bros., 226 Devonshire St., Boston.
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Buffalo.

- Wm. F. Kasting, 383-87 Ellicott St., Buf-
falo, N. Y.
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Chicago.

- J. A. Budlong, 37 Randolph St., Chicago.
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- Chas. W. McKellar, 51 Wabash Av., Chicago.
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- Peter Reinberg, 51 Wabash Av., Chicago.
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Detroit.

- Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Pilger, mgr.
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New York.

- J. K. Allen, 106 W. 28th St., New York.
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- Wm. Stuart Allen Co., 53 W. 28th St.,
New York.
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- J. S. Fenrich, 110 W. 28th St., New York.
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- Ford Bros., 48 West 28th St., New York.
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- H. E. Froment, 57 W. 28th St., New York.
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- Alex. J. Guttman, 43 West 28th St.
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- E. C. Horan, 55 West 28th St., New York.
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- Phillip F. Kessler, 55 W. 26th St., New York.
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- Julius Lang, 53 West 30th St., New York.
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- A. H. Langjahr, 55 W. 28th St., New York.
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- James McManus, 42 W. 28th St., New York.
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- Chas. Millang, 50 West 29th St., New York.
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- Frank Millang, 55-57 W. 26th St., New
York.
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- John I. Raynor, 49 W. 28th St., New York.
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- W. F. Sheridan, 39 W. 28th St., New York.
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- Traendly & Schenck, 44 W. 28th St., New
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- Hicks & Crawbuck, Inc., 76 and 78 Court
St., Brooklyn, N. Y.
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- John Young, 51 W. 28th St., New York.
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Philadelphia.W. E. McKissiek, 1221 Filbert St., Philadelphia, Pa.
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For page see List of Advertisers.Edward Reid, 1526 Ranstead St., Philadelphia, Pa.
For page see List of Advertisers.**Pittsburg.**J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
For page see List of Advertisers.Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
For page see List of Advertisers.**New Offers in This Issue.****AZALEAS.**W. W. Edgar Co., Waverley, Mass.
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For page see List of Advertisers.**HORICUM.**Hammond's P. & S. S. Works, Fishkill-on-Hudson, N. Y.
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For page see List of Advertisers.**PHOENIX ROEBELINI.**John Lewis Childs, Floral Park, N. Y.
For page see List of Advertisers.**PRIVET.**Valley Farms Nursery Co., Brookfield Centre, Mass.
For page see List of Advertisers.**SPECIMEN NURSERY STOCK.**Cottage Gardens Co., Queens, N. Y.
For page see List of Advertisers.**TREE TUBS; STRAW AND BURLAP MATS; SHEEP MANURE.**Wm. Elliott & Sons, 201 Fulton St., New York.
For page see List of Advertisers.**VIOLETS.**J. S. Smiley, West Roxbury, Mass.
For page see List of Advertisers.**WHOLESALE FLORISTS.**A. L. Young & Co., 54 W. 28th St., New York.
For page see List of Advertisers.**GREENHOUSE CONSTRUCTION**

(A paper read by J. B. Vobecky, Gardeners' and Florists' Club of Boston, October 16, 1906.)

Continued from page 89

Let us compare the cost of a house 100 feet long having angle iron plate, angle iron posts and cast iron foot pieces with the all wood house having wood plate and wood posts. The cost of the angle iron plate for both eaves together with angle iron posts and cast iron foot pieces spaced every six lights of glass, would be about \$120. The cost of the wood plate and cypress posts spaced every three lights of glass, which is the usual spacing for this construction, would be approximately \$60. This makes a difference of \$60 in the cost of one house over the other.

Assuming that you build a house 100 feet long with wood posts and plate, superstructure costing \$1500 complete, you will see that the additional cost of \$60 for iron plate and posts is 4 per cent. of the total cost of superstructure of the all wood house. The heating and benches would be the same in either case. Let us further assume that the all wood house would last 15 years. If you add the same percentage, 4 per cent., to the life of the all wood house, the house with iron plate and posts would have to last you only between seven and eight months longer than the all wood house. However, by investing \$60 more you lose the interest on this except as it is earned in the length of life of your building. If this \$60 otherwise invested should double itself in 15 years, you would have to figure 8 per cent. increase in the length of life of the iron and wood house over the all wood in order that your investment on either one may pay you equally well. This 8 per cent. added would mean that the iron and wood house would have to last about one year and three months longer than the all wood. The actual increase of length of life of house, because of the iron posts and plate, would be many times the one year and three months. If the house with iron plate and posts lasts twenty-two and one-half years, or half as long again as the all wood house, which it is reasonable to suppose on a basis of the figures just given, your cost per year for superstructure of house would be between \$69 and \$70 for the iron and wood construction against \$100 for the all wood, or a saving of nearly a third of your cost per year for superstructure of greenhouses by using iron plate and posts.

The design of a greenhouse is fully as important as the construction to be used, in order to cover the ground at the least expense, secure the best circulation of air, and heat to the best advantage. One can readily see that no matter what the width of the house, the expense of the side walls is the same, consequently the wider the house, providing one keeps within reasonable limits, the less the cost per square foot covered so far as superstructure goes. The circulation of air is much better in a wide house than in a narrow one, and the wide house is more easily heated in proportion to the surface covered than a narrow one. An example of this can be seen at Waban Conservatories, Natick, where in a house 21 feet wide with

about 14 feet high, the side walls are 1 1/4 inch pipe spaced 24 inches wide with ridge and gutter. There are twenty-four lights of glass. One can understand that the temperature would be even temperature in the wide house than in the narrow one.

The ridge and furrow houses, which in almost universal use through the west, are not so extensively built in New England. These houses present the advantage of being more economical than the detached house, because of the eliminating of several sides in a block of houses, but they have the disadvantage of casting more or less shade from the gutters, and more breakage of glass is caused by ice and snow than in the detached house. There seems to be a growing tendency, however, towards this construction.

The even span house is the cheapest and in a large majority of cases is the style built. Where houses run east and west, which is conceded by the majority of growers to be the most desirable way of locating them, several of the best growers have the roof on the north side of a steeper pitch than that on the south, both eaves being of the same height. This throws the ridge north of the center, and is done to avoid shade from the ridge on the rear bench or bed. In Boston on the twenty-second day of December the sun shines at an angle of 23 degrees, while on the twenty-second of June at 71 degrees. This makes a rise of the sun 8 degrees per month. With an even span house running east and west having the roof 32 degrees pitch, you will see that you will get no shade from the ridge on the rear bench until about the first of February, or until the sun gets higher than pitch of roof on the north side. If the north side of the house has a pitch of 45 degrees with the house running east and west, you will get no shade on the rear bench until about March 20th. The steeper the pitch of the roof the more surface in it and a proportionate increase in cost. It is a question of opinion as to whether the saving of shade on the north bench compensates for the additional cost. If the house is placed facing a few degrees to the east in order to obtain the morning sun more directly, the shade from the ridge on the north bench is varied. This facing of the house slightly to the east of south seems the ideal arrangement to secure the benefits of the morning sun. There is but little difference the year through between the amount of sunshine in the morning and that in the afternoon. Boston weather reports for five years show an average of twenty-four more hours' sunshine each year in the morning than in the afternoon.

Ordinarily the pitch of roof giving the best results is 32 degrees, or a rise of 7 1/2 inches to a foot. This, however, is varied occasionally for various reasons. In the even span ridge and furrow houses running east and west a pitch of about 27 degrees is often used with good results. With this arrangement the roof of one house shades the other less than would be the case if the pitch were steeper.

The spacing of 16x24 inch glass in the roof the 24 inch way is quite often done with very desirable results

POT MAKERS FOR 140 YEARS
A. H. HEWS & Co. Inc.
 CAMBRIDGE, MASS.
 FLORISTS
 OF EVERY KIND

as far as the amount of light in the house is concerned, but this is usually at the sacrifice of more or less glass, as the breakage is usually greater in the house constructed in this manner.

Continuous ventilation on both sides of the ridge gives the best results. If one places top ventilators one light apart there is more space for air to be admitted than if the ashes were continuous, but there is also more liability of a draught. Side ventilation, while desirable for violets or cool plants, is in decreasing demand for use in carnation growing.

The durability of the wood work in a greenhouse depends on the wood, the method and thoroughness of drying, the manner of applying the first coat of paint, the manner in which joints are made, and the thoroughness with which it is kept painted after erection. Red Gulf Cypress from the swampy Southern States stands the test of durability in greenhouse construction better than any other wood. This, however, must be free from sap and should be thoroughly air dried. To insure the best results the first coat of paint should be applied to the wood work by dipping rather than by painting it with a brush, for in the dipping process the wood absorbs several times the amount of oil that is retained in the grain by the other process. This gives a durability and a foundation for future coats of paint that cannot be secured in any other way. Milling and construction should be such that there will be as little chance of water lodging at joints as possible.

The purchasing of glass, putty and white lead for paint to be used after the priming coat, are matters to be as carefully looked into as any other part of the construction. If a poor grade of any of these is used they

may materially affect the dividends of the florists' business.

There is no class of building construction exposed to more trying conditions than a greenhouse, consequently there is every reason for making the structure as durable as possible consistent with a reasonable outlay. The majority of successful florists, if they have not previously built of a durable construction, are fast learning that a small additional cost for durable members in the construction pays them a very large percentage on their investment. I have seen many florists kept from deserved advancement because of the constant outlay for repairs on buildings erected in what at the time seemed an inexpensive manner.

GREENHOUSES BUILDING AND PROJECTED.

New.

- Brockton, Mass.—W. B. Bowen, one house.
- Elmsford, N. Y.—Scott Bros., houses 30x75, 26x100, 9x75.
- Indianapolis, Ind.—B. Hitz, eleven houses, each 16 x 125.
- Kirkwood, Mo.—W. J. Pilcher, range of houses.
- Wilmington, Mass.—George G. Phelps, one house.

Additions.

- Falmouth, Me.—Skillin Bros., one house 125 feet long.
- Livermore Falls, Me.—G. H. Fuller, one house.
- Newton Highlands, Mass.—A. H. Fewkes, one house

LIST OF PATENTS.

- 833,714 Fruit Clipper. David H. Goode, Sapulpa, Ind. Ter.
- 834,207. Fruit-Picker. Frederick Kaufmann, Burlington, Iowa.
- 833,883. Fruit-Picker's Bag George Guinther, Covina, Cal.
- 832,978. Land Leveler. Joseph J. Jensen, Goshen, Idaho, assignor of one-half to Chas. W. Mulhall, Idaho Falls, Idaho.

The Morehead Mfg. Co., of Detroit, Michigan, have recently sold some sixty to seventy Return Steam Traps for use in greenhouses throughout the country.

Among the florists that have recently installed Morehead Traps are: Wieter Brothers, Chicago, Ill.; Wm. Dittmann, New Castle, Ind.; D. V. Augsburgers Sons, Peoria, Ill.; Alfred Burton, Philadelphia, Pa.; Blackman Floral Co., Evansville, Ind.; Bentley-Coatsworth Co., Chicago, Ill.; Julius Niednagel, Evansville, Ind.; Newell Floral Co., Newell, W. Va.; Grohmann Brothers, Saginaw, Michigan. The Morehead Mfg. Co., advertises in HORTICULTURE.

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 THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
 STRONGEST AND MOST UNIFORM



PRICE 60¢ PER BOX OF 12 LONG SHEETS \$6.50 PER CASE OF 12 BOXES

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 PRICE \$1.50 PER PINT BOTTLE \$13.00 PER CASE OF 10 PINT BOTTLES.

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STANDARD FLOWER POTS
 Packed in small crates, easy to handle.

Price per crate	Price per crate	
1500 2 1/2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20	
1500 2 3/4 " " " 5.25	60 8 " " " 3.00	
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1000 3 " " " 5.00	48 9 in. pots in crate \$3.60	
800 3 1/2 " " " 5.80	24 11 " " " 4.80	
500 4 " " " 4.50	24 12 " " " 4.80	
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144 6 " " " 2.16	6 16 " " " 4.50	

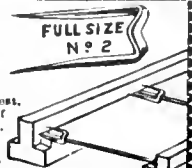
Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten per cent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

Standard Flower POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you mooney
W. H. ERNEST,
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Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

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 See the Point
PEERLESS
 Glazing Points are the best. No rights or lifts. Box of 1,000 points 75 cts. postpaid.



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SITUATION WANTED by single young man as assistant on private place; have considerable experience in greenhouses. Address W. McA., Box 312 Millbrook, N. Y.

SITUATION WANTED Private place preferred as head gardener. Married; two children; good reference. A. N., care R & J. Farquhar Co., Boston.

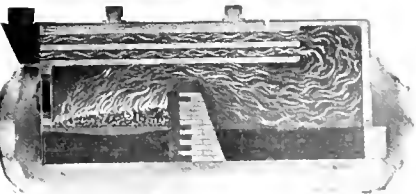
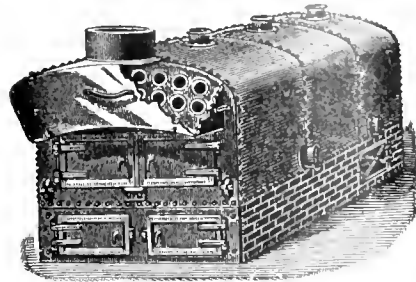
SITUATION WANTED by gardener of adequate experience, to take management of estate, with or without greenhouses. Address H. J., care HORTICULTURE, 11 Hamilton place, Boston.

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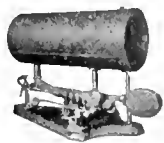
Boilers made of Steel Boiler Plate; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

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ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

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The **MOREHEAD TRAP**

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German and American

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ALL HEART SUN DRIED CYPRESS



GREENHOUSE MATERIAL

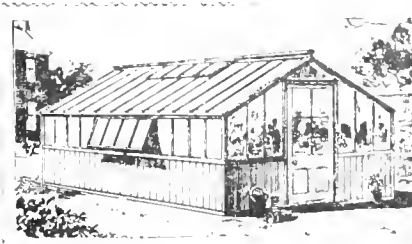
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HAVE IT, RIGHT FROM THE GULF OF MEXICO,
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**The Practical Side
Of a Greenhouse**

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Besides that they only cost one third the usual amount.

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Not the Firm

who makes good promises, but the one who makes their promises good. When we tell you our boilers will heat a certain house, they will.

If we recommend a certain construction as the one that will give you the best growing conditions—you'll get exactly those conditions

There's something in knowing a firm who knows, but there's a good deal more in dealing with them.

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GREENHOUSE DESIGNERS AND BUILDERS.

Manufacturers of Heating and Ventilating Apparatus.

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in the clearest story told the clearest way, believe that's the kind of story that wins—the story that tells in a straight away manner—without any slapping of backs—the strong, proven facts of an article.

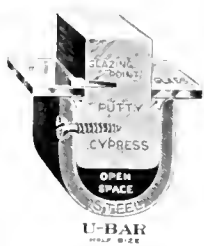
That's just what our iron frame circular does—a brief, meaty little affair about a big subject—send for it.

LORE & BURNHAM CO.

Greenhouse Designers and Manufacturers

113 BROADWAY, cor. 26th Street, N. Y.

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THE extreme lightness of construction, the wide glass, the absence of all heavy shading members, assures unusual productiveness. The curved eave line, the aluminum finish of the interior, the absolute simplicity of the construction produces a structure unmatched in attractiveness and

adaptability. U-Bar highest development of excelling as they do in simplicity, durability, attraction and low cost of maintenance. The last few phrases from the new the catalog we want you



greenhouses represent the greenhouse construction strength, lightness, simplicity, productiveness nance. The last few catalog's introduction—to send for. Pierson

U-Bar Company, **Designers and Builders U-Bar Greenhouses,** Metropolitan Building, Fourth Avenue and 23rd Street, New York.

HORTICULTURE

Vol. IV.

NOVEMBER 10, 1906

No. 19



NEPHROLEPIS PILSONI MULTIFIDA

Devoted to the
**FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,**
and
Kindred Interests

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NOV 10 1906

NOW READY Easter Lilies

Should be potted at once, as Easter is early this year
Japan stocks are now arriving, and are in first-class shape

JAPAN LONGIFLORUM.	9 to 10 in. bulbs, case of 200 bulbs, \$15.00.
" " "	Multiflorum, 7 to 9 in. bulbs, case of 300 bulbs, \$15.00.
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LILIUM CANDIDUM, selected bulbs,	\$5.00 per 100.

A Few of the Leading Narcissus

PAPER WHITE GRANDIFLORA, 13-15, c-m, fine bulbs, case of 1250 bulbs, \$11.25.	Per 1 000 \$12.00
DOUBLE VON SION, extra size mammoth double-nosed, or top-root,	20.00
PRINCEPS, early, single, fine bulbs	7 00
GOLDEN SPUR, the favorite single yellow	18.00
EMPRESS, a grand bicolor	20 00
BARRI CONSPICUUS,	8.00
POETICUS,	4.50
POETICUS ORNATUS.	7.00
WHITE ROMAN HYACINTHS, 13-15 "	28.00
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SPANISH IRIS, mixed	2.50

For other bulbs and for smaller quantities, see our Wholesale Price List, in which will be found a full assortment of all kinds of bulbs for winter and spring flowering. Send for list if you have not already received one.

F. R. PIERSON CO., Tarrytown-on-Hud. on, New York

Headquarters in Boston

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HARDY FERNS AND GALAX LEAVES

Best Ferns Galax, Green and Bronze

\$1.00 per 1,000

\$1.00 per 1,000

These prices will hold good until late spring

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A "BREAD AND BUTTER" CARNATION

Cutting one third more than Fair Maid now in the same house. Tested four years.

Debutante

is the name. You can't find a better carnation. Rooted Cuttings ready for delivery after January 1, 1907.

\$10.00 per 100. \$95.00 per 1000.

All Clean Stock. Order Now.

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"SECOND EDITION" 2000 Gloire de Lorraine Begonias

Even better than our last crop, and they were winners.

\$10 per 100. \$90 per 1000

Order now before cold weather.

Money refunded if not satisfactory.

In two inch pots, ready at once for threes.

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NIAGARA FALLS, N. Y.

SMILAX PLANTS

Strong bushy plants many times cut back, and ready for a show.

2-in. pots \$1.00 per 100; \$9.00 per 1000

3-in. pots 2 00 " " 18 00 " "

Seedlings from flats . . . 4.00 " "

Have grown smilax plants for the trade 18 years and never had finer stock. Samples 10 cents.

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We have the following stock in the finest condition to plant and now is the time to plant:

2 1/2 inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000

4 " " 2.50 " " 12 " 100 " 75 " 1000

It will pay you. Try it. Order at once.

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Rooted Cuttings in any quantity after Nov. 15, at moderate prices. Seed for price list.

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Mention Horticulture when you write

Adiantum Farleyense, finished plants

\$1.50 to \$2.00 each

Pandanus Veitchii,

50c \$1.00, \$1.50 and \$2.50 each

No better value to be had anywhere.

Boston Ferns, (choice specimens)

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A beautiful asparagus.

SUPERIOR TO ALL OTHERS in many respects.

Seedlings \$3.00 per 100, \$25.00 per 1000.

Transplanted Seedlings, \$5.00 per 100,

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SAMPLE 10c.

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THE RECORD BREAKER FERN—IT HAS NO COMPETITOR

Plants in 2 1/2 inch pots, \$25 per 100;

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Fine Specimens in 5-inch pots, \$1 each;

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4-inch, 22 1-2c.; 6-inch 40c.; Stock Plants, 60c. and 75c.

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Bostons, 4-inch, 12 1-2c.; Pans, \$1.00, \$1.50 and \$2.00.

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10,000 fine Ferns, low, stocky plants, Bostons, Pier-

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5,000 Vinca maj. var. Fine Stock, for 4-in., \$5 00

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5-in. pots 35c.

6-in. pots 50c.

7-in. pots 65c.

Immediate delivery. Cash with order.

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LILY OF THE VALLEY

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in original cases of five hundred pips, the best and strongest in the market, so that you can order a small quantity any time in the season whenever you need it.

We expect much demand for these small cases Lily of the Valley, and as we will have only 500 cases on hand with which to try this novelty, we advise you to send your order soon, stating at different dates on which you would want cases sent you. If you are not known to us please send cash with order and deduct 3%.

If you are not entirely satisfied you can return the Valley at our expense. Price per original case of 500 finest Lily of the Valley EXCELLENTA \$7.00.

Yours very truly,

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COLOR—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most Pinks, the brightest sun does not injure the color. **SIZE**—3 to 4 inches in diameter when established. **ODOR**—Pleasing, but not strong. **STEMS**—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. **HABIT, etc.**—A very quick, active grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. **PRODUCTIVENESS**—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. **Stock Limited Delivery January 5th to 10th and later.**

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RICHMOND ROSE 2 1/2 in.	\$11.00	\$100.00
KAISERIN " "	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
ENCHANTRESS	3.00	25.00
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DON'T Be Afraid To Invest In ROSE PINK ENCHANTRESS

It is both free and "lancy"—a sure money-maker.
Price \$7.00 per 100; \$60 per 1000
Delivery January and later. Write for Descriptive Circular.

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6000 of the choicest on hand at the following lowest cash prices:

Excelsa, 5 1/2 in. pots, 3-4 tiers, 10 to 14 in. high, 50 to 60 cts., 6 in. pots, 4-6 tiers, 16 to 22 in. high, \$.75, \$1.00 to \$1.25 each.
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Kentia Forsteriana and **Belmoreana**, 6-in., 30 to 40 in. high, 4 years old, \$1.00, \$1.25 to \$1.50; made up, \$.20 each.

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SPECIAL OFFER.

We have still a few thousand Azaleas to offer in leading varieties, early and late sorts, from \$25.00 per 100 up to \$50 each.

Also a fine lot of Palms in all sizes, such as Kentias, Arcas, Latanias, Phoenix and Cocos.

Also Pandanus Veitchii and utilis, Crotons, Dracaenas, Nepenthes, Aralias, Araucarias, Aspidistras, as well as a fine lot of Ferns suitable for dishes, in leading varieties, and Cibotium Schiedel from \$1.00 to \$100 each. Wholesale Price List on application.

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Importers and Exporters, Growers and Dealers,
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We Need Room

We offer good plants at reasonable prices.
DIGITALIS gloxiniaeflora.... 60c. per 100
VINCA, mixed, (rose white with red eye, pure white) 2 1/2 in. pots, \$2.00 per 100
PRIMULA obs. gr. fl., mixed, 2 1/2 in. 2.50 per 100

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Has the largest and finest collection of Dahlias in United States, with prices that will suit the trade. Send for price list.

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A Fine Assortment of

AZALEAS

from small sizes to specimen plants. Also

SMALL FERNS

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PALMS

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MARCH, APRIL, and MAY
VANDA COERULEA and **DENDROBIUM WARJANUM LOWII**
We quote prices per 100 plants
CYPRIPEDIUM CALLOSUM We shall have one shipment of 5,000 Plants.

For delivery June or July. We shall have the rare **VANDA SANDERIANA** and can quote prices per single plant or in quantity. **A. HELD, 11-19 William St., NEW YORK**

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Cattleya Dowiana, C. Gigas, C. Mossiae, C. Percivaliana, C. Spectabilissima, C. labriata, C. Eldorado, C. suberba, C. Leopoldii, and many others

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Arrived in splendid condition a fine importation of **C. Mossiae, C. speciosissima, C. Kramerianum, C. gigas, Mendellii, etc.**

Also a fine lot of established orchids on hand.

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ORCHIDS from PHILIPPINES

PHALÆNOPSIS SCHILLERIANA

We are ready to give quotations upon plants with 1 to 3 leaves, per 100 plants, or upon sound plants without leaves, per 100 plants, for immediate delivery f. o. b. Hamburg.

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ORCHIDS 28 Houses

Imported — Semi-established

Established and Fine Hybrids

Stove and Greenhouse Plants

Inspection invited Correspondence solicited

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Orchids for Beginners

12 Plants, 12 Varieties,
12 Dollars

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We grow about 1000 species and varieties and make a specialty of furnishing complete lists for Formal Garden and Border Planting

SHADE TREES, EVERGREENS, SHRUBS, ROSES

Over One Hundred Acres of Thrifty, Well Grown Stock. Visit Our Nurseries. We will gladly show you through. Complete General Catalogue and Price Lists on Application.

THE BAY STATE NURSERIES Windsor H. Wyman, Prop. North Abington, Mass.
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**Chrysanthemum
OCTOBER FROST**

The LARGEST and BEST Early WHITE Stock Scarce Buy Now

Are now Booking Orders for Strong Rooted Cuttings, Early Delivery. Until January 1st, 1907,

\$6.00 per 100

Other varieties quoted on application.

NATHAN SMITH & SON,
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Gilt Edged Stock, 3 to 8 feet

HERBACEOUS PERENNIALS

FIELD GROWN CLUMPS
WRITE FOR PRICES

Valley Farms Nursery Co.
BROOKFIELD CENTRE, CONN.

ARTHUR COWEE

GLADIOLUS SPECIALIST

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HAS UNDER CULTIVATION

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The Best Mixtures, Collections and Named Varieties in Existence.

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LADY GAY

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HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druscni. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

Catalogue mailed on request.

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ROSE SPECIALIST

WOODS HOLE, MASS.

DAHLIAS.

Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity, delivery to be made this fall or early spring.

DAVID HERBERT & SON,

Successors to L. K. Peacock, Inc.
ATCO, N. J.

TREE TUBS

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Epidendrum paniculatum



The accompanying photograph shows a handsome, free-flowering and very graceful species of epidendrum which is little known. This plant, which has just flowered in the collection of Dr. Shafer, was found by him while on a collecting trip in Mexico last spring. It was found near Cordoba, in company with a species of epidendrum which is also in flower at time of writing, resembling *E. umbellatum*, having yellowish-green flowers like *E. umbellatum*, but the inflorescence is a spike, not an umbel.

E. paniculatum also resembles *E. umbellatum* very much when not in flower. Its habitat is high altitudes in Venezuela and Peru, and the Doctor was very much surprised to find in that part of Mexico a plant with a dried up spike which he recognized as *E. paniculatum*. A diligent search failed to reveal any others. So far as I can learn this is the only plant of this species found in Mexico.

The flowers are faintly pink, almost white, differing in this respect from the type which is distinctly pink. Like most of the reed like species it is easy to grow. A warm greenhouse with plenty of atmospheric moisture when growing and plenty of light especially during the resting period will meet all demands. They should not be kept too wet at the roots, as the roots soon die if kept constantly moist. A thorough drying out occasionally seems to stimulate and keep them active.

James Hutchison

Useful Late Fall Flowers

Plants that bloom late in the season are especially valuable. One of the finest late yellow-flowered perennials that has done exceptionally well this season is *Helianthus Maximilian*. It is a large, stout, thrifty perennial that deserves to be much better known than it is at the present time. Anyone who has a place for tall growing perennials will do well to make a note of this handsome sunflower. It attains a height of from six to ten feet and its stems are well clothed with long, narrow, healthy leaves. The upper part of the stems is at this time bright and attractive with numerous good sized sulphur yellow flower heads. It likes an open position where it can get plenty of light and when rightly placed it is certainly a conspicuous object.

It is a luxuriant grower, therefore it should receive liberal treatment in the way of plant food. A good, deep soil and a liberal supply of cow manure suits its appetite. We have grown this plant for many years and in mild seasons always appreciated its beauty. About a week ago my attention was called to a fine group of plants in the Italian garden of Larz Anderson, at Brookline, Mass.

Another conspicuous plant at this time is *Aster tartaricus*, which comes from Northern Asia. This foreign aster can beat any of our native species for stoutness of stem and rankness of growth. It is blossoming now unusually well on account of the mild season. It has large, bright, purplish blue flowers, which are produced in large, open panicles at the extremities of the stems. It is unlike any of our native species. It is a very robust grower, increases rapidly, and is not over particular about the situation where it is placed. Plenty of moisture and good plant food are all that is necessary for its success. The flowers are good for cutting and are useful at this time.

Aster turbinellus is the gem of the genus for garden decoration. There is no native species or foreign hybrid that will compare with it in neatness, gracefulness or floriferousness. It grows about four feet high and thrives well in any mixed border of plants. It is a western species, but does well in the east. The pale blue flowers are produced very abundantly and are at this time very attractive. Unlike many of the native asters in cultivation this plant has no insect pests. It is always bright and clean.

In sheltered positions *Anemone Japonica* and its numerous varieties are still producing flowers which are useful for cutting. Here is a plant that the florists could handle admirably in pots in a cool house. Persons of refinement and taste are looking for something different from the stiff, unnatural chrysanthemum as it is grown now. The shape and gracefulness of the flowers of *Anemone Japonica* and its varieties are exceptionally pleasing and will look well, when cut, in almost any position, and are always sure to give satisfaction.

The time is not far distant when many of the flowers

which are grown for size will be replaced by smaller ones and by those which will show more of the nature habit and shape and form of the original flowers. Nature studies are and will play a strong hand in this. When a person begins to study and love nature very soon mere size of flowers does not count so much. Very often nature shows her finest work in the very smallest of flowers. And this reminds me that the present is the time when the ungraceful, long, broom handled, mop headed chrysanthemum makes its appearance. There is no plant that the gardener and florist has disfigured as much as the chrysanthemum. These flowers always remind me of a gross, over-fed man who is all out of shape and proportion. The man who will begin to grow flowers of a smaller size with more than one flower to a stem, giving attention to gracefulness and other qualities which will produce more pleasing effects, will very soon find plenty of customers for his goods.

Robert Salmon

British Horticulture

SOME NEW CHRYSANTHEMUMS.

Several useful novelties attracted attention at the National Chrysanthemum Society's October show at the Crystal Palace. Messrs. Lowe and Shawyer secured a first class certificate for Mrs. J. W. Scott. This is an ivory-white, full flowered variety, and in every way adapted for market work. It has already been on sale at Covent Garden market, where some first-class quality blooms have made 4 shillings a dozen. Mr. H. J. Jones has added to his long array of good things by introducing a new white decorative variety, Tapis de Neige. This was shown as a naturally-grown pot plant, and was about 2 ft. 6 in. in height. Hector, a new decorative variety with narrow florets of a soft pink shade, was shown by Mr. G. Bowness. Messrs. W. Wells & Co. showed Dorothy Goldsmith, a seedling from Mrs. F. W. Vallis. The florets are of considerable length, the tint being sulphur-yellow. The whole of the new varieties were granted first class certificates. The next show of the Society takes place in the first week in November, and this is usually the largest of the series arranged. There is every indication that the cult of the chrysanthemum is as popular as ever in this country. In addition to the three shows of the National Society in London minor exhibitions at this season take place in all parts of the provinces, where the utmost enthusiasm prevails among the amateur and professional growers.

AMERICAN GOOSEBERRY MILDEW.

At present English growers have been able to ward off an invasion of the American gooseberry mildew. In a paper recently read before the National Fruit Growers' Federation, Prof. Salmon, of the South Eastern Agricultural College, contended that unless immediate and resolute measures were taken the gooseberry plantations in England would be annually subject to a disease which will prove even more ruinous than big

bud has been to the English black currant crops. The disease, the Professor stated, occurred for the first time in Europe in Ireland in 1900. It is now widespread over Ireland in hundreds of gardens in no less than 14 counties. In many cases the gooseberry crop has been annually destroyed. On the Continent the disease has broken out in Russia, Norway, Sweden, Denmark, Germany and Austria-Hungary. Prof. Salmon suggested the following precautions: The temporary prohibition of the uncontrolled importation of gooseberry bushes; the eradication of the disease in Ireland by the employment of legislative measures similar to those now in force against certain contagious diseases of animals; the circulation of a leaflet fully describing the disease and warning gooseberry growers in England of the great danger incurred in obtaining any gooseberry bushes from Ireland.

W. J. Adsett,

Nerine

This is another elegant class of bulbous plants belonging to the order Amaryllidaceæ and also from the Cape, popularly known as the Guernsey lily. These plants begin to flower in September continuing well into late fall according to varietal trait. Some varieties are earlier flowered than others and, like the Belladonna lily, many of them flower before the foliage appears; they also make and complete their growth during the summer period as the Belladonna does; in fact their whole requirements are so similar that the treatment accorded one will suit the other, barring minor details. It must be borne in mind that the nerines are less robust in build and character than the Belladonna, and logically require less pot-room, as well as head-room. They are somewhat less docile to frequent repotting or root disturbance, good results being obtained from plants undisturbed for years. When a number of bulbs in one receptacle is preferable to one in a small pot, moderately deep pans are better than standard depth pots; this is of smaller consequence, however, where the stronger kinds are concerned, such as *Fothergillia*, *F. major*, *corusea major*, *Meadowbankii*, and others.

In large quantities it is possible to make an otherwise comparatively dull season in the greenhouses at least quite gay with these brilliant flowered plants. Dotted picturesquely amongst adiantum ferns they look extremely pretty; they are equally effective for cut flower decorations accompanied with such foliage or its equivalent in gracefulness, their brilliancy as well as quaintness of form suggesting at once something beyond the ordinary staple of flowering material.

Of late years the hybridizer has taken them in hand and has accomplished great strides so far as blending of forms, color and shading is concerned, but it is doubtful in my mind if any of the newer creations can come up to the older standbys, such as cited above, with the addition of the better forms of *N. sarniensis*, particularly as regards robustness and freedom of growth, as well as brilliancy of coloring. Nevertheless, variety is the spice that lends interest, let it be plants or any other goods, therefore we are in duty bound to recognize the efforts of the hybridizer.

H. D. Ingham

Extracts of Vacation Notes

"Cragside," Rothbury, England, fittingly illustrates the genius of its founder, the late Lord Armstrong. Both in the world famed Elswick gun shops, as in the planning of his private estate, there is revealed a mind of Titanic scale. It was a mighty conception as it was a great achievement to hew a garden and plant a forest on the solid rock. After the lapse of 43 years the spectacular effect is unique; the hillsides present now miles of fine coniferous trees, which give an impression of solemn grandeur; round the mansion, isolated specimens of *Abies concolor* and *Engelmannii glauca*, *Cupressus Lawsonianus*, *Wollingtonia gigantea* stand out boldly with distinction; the undergrowth of thousands of named varieties of rhododendrons, with azaleas, kalmias and pernettyias must present a glorious feast of color in season. American visitors should not miss "Cragside." Fruit trees under glass grown in large earthenware revolving pots were cropping heavily. These special pots are admirably fitted for large trees, especially in half-span houses; a large number may be speedily turned round to the light. Tomato Cascade as a trained pot plant is highly decorative; it is very free and the clusters of miniature fruits of a deep red color are useful for the garnishing of fruit dishes.

Mr. Norman Cookson of Wylam, Newcastle, has a very choice collection of orchids and is famous as the raiser of *Odontoglossum Cooksonii*, the first hybrid *odontoglossum* reared in England. His enthusiasm for hybrids is unabated and I was delighted with the quality and healthful appearance of thousands of *odontoglossums*, *calanths*, *cattleyas*, *dendrobiums*, *cyripediums* in all stages of development. Among the *dendrobiums* was a promising variegated plant of *D. virginale* with clear white markings on the leaves; it appears fixed and may be heard of as a novelty again. The method adopted here with the seed is to sow on a piece of canvas (1-8 inch mesh) which is filled with peat and moss inside and inserted in the form of a half globe in a pot; the seedlings become attached to the strands of the bagging and are thus kept from being submerged or washed away. The young seedlings when potted are placed on shelves close to the glass on a staging of rough ashes and shaded with tiffany. The whole collection gives evidence of first class treatment under the care of Mr. Chapman, who is a believer in leaf-mould and uses it extensively. Murray's patent orchid stand, invented here, is largely used. It is a safe, suitable and elegant stand for epiphytal orchids. The hardy *Cypripedium spectabile* has been repeatedly crossed with the indoor varieties for twenty years here but without success.

Edinburgh Botanical Gardens maintain their reputation for cleanliness, culture, classification, with due regard to effective arrangement. Unlike many other botanic gardens in England they are kept exclusively for plant growing and study and have not to seek the aid of side shows, fireworks, music and mountebanks to save them from financial ruin. *Gerbera Jamesonii*, the "Transvaal Daisy" with its scarlet flowers, was doing well in a sheltered corner outside; not perfectly hardy in Scotland, it needs a little protection in winter. *Phlox decussata* "Comtesse de Jarnac" is a new white variegated plant of great beauty and only deserves to be known to be freely planted for decorative effect in mixed borders. *Ipomoea Learii* made a fine show with flowers of a light purple color; it is a beautiful plant when allowed to hang in trails from the roof, and very floriferous. The nepenthes house, well

known for its *Ardisia*, was gay with many *Cassias* and other stove plants in masses. *Nevea*, Thiselton Dyer, a hybrid of *Dicksoniana* and *data*, makes a large and compact pitcher. *Hedera borealis*, the climbing dallas, bearing a profusion of bright scarlet flowers, suggested itself as a really capital greenhouse climbing plant of unusual color.

Edgar Elvire

Foreign Notes

Following the example set by the English and American national chrysanthemum societies in issuing an official catalogue, the French society ever on the alert to keep pace with the times, has now completed a catalogue for the use of its members of all chrysanthemums known to be cultivated in France, with raiser's names, dates and descriptions. This catalogue has been issued in instalments a portion being included in every monthly issue of the society's journal, "Le Chrysanthème." These can now be detached and bound up as a separate volume and placed on the shelves alongside the English and American publications of the same kind.

Charles Ballet, the eminent pomologist of Troyes, although advancing in years is one of the most indefatigable workers of France. His pen never ceases and his most recent addition to an already long list of literary productions is entitled "Chrysanthème et dahlia" in which the author relates in a pleasing and erudite manner the progress in Europe of these two popular flowers during the past century. It is well printed and contains illustrations of both flowers including the earliest introductions in both cases.

M. Alexis Callier, an eminent amateur horticulturist, has been elected president of the Royal Agricultural and Horticultural Society of Ghent in place of the late Comte Oswald Kerchove de Denterghem.

Among the subjects chosen for consideration at the annual exhibition and convention of the French National Chrysanthemum Society, November 7, 8 and 9, are the following: "Sterilization of Composts," "Use of Chrysanthemums for Decoration of Apartments," "Alphabetical Nomenclature and the Rules to be Adopted," "Sports, and the Means to Produce and Fix Them," "Insects and Diseases," "On the Means to be Employed in Developing a Taste for Chrysanthemum Culture," "Best Method of Packing." In connection with the last subject there will be a class for exhibits of packed flowers.

Everybody interested in horticulture will remember with regret the death of the Comte Kerchove de Denterghem. A movement is on foot to organize an International committee whose duty it will be to raise funds for the purpose of erecting a monument in memory of the deceased. The count's services to horticulture have been immense and are appreciated not only in his own country but the wide world over. There is every reason to hope, as was the case with the Vilmorin monument, that this appeal will meet with a universal support. As soon as the committee is formed the appeal will no doubt be made to horticulturists of every country to help in perpetuating the name of one whose devotion to horticulture was so fervent and so disinterested.

Chapman Payne

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A topic for club consideration

In reading the accounts of the meetings of the various florists' clubs and similar organizations we cannot but notice how rarely any attention is given to the subject of outdoor planting and general home adornment, although this is a topic of the greatest importance to the welfare of those whose interests these bodies are supposed to guard. It is to be observed that the civic improvement societies and allied organizations are having practically a monopoly of this great movement to awaken the people to a proper appreciation of verdure, trees and flowers about their homes and places of public resort. It would seem very proper that the florists' associations should take a hand in this agitation, for their members are beneficiaries in every step of advancement made.

The single-flowered chrysanthemum has a future

The interest shown towards the single and semi-double-flowered chrysanthemums wherever they have been shown this year seems to indicate that the public are ready to welcome these bright, effective flowers and give them a place among the most esteemed autumn favorites. The advanced type of large exhibition chrysanthemums is so far removed in every respect from the small loose-flowered class grown in sprays that, in their uses, there can be little rivalry or even useful comparison made between the two. Each has its own place, as distinct one from the other as any two flowers can be. We agree with Mr. Cameron that the grower who will give proper attention to the production and handling of these single-flowered chrysanthemums will have no difficulty in finding a remunerative market for them.

O'Mara vs. Burbank

Patrick O'Mara's views on the Burbank claims, as expressed in his pamphlet recently published are, like all of Mr. O'Mara's utterances, straight-forward and forcible, and logically presented. HORTICULTURE was among the first—if not the first to call attention

to the preposterous character of the stuff being published as emanating from or sanctioned by Mr. Burbank. It is probably true that much of the absurd matter which has invited the derision of the whole horticultural world had its origin in the imagination of over-zealous newspaper and magazine correspondents. Justly or unjustly, a propensity to extravagant boasting has been continually proclaimed as an American attribute, by a certain class of critics, and Mr. Burbank owed it to himself and to his fellow-horticulturists of America who want to see American horticulture respected abroad, to publicly repudiate all responsibility for the absurdities imputed to him. However, since he has preferred to remain silent, we should feel indebted to Mr. O'Mara for so plainly voicing what is, unquestionably, the overwhelming sentiment in the horticultural profession throughout this country.

Commercial florists should co-operate with the exhibitions

A promising augury is the tendency of the commercial florists of Boston towards active participation in the exhibitions of the Massachusetts Horticultural Society, which is set forth in our notes on the recent fall show. A generation ago the commercial florists did take a prominent part in the exhibitions of this society. Hovey & Co., Joseph Tailby, James Me-Tear, W. C. Strong, James Comley, A. McLaren, James O'Brien, James Cartwright, Edwin Sheppard—these are the names of some of the exhibitors whom we now recall as having brought honor to commercial floriculture and prestige to the exhibitions of the Massachusetts Horticultural Society thirty years ago. In the interim the peculiar limited specialization which has dominated the flower trade and the consequent decadence of interest in commercial plant growing has left the Society dependent mostly upon the gardeners of the private estates for exhibition material. A revival seems now to have set in, which, we trust, will be permanent. In no way can the best interests of commercial horticulture be more directly advanced than through our horticultural organizations and their public exhibitions.

The Single Purpose

in the reading columns of this journal is to give intelligent readers the kind of matter which will be of interest and benefit to them. This has been our policy from the start and explains why a new paper has so quickly won a reputation for good advertising results. Every concern has its own way of doing business.

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You'll Get There

AFTER ADJOURNMENT.

It must have been some weird influence of Halloween the night when "warlocks and witches" prowled about—that struck the cover pages of our last week's issue. The way of the proof-reader is hard.

James Durkin, an experimental horticulturist, exhibits a burdock plant covered with dahlia blossoms. He accomplished this result by grafting the dahlia sprouts on the burdock early in the spring.—Fairport (N. Y.) Mail.

James is a wonder. "Experimental horticulturist" sounds very modest and unassuming for such a prodigy. James had better watch out for O'Mara.

A chrysanthemum a foot in diameter relegates that bloom to the freak class. Something must have hit the flower to give it such a swelled head, but Lenox occasionally surprises outsiders by being downright sensational, and a flower show was a good time to do things.—Boston Traveler.

Lenox is liable to "do things" any day. She has recently sent some vegetable and chrysanthemum entries to Boston shows that set the Hub experts a guessing, all right.

CHRYSANTHEMUMS.

How proudly now you wear each gay rosette
As if to triumph o'er the lesser flowers
Which cheered the land in Summer's
pristine hours!
When Flora drew from rainbow-hued
palette
Her colors for the garden parapet
She strove to set upon her graceful
towers
The grandest product of her waxing
powers;
Thus, in your blossoms have her glories
met.
Now, ere the autumn bronzes fields and
hills,
You come to brighten Summer's waning
days;
You bring a romance from Japan's soft
rills
Where Nature gorgeous garniture dis-
plays;
You bear to us a rhapsody which thrills—
Sweet prelude to the glorious hymn of
praise!
Dexter Smith, in Boston Transcript.

THE CHRYSANTHEMUM, by Arthur Herrington. The most complete and practical book on the cultivation of the chrysanthemum published for Americans. Illustrated. Price 50c. postpaid. Horticulture Pub. Co., 11 Hamilton Place, Boston.

HEALTHY VIOLETS. Send us 25 cents for George Saltford's invaluable book on Violet Culture. The whole truth and nothing but the truth.

Order THE DAHLIA, by L. K. Peacock. Price 30c. postpaid, from Horticulture Pub. Co., 11 Hamilton Place, Boston.

A NEW NEPHROLEPIS.

(See frontispiece.)

Our frontispiece shows the latest addition to the rapidly lengthening list of sports of the "Boston fern." This is a very distinct break, as the picture shows, from the Tarrytown fern, *Nephrolepis Piersoni elegantissima*, and originated at the F. R. Pierson Co. greenhouses at Tarrytown, N. Y. It has been given the name, provisionally, of *Neph. Piersoni multiceps*. It was found in 1904 among a lot of ferns growing in the open ground. It is a very distinct and unique plant. In addition to the fantastic oddity of its fronds which is well shown in the picture, a distinctive feature of the plant is its dark green foliage—almost a blackish green, the younger growths



lighter. The fronds are very short and dense; hence in small sizes or large it makes equally desirable specimens. For table decoration and fern dishes it promises to become very valuable. Like the other varieties it does best in full sunlight. The trade will await with impatient interest the dissemination of this gem among ferns.

PERSONAL.

John Curvine has taken a position as assistant gardener at the East Mansfield greenhouses, Mass.

W. W. Thompson of West Hartford, Ct., was married on October 30 to Miss Rebekah B. Wheeler of North Stonington.

Dr. Henry, the noted botanical explorer, is visiting the Arnold Arboretum. He has just returned from a trip to the Pacific Coast.

WHOLESOME CHESTNUTS.

I believe that very often hydrangeas have been lifted from the field too early. But now that we are into the first week in November, when freezing may be expected, it is the safer plan to take up the plants and remove to some sheltered spot out doors from which, should the necessity present itself, their removal to safer quarters can be quickly accomplished. Hydrangeas in full flower are very desirable, especially at Easter or before. The time to pick out the plants decided upon as the most suitable for forcing for sale on different occasions is when they are taken up. For medium-sized plants for early wants, plants grown right along in pots may be the most satisfactory, but plants taken from the field and potted in good, rich soil will prove very satisfactory for various purposes. With the exception of one good watering after being potted, the plants will require but little water while at rest.

Field plants of large size intended for large tubs for out door decoration next summer will prove much more satisfactory if the tubbing process is done this fall, and when storing them away, it will be better if the wood is not tied up in any way, in order that the plants acquire proper shape.

Quite recently I saw a splendid lot of *nephrolepis*, of three varieties, in pans raised on pedestals in a greenhouse. These plants were at least one-third larger and, consequently, worth one-third more than the plants of the same varieties grown in the same size pots and pans on benches. The hint may prove useful for some grower who has not thought of it. Notwithstanding the recognized merit of most all the so-called improved varieties of *nephrolepis*, the old *N. Bostoniensis* is still a favorite with some people, and I do not hesitate in saying that when a plant is required to be placed on some high elevation, such as a pedestal, nothing can approach *Nephrolepis Bostoniensis* in imposing effect.

"Competition is the life of trade." In ending so abruptly the author only half-finished the job; he ought to have said that competition is the life of trade and the death of the incapable tradesman. A florist may eke out a living in one way or another, no matter how careless he is or how antiquated his methods are, if he has no opposition, but when a competitor enters the field who is up-to-date in cultural methods and in methods of doing business, something or somebody has to skidoo.

It is said that the Merchants' League of America has been organized by New York merchants to oppose any parcels-post legislation, and they are at work to create public sentiment against such legislation. The establishment of a parcels-post system, similar to that in England, would be directly in the interest of the farmers, and the sentiment among them is largely in favor of such legislation.

NEWS OF THE CLUBS AND SOCIETIES

THE NEW ENGLAND DAHLIA SOCIETY.

The first meeting of the new dahlia society was held at Horticultural Hall, Boston, on Friday evening, November 6, when permanent organization was effected, and officers chosen as follows: President, H. F. Burt, of Taunton; vice-president, Wm. F. Turner, New Bedford; secretary, Maurice Fuld, Boston; treasurer, N. Allen Lindsey, Marblehead; executive board—H. E. Johnson, Brockton; G. H. Walker, N. Dighton; H. W. Kendall, Newton; L. M. Bates, Brockton; W. D. Moon, Lynn.

The name chosen was the New England Dahlia Society. The aim will be to secure more uniformity in schedules at exhibitions and in judging dahlias; to establish a standard nomenclature, and to award recognition to new varieties of sterling merit. It was suggested that the Massachusetts Horticultural Society be asked to add a class of 50 dahlias to their schedule, and to substitute for the class of 18 a class of 24.

Valuable literature will be prepared by the best professional and amateur growers of the flower. The society starts with a membership of 95. Members from outside of New England will be accepted.

MONMOUTH HORTICULTURAL SOCIETY.

The show at Red Bank last week was the best in the history of this society. Two floors of the town hall were fully occupied by the exhibits. Awards were made as follows:

Twenty-five chrysanthemum blooms, William Turner first; thirty-six blooms, William Turner first, George Hale second; twelve blooms, George Hale first, Anton Bauer second; eighteen blooms, George Hale first, Nicholas Butterbach second; six yellows, pinks, crimsons, bronzes, white or any other six varieties, William Turner first, George Hale second; group of chrysanthemum plants, Anton Bauer first, Nicholas Butterbach second; three specimen bush plants, George Hale first, H. A. Kettel second; one bush plant, George Hale first, William Dowlen second; anemone, George Hale first, H. A. Kettel second.

Group of foliage plants, H. A. Kettel first, Nicholas Butterbach second; specimen palm, Nicholas Butterbach first, H. A. Kettel second; specimen foliage plant, William Turner first, George Hale second; six ferns, distinct varieties, Nicholas Butterbach first, George Hale second; American Beauty roses, W. W. Kennedy first, George Hale second; Bridesmaid, Nicholas Butterbach first, W. W. Kennedy second; vase any other variety, Nicholas Butterbach first, W. W. Kennedy second.

Carnations, prizes divided between William Turner, W. W. Kennedy, H. A. Kettel and M. Tierney.

Fruits, prizes divided between George R. Kuhn, George Hale, H. A. Kettel and W. W. Kennedy; greenhouse grapes, William Turner first, George Hale second.

The judges were James Blair, Chas. H. Totty and Peter Duff.

MORRIS COUNTY GARDENERS' AND FLORISTS' SOCIETY.

The eleventh annual flower show of the Morris County Gardeners' and Florists' Society, took place in Madison on the 1st and 2nd inst. It was a great success in many ways. Its arrangement from an artistic point of view was all that could be desired. The stage was decorated with palms, crotons, farleyense, fern, chrysanthemums and masses of Clerodendron fallax. Duckham's central group was a feature as usual. His new single chrysanthemums took the visitors by storm. The Farquhar silver cup for two vases of carnations was won by Wm. Duckham again and now is his for keeps. Robt. Craig and White Lawson brought him the prize.

The biggest thing in the show is always the groups of chrysanthemums and foliage plants. These were closely contested, there being four groups, J. Heeremans came out first, J. Downing, second, and H. B. Vyse, third. A specimen plant of Pandanus Sanderi from Mr. Duckham reached from floor to ceiling. R. Vince had specimens of Adiantum Farleyense in 12 in. pots. To duplicate his house of this fern, you would have to search two or three states. Lager & Hurrell staged a fine group of orchids. Two of them were awarded special certificate of merit, *Cattleya labiata* alba, and *Oncidium ornithorhynchum* album. C. H. Totty was in evidence with his new chrysanthemums. His white Wm. Duckham was very fine. Judge awarded certificates for the following: White, Wm. Duckham, Miss Miriam Hankey, Mrs. Henry Barnes, Mrs. Geo. Hunt, Mrs. A. T. Miller and A. L. Stevens.

A decorative display of new single chrysanthemums from Totty made a fine hit. J. N. May from Summit came up with carnations and pompons; a first in each case. Peter Duff was here as usual with his specimen chrysanthemums. A surprising thing was that the only double violet exhibit had to come from Syracuse. Among the single violets we had the heralded Gov. Herrick. In chrysanthemums Beatrice May covered herself with glory; nothing touched her in white, Morton F. Plant while fine, did not show up equal to last year. Winner carnation from F. R. Pierson Co., was fine and got a certificate. Roses were much better than anticipated. Richmond is the rose here, and she was a credit even to herself. The following are on the roll of honor for first prizes: R. Vince, J. Heeremans, J. Fraser, A. R. Kennedy, J. N. May, R. M. Schultz, L. M. Noe, L. A. Noe, Wm. Duckham, C. H. Totty, E. Reagan, J. T. Wagner, T. L. Moore, H. A. Neuner, Peter Duff, J. Downing, H. B. Vyse.

The judges were Fred. Heeremans, A. J. Loveless and A. H. Wingett all of Lenox, Mass. It took them three hours to judge, but they did it well and gave general satisfaction.

E. REAGAN.

THE "LADIES' AUXILIARY" OF THE S. A. F.

The following circular is being sent out to ladies directly connected or associated with the horticultural profession and the committee, fearing that some might be overlooked, have decided to give it wider circulation through the medium of the horticultural press.

My Dear Friend:

While at the S. A. F. Convention at Dayton, Ohio, a few ladies seeing so many with whom they were not acquainted, took it upon themselves to call a meeting on Friday, August 24th to consider a pin for identification. Mrs. W. J. Vesey of Fort Wayne, Ind., was chosen chairman, and four ladies to confer with her, Mrs. E. A. Scribner, Detroit, Miss Tillie Meinhardt, St. Louis, Mrs. John Sibson, Philadelphia, Mrs. Charles H. Maynard, Detroit, and it was voted to leave the selection of the pin with them.

On September the 11th another meeting was held at the home of the chairman, Mrs. W. J. Vesey, Fort Wayne, where the Auxiliary question was put under the same committee. Mrs. Scribner was appointed treasurer, Mrs. Maynard secretary. It was voted to call a meeting at Philadelphia next summer at the date of the S. A. F. In the meantime we wish to get as many ladies to join as Charter Members before January 1st, as possible. Fee for joining including pin \$3.00, annual dues thereafter \$1.00. First year to end January, 1908. We wish your hearty co-operation in forming a society of our own, where we can get to know each other socially and educationally. We have quite a list of members as a start, and prospects are good for a large society. Applications for membership and pin may be sent to the Secretary, Mrs. Charles H. Maynard, 219 Horton Ave., Detroit, Mich.

Very truly,

THE COMMITTEE.

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting and floral display of the New Jersey Floricultural Society was held on Nov. 2 at its rooms in Orange. Orchids and chrysanthemums were in force.

Lager & Hurrell, A. W. Bodwell, Edwin Thomas, Peter Duff, Wm. Reid, George Oakley, Arthur T. Caparn, Charles Ashmead, Max Schneider, D. Kindsgrab, and J. N. May were all represented by creditable exhibits of plants and flowers. A *Cattleya labiata* with nine flowers on the spike was among Mr. Thomas' contributions.

The fall show was discussed and all the preliminary details finished, with reports from all sources promising a successful exhibition on the 5th and 6th in East Orange. Donations of various prizes from Peter Henderson & Co., J. M. Thorburn & Co., Vaughan's Seed Store, F. W. Kelsey, Charles H. Totty and others were announced.

THE BOSTON EXHIBITION.

The big exhibition of the Massachusetts Horticultural Society, which closed on Sunday night, Nov. 4, was much more than a "chrysanthemum show"; in fact the chrysanthemum was but one of many factors in the make-up of an exhibition which, had it been confined mainly to chrysanthemums as in former years, could hardly have been called a success. But as a comprehensive fall display of horticultural products it certainly was a success and undoubtedly much more interesting to the public and inspiring to the craft than any exclusive display of chrysanthemum flowers and plants could possibly be. The showing of trained specimen plants—heretofore Boston's especial pride—was very weak. The plants from J. S. Bailey, although not as large as we have been accustomed to see, would have made very creditable specimens had they been given a week more in which to open their flowers. Those from W. H. Elliott were well-grown little commercial plants in small pots. The competition for the Gane Memorial prizes was also very weak. E. J. Mitton receiving second award.

In the chrysanthemum cut flower section quality ruled high and very uniform and the display was of moderate extent. In the big vase class there was only one exhibitor, E. A. Clark. It was a great pyramid of enormous blooms, and W. A. Riggs, the gardener, was given a first-class certificate for superior arrangement. R. W. Paterson's table of 25 blooms in 25 varieties, Thos. Proctor, gardener, was as fine a set as ever seen here, the Australian varieties being conspicuous. Peter B. Robb and Wm. Whitman, winners of second and third in this section, each put up excellent displays. In the classes for vases of ten blooms of one variety, color specified, the winning varieties, in order as given, were as follows: pink, Mrs. Morton F. Plant, Wm. Duckham, Dr. Enguehard; red, John Shrimpton; white, Merza, Nellie Pockett, Beatrice May; yellow, Cheltoni, Col. Appleton; "any other color," Donald McLeod, Harrison Dick. In these classes and the twelves and sixes Mrs. C. C. Converse and Mrs. Lester Leland won four firsts and three seconds, Wm. Whitman four firsts and two seconds, A. F. Whitin two firsts and one second, Geo. F. Falyan two firsts and one second, Peter B. Robb two firsts, S. A. Borden and Jas. Nicol each two seconds. The sensational feature of the chrysanthemum section was a table of new single varieties shown as naturally grown sprays by Miss E. J. Clark, gardener John Ash. It was awarded a silver medal and the attention it attracted was generally construed as indicating the trend of popular fancy here. Louis Dupuy was given honorable mention for a new bronze-flowered chrysanthemum exhibited without name and Charles H. Totty received a first-class certificate for white sport from Mr. Duckham.

So much for the chrysanthemums. The Hunnewell premium for hardy

coniferous trees was won by R. & J. Farquhar & Co. The big group of foliage and flowering plants, excepting day for the show in general does not have effect. Wm. Whitman, Edward MacMulkin and Sidney Hoffman won first, second, and third prizes respectively with enormous groups, of varied character. Orchid displays were also very rich, the winners in the plant competition being Mrs. J. L. Gardner and Edward MacMulkin and in the vase classes J. E. Rothwell and Edward MacMulkin. Julius Roehrs Co. and Lager & Hurrell also staged large orchid groups, not for competition. Honorable mention was given Peter B. Robb for seedling *Cattleya Louise* and E. O. Orpet for seedling *Cattleya and kelias*.

In the other plant classes special awards were made as follows: honorable mention to F. R. Pierson Co., for sport from "Tarrytown fern" (see frontispiece of this paper), F. W. Fletcher Co., for *Ficus altissima*, Julius Roehrs Co., for *Tillandsia Duvalliana* and *Begonia Rex*. The Marquis, and John Nilan for seedling *impatiens*.

The carnation growers were well represented, Backer & Co., winning first for crimson with Harry Fenn, dark pink with Pink Patten, light pink with Rose Pink Enchantress, scarlet with Robert Craig, yellow with Sunrise, variegated with Mrs. Patten. Philip Dexter won first in its class with Enchantress and Peter Fisher first in whites with White Perfection. F. R. Pierson Co., showed a superb vase of fifty Winsor.

Dahlias were shown in large numbers and remarkable quality (all outdoor grown) for so late a date by N. Allen Lindsay, Geo. H. Walker and W. C. Winter. Special awards in the cut flower section were as follows: H. A. Jahn honorable mention for carnations Jahn's White and Jahn's Crimson; Wm. Sim ditto for new violet, sport from Princess of Wales, and Cobbett School, Lynn, ditto for display of pompon chrysanthemums. Roses were shown by Waban Rose Conservatories and W. H. Elliott, the varieties being American Beauty, Wellesley, and Richmond. Mr. Elliott's Richmonds were simply superb. James Crawshaw made an attractive exhibit of his new decorative asparagus.

The fruit displays were excellent, especially as to apples and pears. Vegetables made a glorious showing. E. L. Lewis was awarded a silver medal for commercial grown celery and W. Heustis & Son a bronze medal for the same. Remarkable collections of vegetables arranged for effect were made by E. L. Lewis, Ed. Parker, W. W. Rawson and Mrs. Alice Warburton, to whom the prizes were awarded in order named.

On the second day the dinner table decorations were the centre of interest. This is an innovation in the Mass. Horticultural Society shows and the three very liberal prizes brought out eight competitors. Society ladies served as judges. Sidney Hoffman was first with a centre piece of cattleyas and ferns, J. J. Casey second with violets and Houghton & Clark third with cypripedlums and oncidiums. G. A. Severy & Co., were highly commended for a centre piece of fruits.

THE PHILADELPHIA SHOW.

Philadelphia has been unfortunate this year in not being the center of interest in the horticultural world. Chicago, New York, Boston have all claimed special attention, and Philadelphia has, for once had to take a back seat. Nevertheless we have had a very good show, thanks to the earnest endeavors of the private gardeners in the vicinity. The kings of the horticultural world have deserted us this year and the progress of the world will no doubt emanate from Chicago and other centers. In cut flowers we have had as fine an exhibition as ever, and if not quite so large it is made up for in the keenness of the competition. Wm. Kleinheinz was one of the conspicuous figures in the prize winning in this class and covered himself with glory generally. In the specimen plant section Joseph Hurley was first and the rest nowhere. Mr. Hurley has been edging up to this point for several years and now he has topped the rise. The show was particularly rich in foliage plants and ferns. The *Gleichenias* from the Drexel estate were exceptionally fine. The vegetable and fruit exhibit was rather under the average. In the trade section the conspicuous feature was the Michell exhibit, engineered by Philip Phreud, who showed himself as resourceful as ever and over topped all the other trade displays. Dreer's exhibit was also very good.

Features of the show in a hurried look around before the opening and judging, (Tuesday), are noted as follows:

Mr. Long's *gleichenia* in the rotunda, 12 feet in diameter and 8 feet high.

The bay trees of Messrs. Dreer in the entrance; pyramids and standards in great variety and all sizes.

The two specimens of *Ficus pandura* from Crag's in front of the new pillars. These stood 5 feet high, perfect and well finished. A great distinction to the show.

The stairways were handsomely banked with vases of the finest cut blooms of chrysanthemums, the cream of the season's showing being centered in this display. Chamberlain, Appleton, Duckham, Merza, Pockett, Enguehard, Eaton, Hatton and Beech were conspicuous among the choicer varieties. On the middle landing of the stairway were Tom Holland's two shields of pink chrysanthemums, a fine example of good training and culture and a feature of the show, although there was no prize. At the top of the stairway E. G. Hill & Co. exhibited a new one for the prize in

not disseminated class, a delicate pink, seven inches across, a lovely thing of the incurved type, rather a flat flower, but quite full to center. Messrs. Hill entered this flower for the C. S. A. committee's judgment also. The name is Mlle. E. Chabanne. Messrs. Hill also sent a fine six of the R. E. Foerderer variety which, if it didn't take first, looked to have a good show for it. Sam Batchelor and Gordon Smirl were among the keen competitors of Mr. Hurley in the specimen plant class, as were also Jno. McCleary, William Kleinheinz and Jno. T. Whitaker. Tom Holland came in strong on a good six whites. Sam Batchelor came out first in class 14 among a large number of entries; 12 plants, 12 varieties in 6-in. pots.

Charles Hicky, gardener to J. Willis Martin, took first in class 30, and various other awards. A. G. Williams, gardener for Samuel T. Bodine, made his debut as an exhibitor and came out very successfully. William Robertson was the proud winner of the big prize for twelve blooms of Mrs. W. B. Chamberlain. Jno. Thatcher proved himself once more a king among foliage plant growers. His six well developed specimens deservedly got first. Jno. Hobson was in evidence with his great specialty, the croton, and also made some of them sit up and take notice in other departments. Thomas Logan was as usual invincible in the specimen fern section.

The vegetable and fruit display was slimmer than usual.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The display of flowers, vegetables and fruit at the second annual exhibition of this society was indeed fine. Chrysanthemums are somewhat late this year, so that many of the blooms had to be staged before being thoroughly finished. For the best group, 50 sq. ft., Percy Chubb (A. Mackenzie, gardener) was first; G. R. Sheldon (H. F. Meyer, gardener) second. In the cut bloom section A. Mackenzie captured five firsts, also the Pierson silver cup for best 12 Glenview. Other prize winners were: T. Harrison, M. Shiff (W. Eccles, gardener), G. H. Morgan (T. Page, gardener), J. R. Maxwell (S. J. Trepess, gardener), L. J. Busby (H. Matz, gardener), G. R. Sheldon. Paul Dana (J. F. Johnston, gardener) won first for 25 blooms arranged for effect, and best collection of pompons. The silver cup for best 50 carnations was taken by W. Eccles. C. F. Bertanzel won the society's prize for the largest and best collection of carnations by commercial growers. The Troy silver cup for best collection of outdoor roses went to R. J. Preston (L. S. Forbes, gardener); the cup for indoor roses to T. Harrison. Felix Hense, Boulou & Son, J. Hennessey were among the exhibitors of violets; the Stump & Walter prize was awarded to A. Mackenzie.

Rickards Bros.' special for best table of foliage plants was won by T. Harrison, first; S. Trepess, second.

The Pratt estate (Jas. Holloway, gardener) staged a beautiful stand of fruit. There was keen competition in the vegetable section.

J. F. JOHNSTON.

BEST METHOD OF MARKETING THE PRODUCT OF THE WHOLESALE PLANT AND FLOWER GROWERS.

The judges appointed by President Kasting of the S. A. F. to make the awards on the essays on the above topic submitted at the Dayton convention, have reported. First award goes to J. Austin Shaw, second to Charles Ingram, and third to M. B. Faxon.

First Prize Essay. Author, J. Austin Shaw.

This subject presents for our consideration two distinct sections of the wholesale florist business. First, "The best method of marketing the product of the wholesale plant growers." To market the plants profitably, they must be well known, for, to "market" means to sell quickly and advantageously. Therefore the selling of surplus or inferior plants by any plan is hardly worthy of the name "marketing," in its highest sense. Granted then that the plants to be offered are perfect, it will, I think, be conceded that the best method adopted up to the present is to dispose of them through the agency of the commercial representative. Advertising in the trade papers constantly, and intelligently, is of great advantage. Personal letters to one's customers are very effective; established reputation and a long record of square dealing are of vast importance; but the gentlemanly, persistent, magnetic "drummer" is irresistible. His supreme value is demonstrated by the fact that every successful grower of this country and Europe, in every department of the plant industry, has his accredited representative, whose yearly, or monthly, or weekly visits keep his firm constantly in touch with its clientele.

Much might be said here of the man required for this important work, of his personality, his habits, his character. All these have to do with his efficiency. And more might be said of the firm he represents—its ability to produce the perfect product—its careful filling of orders received—its generous recognition of patronage—its quick correction of errors—its tact—its promptness—its indisputable honesty. But all these must be conceded, to arrive at the fulfillment of our contention—that the best method of marketing the product of the wholesale plant grower is through the agency of the commercial traveler.

Here, too, it would not be out of place, the fact being conceded, to consider what manner of man the salesman should be, that he may be best competent to market the goods his grower has to offer.

But this subject has been fully cov-

ered in the essays of 1905 on the "Ideal Salesman."

Secondly: "The marketing of the product of the wholesale flower grower," is an entirely different proposition. Here we have to consider a perishable commodity, and at once we must admit the necessity of rapid disposal as of paramount importance. Ice-box preservation is uncertain, restricted and preservative but for a day. Shipments from the grower direct to the retailer have seldom proven profitable, because of the retailers' frequent inability to dispose of all the product daily of a greenhouse plant of any dimensions, or from the limit of the supply. Personal soliciting and distribution by the grower leaves him subject to the needs or whims of the retailer, and prices fluctuate downward as the day advances, and the handling of the flowers deteriorates their quality. I think there is but one opinion possible as to the best method of disposing of, or marketing, cut flowers, and that is through the medium of the wholesale florist.

For over a quarter of a century the advantages of this system, now so universally popular, have been thoroughly established. Here, centralization of the market facilities for purchase is at once apparent, and a depot is established for shipments, accessible at any hour of the day or night.

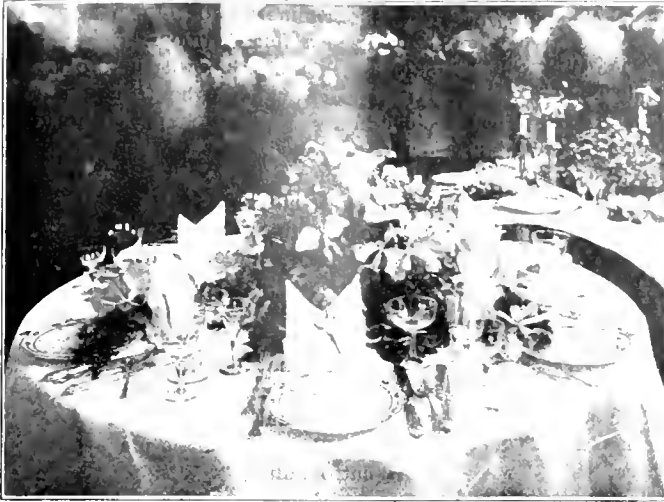
The grower, therefore, having assured himself of the honesty and ability, as a salesman, of his wholesale agent, can add—as prosperity makes it wise—house after house to his base of supply, conscious that there will never come a time when a fair recompense will not reward him for every flower that reaches the market.

The wholesaler is always in touch with his customers by telephone, and is ready, early and late, to wait upon the demands of the great retail public. It is to his interest to maintain honest values, to dispose of his stock as rapidly as he can to the mutual advantage of his grower and himself, and to make such returns as have actually been received, promptly and honestly.

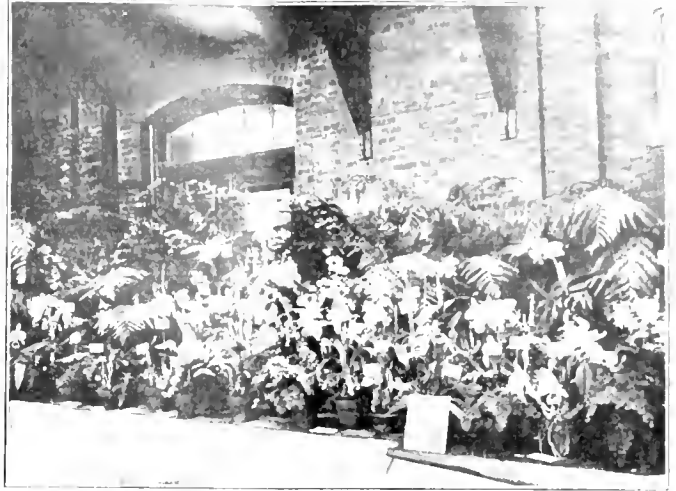
The subject confines one to the finding of "the best method" only. Having demonstrated this what more can be added, except to advise the grower to exercise business acumen in the selection of his representative, and, having decided upon the best wholesaler, to trust him implicitly, give him not only confidence, but perfect goods for disposal, and until a better method is discovered, or a better wholesaler

(Continued on Page 504.)

Views of the Boston Exhibition



First Prize dinner table by Sidney Hoffman



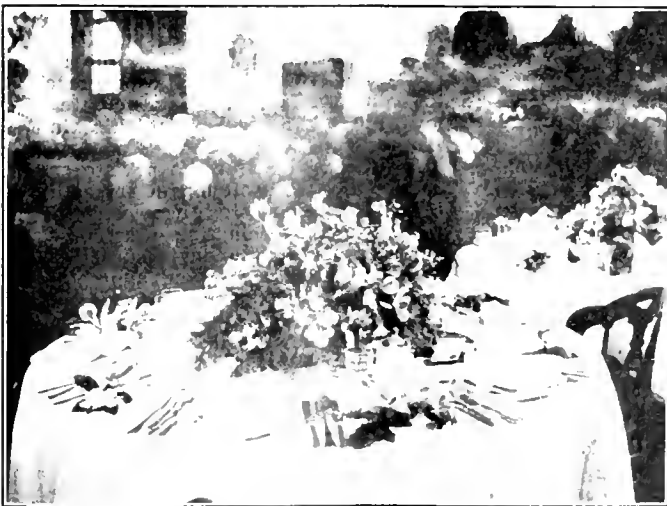
Orchid exhibit of Julius Roehrs Co



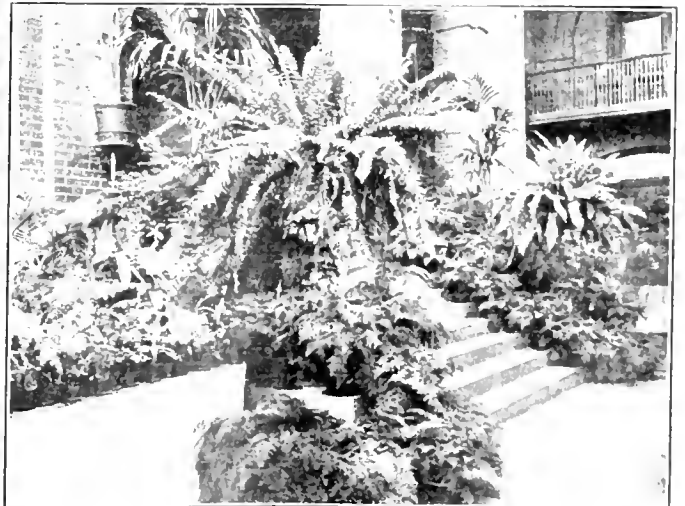
Second Prize dinner table by The Rosary



Table of single flowered Chrysanthemums by Miss E. J. Clark, gardener, John Ash.



Third Prize dinner table by Houghton & Clark.



Stairway to the loggia.

FIRST PRIZE ESSAY.

(Continued from Page 502)

discovered, stand by both loyally, ship the entire product of his greenhouses daily, avoiding absolutely the dishonesty of "pickled flowers," and so build up the reputation of flowers and method on such a basis, that success and permanent prosperity may be assured. It having been admitted then that the grower may best dispose of his product through the wholesaler, there remains only for our consideration the best methods whereby the wholesaler may complete the expectations of the grower to his profit and satisfaction.

The wholesaler must establish a reputation for honesty. He must have the facilities for handling carefully any quantity of stock that reaches him, and be prepared for any possible emergency. His ice-box must be capacious, his room for display ample, his employees reliable, his personal attention to every detail persistent. His reputation must be unsullied, his returns prompt and absolutely correct, his shipping conveniences abundant. He must not only be ready to meet the local demand, but by judicious advertising, induce the confidence of the best trade in adjacent cities and towns. He must create a demand for out-of-town shipments by personal solicitation and correspondence. He must, as rapidly as possible, in his own city, secure orders for a regular daily allotment, to be assorted and delivered promptly on arrival, and must hold this trade by every legitimate method, making the satisfaction of these regular customers his first consideration. Granting all this, the complete "marketing" of the product of the wholesale flower grower is a foregone conclusion, and in no other way can the certainty of complete disposal be assured!

AMERICAN CARNATION SOCIETY.
Carnation Registered.

By Stevenson Bros., Govanstown, Md. "Debutante." A cross between Mrs. T. W. Lawson and Queen Louise. The color is a soft pink similar to Joost, but brighter, very fragrant and most prolific. A very early variety and a grand keeper. The flowers are borne on stiff, yet graceful stems and have a calyx that allows the full expansion of the flower without bursting.

ALBERT M. HERR,
Lancaster, Pa.

Have You Read the Advertisements
this Week?

ADDRESS OF PRESIDENT DUCKHAM BEFORE THE CHRYSANTHEMUM SOCIETY OF AMERICA AT CHICAGO.

Gentlemen and Fellow Members of the Chrysanthemum Society of America:

It affords me great pleasure to greet you and bid you welcome. When last you assembled in annual session I had gone across the ocean and had to leave a written word to represent me in my absence. It is now my pleasure and privilege to meet with you, to see your interest and join in your enthusiasm, to counsel with you as to the future, and to take record of the past, with its trials and triumphs.

I must begin my address by a very sincere expression of thanks for the honor you have done me in a re-election to the office of president. I wish I might count myself worthy of this endorsement. There are perhaps few pleasures in life superior to that of a kind recognition from the men who work with one in the business of life. I fear that I must reckon to friendliness, kindness and generosity rather than to judgment the honors you have been pleased to confer on me.

And now when I come to such message as I have to deliver let me begin by expressing my sincere pleasure that we are meeting in this magnificent city, abounding in vigorous, developing life. I deem it truly an ideal city for our exhibition and meeting. Nowhere else in America, I may truly say, are there such quantities of material on which to draw. We who hail from the eastern part of the country are amazed at the strides and progress made in horticulture in and about Chicago; and no little of this success is due the members of the Horticultural Society of Chicago. We are happy, thrice happy, to meet in such an atmosphere of success. It is good to be among people who are doing things, who are going ahead by leaps and bounds. But great as is your progress, I must own it is not great enough in some ways. The ultimate basis, in America at least, of all great progress must be the commercial basis; you have that basis magnificently laid.

Four years have passed since we last met in Chicago, and the commercial progress hereabout since then is perfectly staggering. I had an opportunity of viewing some of it at the time of the St. Louis World's Fair, for I passed through your great city at that time. There seems no end to your development, to the founding of new firms and to the enlargement of old ones.

But I am not quite sure that the development of a higher culture of

the chrysanthemum has quite kept step with the commercial development. We have seen a fine development in culture undoubtedly, but whether it is as large as it ought to be is not quite clear in my mind. We must do better, or in a real sense we are not doing all that might be done.

However that may be, it is perfectly certain that the growth of the society in membership is disappointing. I suggested in my message last year that personal solicitation was the surest method of increasing membership. I am still of that opinion. There are far too many growers, both amateur and professional, who are not in this society. We need a little more judicious "buttonholing." Will you let me make another suggestion? Would it not be possible for us to impose on our admirable committees at Chicago, Cincinnati, Philadelphia, New York and Boston the slight additional burden of increasing our membership list? I hope you will not consider the suggestion indelicate.

Well, we are here, and perhaps our chief business after all is to take an account of stock and ask where we stand in relation to the real progress—the development of newer varieties. The newer ones are obviously a great improvement on their predecessors. We are going forward, every one of you will concede; especially does this apply to exhibition varieties. But we are still too much dependent upon Europe and Australia. Furthermore, it seems to me that private gardeners are too much dependent on their commercial friends, and are indifferent, more or less, where or how the newer varieties are obtained. Yet each year how eagerly some of us are looking for striking novelties over those of the preceding year.

Our progress in America, as far as new varieties is concerned, is almost wholly made by these great houses who have laid such broad and deep commercial foundations. Such men as Smith, Hill, May, and, in the last few years, Totty, have all done much to raise the standard and create a love for the flower we at this time represent.

It is fully time for the private gardeners to have a bit bigger try at hybridizing and raising new varieties. It is the most fascinating of all works, and once entered upon is sure to be an increasing delight and a practical enterprise. Somebody may smile and point at me and ask me to take my own medicine. Well, perhaps I may have to try. Meantime I commend and urge this upon others who may have better opportunities in some ways than are mine.

In the message sent you last year I ventured to say that perhaps during my absence I might see something worthy of comment this year. I had the great pleasure of attending the Edinburgh (Scotland) show, and I

must confess I was completely overwhelmed by it, both by the magnificent blooms shown and the attendance. There were over 70,000 admissions in three days. Think of that, and be humble! Nay, think of that and lay plans day and night to rouse our people to a similar interest! What could we accomplish if we had a constituency like that?

Perhaps I may say a word about the varieties that reigned supreme at Edinburgh. They were Elsie Fulton, Mrs. Barelay, J. A. Silsbury, Mrs. T. W. Vallis. Are you not surprised? The finest flower I have even seen was a Mrs. T. W. Vallis. You know how poor a performer it is here. I saw also the variety Lady Conyers, which, as you know, is small and hard under our conditions, and after several unsuccessful trials many have discarded it. But this same variety at Edinburgh was wonderful in size, delicate in color and with long trailing petals. It seems impossible, but it is true, that the Scotch climate appears to



THE LATE J. L. DILLON

suit the flower, for many varieties that with us are usually dull and unattractive were brilliant, showing at once that climatic conditions play no small or unimportant part in the culture of the chrysanthemum.

One more word and I shall cease to tax your patience. The Germans and French have both gone into the growing of the chrysanthemum with great energy, especially the latter; and many fine varieties can be traced to the handiwork of the French hybridist. Therefore, it behooves us to be up and doing. Nay, I would say it is our duty to see to it that we raise such varieties as we can give to the world.

That our society is very grateful to the Horticultural Society of Chicago for the courteous and generous treatment received you will all agree, and I feel sure I voice the sentiments of all members of the National Society in expressing our thanks and appreciation for the privilege and honor of meeting here.

I thank you, gentlemen, for your kind attention and I wish you increasing success.

Obituary

Lewis Ullrich.

We present herewith a portrait of the late Lewis Ullrich, whose death was briefly recorded in last week's issue. Mr. Ullrich was a native of Germany, being brought to this country in infancy by his parents, who settled in Monroeville, Ohio, and ten years later moved to Tiffin, where the young man had a public school education followed by a full course at Heidelberg University. In 1874 he built a small greenhouse, at first for private purposes, he being an ardent lover of flowers, but later launched into commercial floriculture,



THE LATE LEWIS ULLRICH

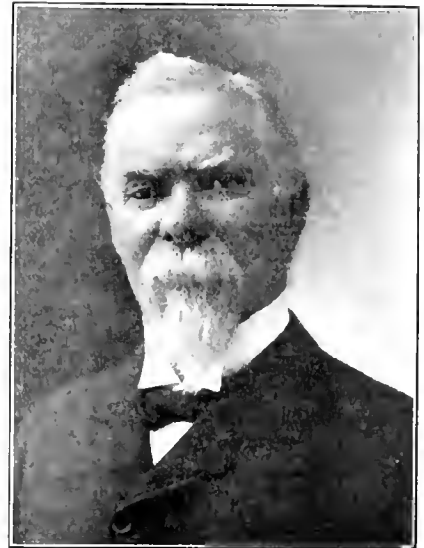
and at the time of his death conducted a large and thriving establishment.

The large place which Mr. Ullrich held in the hearts of his townspeople was shown in the throngs that attended his funeral—hundreds more than the church could hold. He leaves four sons and four daughters to mourn the loss of a devoted father.

William Doogue.

After a service of twenty-eight years as superintendent of public grounds in Boston, William Doogue has passed away, at the age of 78. His death on November 3 was not unexpected, for he had been failing rapidly ever since an attack of pneumonia last spring. For over forty years no man has been, floriculturally, more in the public eye than William Doogue. When a boy of twelve years, the youngest of eight children, he was brought from his

native place in Ireland to his home in Shelton, Conn., where he attended a high school and then identified his inheritance in the garden work by entering the employ of George Affleck & Co., an extensive nursery firm of Hartford. In 1860 he came to Boston and entered the employ of Charles Copeland in the charge of the greenhouses in Melrose and the flower department in the Boston establishment of that famous restaurateur. Eight years later he opened business for himself in Floral place, Boston, and for some fifteen years was one of the most successful florists of the city. In 1878 he succeeded John Galvin as superintendent of Boston Common and public grounds, since which time he has held the position through 13 consecutive mayoralty administrations of all po-



THE LATE WILLIAM DOOGUE

litical creeds, a rare example of striking diplomacy as well as extraordinary popularity.

Whatever may have been the estimate of Mr. Doogue's methods of decorative planting as displayed year after year in the Public Garden of Boston, his unbounded enthusiasm and ardent love for everything floral was never questioned. They were his "being's end and aim," and socially he was just what we should expect such a man to be—genial, considerate, kindly.

He leaves two sons, Luke J. and Wm. J., and three daughters, one of whom is the wife of Timothy McCarthy, superintendent of Swan Point Cemetery, Providence.

Mrs. August Millang died at her home in Bayside, Long Island, N. Y., on Monday, November 5.

A snowstorm that visited Rochester, N. Y., and vicinity on Oct. 31 did great damage among the nurseries, parks and cemeteries.

SPECIAL OFFER

of SURPLUS, HARDY PERENNIALS, VINES, and EVERGREENS, etc. All field grown and specially useful for growing on in pots, and planting out, or for Spring Sales. We can make prompt shipment before the ground freezes. TERMS NET, or less 5 per cent. for cash with order. More complete list on application.

	Doz.	100.		Doz.	100.		Doz.	100.
<i>Agrostis</i> Latif. Invs.	\$1.00	\$7.50	GRASSES, ORNAMENTAL.	\$.50	\$3.50	PHYSOSTEGIA. Plumbeo		
" " Molis.	1.00	7.50	<i>Phalaris Arund. Varteg.</i>	.50	3.50	<i>Larpetiae.</i>	.75	\$5.00
<i>Achillea</i> Mill. Roseum. 1st Year	.35	2.50	<i>Harpallium Semipennum.</i>	.50	3.50	<i>Polygonatum Majus.</i>	.85	6.50
Leafy roots for potting.	2.00	15.00	HELENIUM. Autumnale, Super-	.75	5.00	<i>Polygonum Cuspidatum.</i>	.50	3.50
<i>Actea Japonica</i> , strong divisions.	2.00	15.00	<i>lum.</i> and Hoopesii.			PRIMULA. Cortusoides in 12		
<i>Agrostemma</i> Cor. Alba.	.50	3.50	HELIANTHUS. Decapetalis.			named varieties, 3-in. P. G.,	.85	6.50
" " Bicolor.	.50	3.50	<i>Doronicoides, Davidiana, Lac-</i>			<i>Vulgaris, Veris Superba,</i> and		
<i>Alyssum Rostratum.</i>	.75	5.00	<i>tilionus, Molis Grandiflorus,</i>	.50	3.50	<i>Elatior.</i>	.75	5.00
<i>Anemone Whirlwind.</i> F. G.	.75	5.00	<i>H. S. Moon, La Perle, Rev.</i>	.75	5.00	<i>Acaulis Frimbriata</i> Lge,	1.00	7.50
<i>Anthemus</i> Pall. da.	.75	5.00	<i>Wooley Dodd,</i>			<i>Prunella Webbiana.</i>	.75	5.00
" " Kewayii.	.50	3.50	<i>Heliopsis, Fitcheriana, and</i>	.50	3.50	PARETHRUM. Roseum single,	.75	5.00
AQUILEGIAS. <i>Chrysantha,</i>			<i>Scaber Major.</i>			<i>Roseum, Double,</i>		
<i>Nivea Grandiflora, Skimava,</i>	.75	5.00	HEMEROCALLIS. Apricot,			in six named varieties,	1.25	10.00
<i>Vulgaris, Alba, and Alba Plena,</i>			<i>Dimmortii, Disheekia, Flava,</i>			RUDBECKIA. Autumn Glory,		
<i>Cocroga Hybrida, Haydelgen-</i>	1.00	7.50	<i>Kwanso, and Fl. Pl. Midden-</i>	.50	3.50	<i>Pulchra, Newmanii, Subto-</i>	.50	3.50
<i>sis.</i>	1.00	7.50	<i>dorffii.</i>			<i>mentosa and Golden Glow,</i>	.75	5.00
<i>Hebea, pot grown.</i>	1.00	7.50	<i>Gold Dust, Orange Man, Sov-</i>	.75	5.00	<i>Purpurea.</i>	.75	5.00
<i>Aralis Alpina.</i>	.50	3.50	<i>ezda, Thunbergii,</i>			SALVIA. Argentina,	.75	5.00
" " Compacta.	.60	4.50	<i>Aranthica Major, Florham</i>	1.25	10.00	" <i>Officinalis (Mammoth</i>		
<i>Artemesia Abrotanum.</i>	.75	5.00	<i>(Tina) Luteola, Anranthica,</i>	.75	5.00	<i>Sage,</i>	.50	3.50
<i>Asclepias Tuberosa.</i>	.50	3.50	<i>Bonchera, Sanguinea, and</i>	.75	5.00	<i>Santolina, Incana.</i>	.50	3.50
ASTERS (<i>Michaelmas Daisies</i>).			<i>Brizoides.</i>			SEDUM. Acre, Maxima, Maxi-	.50	3.50
<i>Amothystines, Anellus, Ele-</i>			<i>Hibiscus, Moschentos, and</i>	.50	3.00	<i>mowii, Spectabile.</i>		
<i>gans, Belgica, Ericoides, Clo-</i>			IRIS. Germanica, Blues, Yel-			SEMPERVIUM. Aennilatum,	.75	5.00
<i>laevis, Gallope, Melpomene,</i>			<i>lows, and Whites, Colors separ-</i>	.40	2.50	<i>Pyrenaleum Tectorum,</i>	.75	5.00
<i>Novae Angliae, Polyphyllus,</i>	.50	3.50	<i>rate,</i>	.30	2.00	<i>Sidalea Murrayana,</i>	.75	5.00
<i>Snowflake, Trimeris, Versi-</i>			All colors, \$15.00 M.,			<i>Solidago, Canadense, Odora,</i>	.50	3.50
<i>color, Wm. Bowman, Strong</i>			<i>Kaempferi, Mixed, double and</i>	.50	3.50	and <i>Rigida.</i>		
<i>Divisions.</i>	.50	3.50	<i>single, \$25.00 M.,</i>	1.00	7.50	SPIRAEAS. <i>Astilboides Flori-</i>		
<i>Aster Alpinus, Speciosus, Com-</i>	.50	3.50	<i>Lathyrus Latifolius.</i>			<i>bunda, Compacta Multiflora,</i>	.50	3.50
<i>paeta, Alba, Superbus.</i>	.75	5.00	LINUM. Perenne Mixed, and			<i>Japonica, Superba,</i>		
<i>Baptisia Anstralis.</i>	.50	3.50	<i>Flayum,</i>	.75	5.00	<i>Arunca, Chimensis, Filipen-</i>	.75	5.00
<i>Bellis Perennis, 3 inch. P.,</i>	.50	3.50	<i>Lindelora Spectabile.</i>	.85	6.50	<i>Fl. Pl. Palmata, and Ele-</i>	.75	5.00
<i>Bocconia Cordata, \$25.00 M.</i>	.30	3.00	<i>Lobelia Cardinalis.</i>	.50	3.50	<i>gans, Plmaria Aur. Venusta,</i>	.75	5.00
<i>Boltonia Astoroides.</i>	.50	3.50	" <i>Queen Victoria, 3 inch P.</i>	1.00	7.50	<i>Stable Latifolius.</i>	.75	5.00
<i>Callimorpha Ineisa.</i>	.85	5.00	<i>Lupinus, Perennis and Poly-</i>	.75	5.00	<i>Stachys Lanata.</i>	.50	3.50
<i>Callirhoe Involucrata.</i>	.75	5.00	<i>phyllus.</i>			<i>Stokesia Cyanea.</i>	.50	3.50
CAMPANELA. <i>Alliarifolia</i>	.75	5.00	LYCHNIS. Alpina, Chalcedo-			<i>Sweet William (See Dianthus)</i>	.85	6.50
<i>Punctata, Ranunculoides.</i>	.75	5.00	<i>ica and Carne, Haugema.</i>	.50	3.50	<i>Tarragon, (Gstragon),</i>		
<i>Catanache Corulea.</i>	.75	5.00	<i>Viscaria Splendens.</i>	.75	5.00	<i>Thalictrum Aquilegifolium, and</i>	.60	4.50
CENTAUREA. <i>Alba & Rosea,</i>	.75	5.00	<i>Verspetina, Alba Pl.</i>	1.00	7.50	THYMUS. <i>Montana Cocclnea,</i>	.75	5.00
<i>Orientalis.</i>	.75	5.00	<i>Lysimachia Clethroides.</i>	.35	2.50	and <i>Serphyllum Aurea,</i>		
<i>Cephalata Tartarica.</i>	.50	3.50	" <i>Nummularia.</i>	.35	2.50	<i>Tradesanthis, Virginea, Alba,</i>	.75	5.00
<i>Chelone, Lycell & Oh. Alba.</i>	.50	3.50	<i>Lythrum Roseum.</i>	.75	5.00	and <i>Rubra.</i>	.50	3.50
CHRYSANTHEMUM. <i>Maxi-</i>	2.50		<i>Megasia, Cordifolia and Ligu-</i>	.75	5.00	<i>Trillium Grandiflorum.</i>	.50	3.50
<i>mina, David & King Edward.</i>	.75	5.00	<i>lita.</i>	.75	5.00	<i>Tricyrtis Hirta.</i>	.75	5.00
<i>Modorum Snowball.</i>	.85	6.50	<i>Mertensia, Virginea.</i>	.85	6.50	TRITOMA. <i>May Queen, Nobilis,</i>		
<i>Camillefuga Ruemosa.</i>	.85	6.50	<i>Monard, Didyma, Splendens,</i>	.50	3.50	<i>R. C. Affourtit, Rufus, Tuckii,</i>	1.25	8.00
" <i>Cordifolia.</i>	2.00	15.00	and <i>Cambridge Scarlet.</i>	.50	3.50	<i>Pfizeri.</i>	.75	5.00
" <i>Simplex.</i>	.50	3.50	<i>Morina Longifolia.</i>	.75	5.00	<i>Trollius, in variety.</i>	.75	5.00
<i>Clematis Davidiana.</i>	.50	3.50	<i>Myosotis Palmstris, Semp.</i>	.75	5.00	<i>Valerian. Cocclnea and Cocc.</i>	.75	5.00
<i>Coreopsis Lanceolata.</i>	.50	3.50	<i>Nepeta, Glechoma Hed. Var.</i>	.35	2.50	VERONICA. <i>Cercacoides, In-</i>		
" <i>Tennifolia.</i>	1.00	7.50	<i>roots for potting.</i>			<i>cana, Rupestris, Repens, Spli-</i>	.60	4.50
DELPHINIUM. <i>Chimensis, Al-</i>	.60	4.50	OENOTHERA. <i>Fraseri, Mea-</i>	.35	2.50	<i>Longifolia, Subsessilis,</i>	1.25	10.00
<i>bum, and Coeruleum.</i>	.85	6.50	<i>dowii, Youngii.</i>	.85	6.50	<i>Vinca Minor, Clumps.</i>	.50	3.00
DIANTHUS. <i>Barbatus (Sweet</i>	.50	3.50	<i>Mossouriensis.</i>	.50	3.50	VIOLA. <i>La France,</i>	1.00	7.50
<i>William, \$25.00 per M., sep-</i>			<i>Pachysandra Terminalis.</i>			<i>Corinata, Lutea, and</i>	.50	3.50
<i>coloris.</i>			PAEONIES. (Strong Divisions)			<i>Alba.</i>		
<i>Cybele, Argentus, Copifolius,</i>	.50	3.50	<i>Officinalis, Rubra.</i>	.85	6.50	HARDY VINES. <i>English Ivies,</i>		
<i>Atroranguineus, Large BW'g</i>			<i>Officinalis, Rosea.</i>	1.00	7.50	<i>4-in. Pots, extra strong,</i>	1.25	10.00
<i>mixed.</i>	.50	3.50	" <i>Mutabilis, Alba.</i>	1.25	10.00	<i>Field grown, 3-4 feet.</i>	.75	6.00
<i>Plumarius, Scoticus, Semp-</i>	.50	3.50	<i>Chimensis, mixed Pluk.</i>	.85	6.50	<i>Field grown, 2nd grade, 2-3</i>	.50	4.00
<i>ferens, Superbus.</i>	1.00	7.50	" <i>Duke of Wellin-</i>			<i>feet.</i>		
<i>Folcata.</i>			<i>ton, Festiva Alba, Grand:</i>			<i>Bignonia Grandiflora, extra</i>	2.50	
DIGITALIS. <i>Grandiflora Mon-</i>	.60	4.50	<i>Rosea, Rubens, Sapho, Queen</i>	1.25	10.00	<i>strong.</i>		
<i>strosa, Glox, Rosea, and Alba,</i>			<i>Victoria.</i>			<i>Bignonia Radicans.</i>	1.00	
<i>Maculata Iveryana.</i>	.75	5.00	<i>Japan Single Flowering, in</i>	1.60	12.00	CRIMSON RAMBLERS (Amer-		
<i>Dipsocephalum Australeum.</i>	.75	5.00	<i>ten varieties.</i>			<i>ican Growth.)</i>		
<i>Erigeron, Glaucus, and Specios.</i>	.75	5.00	PENSTEMON. <i>Barbatus Tor-</i>	.50	3.50	<i>4-6 feet, many branches.</i>	2.00	15.00
<i>Eryngium Plum.</i>	.75	5.00	<i>reyii, Grandiflora, Ovarius, Dif-</i>	.50	3.50	<i>3-4 " " " "</i>	1.75	12.00
" <i>Maritimum.</i>	1.00	7.50	<i>fusus Pubescens.</i>	.50	3.50	<i>2-3 " " " "</i>	1.00	7.50
<i>Eupatorium Acanthoides.</i>	.50	3.50	<i>Petasites, Jap. Gig.</i>	1.00	7.50	<i>2 " " " "</i>	.50	3.00
<i>Euphorbia Corolata, \$25 M.</i>	.50	3.50	PHLOX. <i>Ameica,</i>	.50	3.50	<i>White, Pink and Yellow, 1-6</i>		
FUNKIAS. <i>Albo Marginata.</i>	.50	3.50	" <i>Subulata, Rosa and</i>			<i>feet, same price.</i>		
<i>Aurea Variegata, \$25 M.</i>	.60	4.50	<i>Lilacina, \$25.00 M.</i>	.50	3.50	EVERGREENS. <i>Box Trees, Pyramids,</i>		
<i>Undulata Media Peta.</i>	.85	6.50	<i>Decussata, Champps</i>			<i>the Specimens well furnished, 4-5 feet,</i>		
<i>Subcordata, Grand.</i>	.75	5.00	<i>Elysee, Rebfreuz, Her-</i>			<i>\$5.00 to \$5.00 each.</i>		
<i>Gallium Moliga.</i>	.75	5.00	<i>olme, Irene, Thebalde</i>			CONIFERS. <i>Special prices on application</i>		
GALLIARIA. <i>Grandiflora,</i>	.50	3.50	<i>Jean Barth, Cyclon,</i>	.50	3.50	<i>for specimen trees, from 2 to 6 feet high,</i>		
<i>Compacta and Maxima.</i>	1.00	7.50	<i>Mrs. E. E. Jenkins,</i>			<i>in the following varieties: Abies Nobilis</i>		
<i>Geranium Balkanicum.</i>	.50	3.50	<i>Jeanne D'Arc, Indian</i>	.40	3.00	<i>Glauc. A. Nordmanniana, A. Vitch I.</i>		
<i>Genm Arcosagulinum.</i>	.75	5.00	<i>Chief, Miss Lingard.</i>	.75	5.00	<i>Picea Alcockiana, P. Orientalis, P. Pun-</i>		
<i>Gillenia Trifoliata.</i>	.75	5.00	<i>Physalis Fanchetti.</i>			<i>glauc. Glauc. Koster, Scindopytis Verti-</i>		
GAPSOPHILA. <i>Acutifolia.</i>	.75	5.00	PHYSOSTEGIA. <i>Virginea, Al-</i>	.50	3.50	<i>cillata, Pinnis Cembra, Retinospora</i>		
<i>Coastobles, Montrosa repens.</i>			<i>ba and Coerulea.</i>			<i>Obtusa Gracilis, Thuya Standishii, Thuyop-</i>		
GRASSES. <i>ORNAMENTAL.</i>			<i>Platyodon, Jap. Album and</i>	.75	5.00	<i>sis, Dolabrata.</i>		
<i>Eulalia Jap. Variegata, ad</i>	.50	3.50	<i>Coeruleum.</i>			<i>Some of our Specialties: Perennia's, Phlox,</i>		
<i>Gracillima.</i>	.85	6.50				<i>Paeonies, Iris, Dahlias, Roses, Conifers</i>		
<i>Elymus Glaucus.</i>								
<i>Gyncrium Argentum (Pampas)</i>	2.50							

PALISADES NURSERIES

Growers for the Trade

SPARKILL, NEW YORK.

CALIFORNIA NOTES.

Wholesalers report the demand for California dried fruits was never so large as it is at the present time, and all agree that it is not a question of selling, but of filling orders on hand. There is very little stock of any kind to be bought for immediate shipment. Difficulty is not only experienced in getting goods shipped on account of the great scarcity of cars, but the same cause is delaying the distributing of orders from central shipping points in the East. Altogether the trade is laboring under greater difficulties than it has ever experienced at this time of the year.

Botanical experts at the University of California are engaged in classifying and cataloging the Brandegee collection, the grand botanical gift recently noted in HORTICULTURE. This herbarium gift places in possession of the university the most complete collection of Pacific Coast flora now extant. Already several men from other institutions have signified their intention of visiting the collection, because of the splendid equipment now in possession of the university. Every precaution will be taken to protect this gift from fire and other danger. Until such time as a permanent botanical building is provided it will be housed in the Hearst Mining Building, which is nearing completion on the university campus, and which is fireproof. Here it will be combined with the present university herbarium, which already contains about 125,000 sheets of specimens. The united collections will comprise nearly 250,000 specimens, the majority of which are mounted in permanent form.

Chrysanthemum Stock Plants

Heavy Plants of C. Testout and Jeanne Nonin, 8c. each; Mde. Montmort, Opah, A. Byron, H. Parr, L. Filkins, B. Wells, Dr. Euguehart, M. Bailey, Mrs. T. W. Pockett, Lord Hopetown, Chilos, 5c. each; Monrovia and Cheltoui, 6c. each

W. WYMAN, - Swampscott, Mass.

As Lease of Land Expires Next Spring Stock Must be Sold at Sacrifice Prices.

All first quality, bushy.

	Per 1000
Berberis Thunbergii, 18 to 24 in.	\$40.00
" " " 24 to 30 in.	50.00
Deutzia Gracilis, 12 to 18 in.	35.00
Ligustrum Irota, 18 to 24 in.	28.00
" " " 2 to 3 ft.	35.00
Spiraea Van Poultei, 3 1/2 to 4 ft.	45.00
Kerrlia Japonica fl. pl., 3 ft.	45.00
Rhodotypos Kerrioides, 2 to 3 ft.	50.00
Viburnum Tomentosum, 18 to 24 in.	50.00
" " " 2 1/2 to 3 ft.	75.00
" " " 3 1/2 to 4 ft.	100.00

And 60,000 other shrubs.

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Our stock this season is handsomer than ever. Anybody in want of a quantity will do well to inspect our plants before placing their order. We have every popular American variety as follows:—

	Diam.	Per Doz.	Per 100
Schryveriana	8-10 in	\$3.50	\$25.00
Nlobe	10-12 "	4.50	35.00
Paul Weber	12-14 "	6.00	45.00
Prof. Wolters	14-15 "	7.50	60.00
Raphael	15-16 "	9.00	75.00
Simon Gardner	16-18 "	12.00	90.00
Versaeneana	18-20 "	25.00	200.00
Louis de Kerchove	20-24 "	36.00	300.00
Mad. Van der Cruyssen			
Deutsche Perle			
Le Floore			
John Lewelyn			
Mad Cam Van Langenhove			
Mad. Jos. Versaene			
Paul de Schryver			
Memorie de L'Van Houitte			
Sigismund Rucker			

Order now and save heavy express charges; impossible to ship by freight in cold weather.

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We have an immense stock in all sizes, from 15 inches to 15 feet. Our \$1.00, \$2.00, \$3.00, \$4.00 and \$5.00 sizes in single and made-up plants, are particularly handsome. We want the reader to see the stock we offer. Order by mail, or call and select the plants you like the most.

ARAUCARIA EXCELSA. Fine plants, at 50c, 75c, \$1.00, \$1.50, \$2.00, \$2.50 and \$3.00 each. These are all perfect and good value for the money.

ASPIDISTRA, Green and Variegated. In all sizes, \$1.00, \$2.00 and \$3.00 each.

We are pleased at all times to receive visitors at our Nurseries. We have one hundred acres planted with the most interesting Nursery stock in the country. See wholesale catalogue.

BOXWOOD PYRAMIDAL

These plants are conceded to be the finest ever imported to this country. (Exceptional value.)

2 feet	\$.75 each	4 feet	\$3.00 each
2 1-2 feet	1.00 each	4 1-2 feet	4.00 each
3 feet	1.50 each	5 feet	5.00 each
3 1-2 feet	2.00 each	6 feet	6.00 each

BUSH BOXWOOD, for window boxes, 25c, 35c, and 50c each.

BAY TREES. We have a large number in all sizes. Ask for prices.

BOBBINK & ATKINS Nurserymen and Florists RUTHERFORD, N. J.

Wm. J. Dingee, of the Golden Gate Park Commission, took a popular stand this week in opposition to further desecration of the city parks by the shack-building department of the combination of politicians known as the fire refugees' relief committee, who have at their disposal the millions of dollars contributed by Eastern Florists' and Growers' Association, and thousands of other philanthropic Eastern agencies.

THE CHRYSANTHEMUM, by Arthur Herrington. The most complete and practical book on the cultivation of the chrysanthemum published for Americans. Illustrated. Price 50c. postpaid. Horticulture Pub. Co., 11 Hamilton Place, Boston.

HEALTHY VIOLETS. Send us 25 cents for George Saltford's invaluable book on Violet Culture. The whole truth and nothing but the truth.

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BABY RAMBLERS IN FULL BLOSSOM

Fine established plants in 5-inch pots, \$45.00 per 100; \$400.00 per 1000.

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Extra fine plants for Xmas and Easter flowering, in the leading varieties. Plants 12-inch, \$35.00; 14 inch, \$45.00; 15-16 inch, \$65.00.

Prices on all other plants, Bulbs, Roots, etc., cheerfully given by

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7-inch POT PLANTS.	\$4.00	\$35.00	\$300.00
4-inch "	1.00	9.00	80.00

WELL ROOTED SEEDLINGS

	100	1000	10,000
4 to 5-inch HIGH, . . .	\$5.00	\$40.00	\$300.00

JOHN LEWIS CHILDS Floral Park, - - - New York

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

HABERMEHL SHOW.

One of the features of Philadelphia's chrysanthemum show week was the Habermehl exhibit at the Bellevue-Stratford. Not only was there a grand display of the giant cut blooms of such varieties as Appleton and Duckham, but the bouquet art from the stiff paper-collared article of 1850 down to the loose, artistically ribboned production of the present day was effectively displayed. The table decorations, basket work, screen designs and other staples of the florists' art were traced by striking designs, not only showing what good work is, but giving striking examples of bad taste and labeling the latter as such. No better trade getter from a retail point of view has ever been devised than this as far as our recollection goes, and the Messrs. Habermehl have scored a distinct success, and will compel the attention and admiration of even their most strenuous rivals. G. C. W.

FLORISTS' CLUB OF PHILADELPHIA.

The newly elected president, Samuel S. Pennock, made his maiden effort at presiding and proved himself a good one. Business was pushed through with dispatch and an early adjournment achieved for the devotees of the flower show. Robert Craig gave an account of his recent visit to the Jamestown Exposition. Resolutions of sympathy were passed on J. L. Dillon and Fred Krebs, recently deceased members.

CLUB AND SOCIETY NOTES.

A special meeting of the Executive Board of the S. A. F. is being held at Chicago this week.

The annual chrysanthemum show of the American Institute was held at New York on Nov. 7, 8 and 9.

The Gardeners' Club of Baltimore, Md., will hold their chrysanthemum show on Nov. 13-16 in the new Florists' Exchange building, corner of Franklin and St. Paul streets.

The annual chrysanthemum show of the Santa Barbara Horticultural Society, Cal., was held on Oct. 17 and 18, with a fine display and a large representation of the gardeners in that locality among the exhibitors.

No man who grows stock for sale can call himself "progressive" if he omits to advertise it. If you grow for retail exclusively, advertise in your local papers. If you grow for wholesale trade, or if you have a surplus above your retail needs, get in line with those who are to be found in HORTICULTURE'S advertising columns. You will find it distinctly to your advantage and will have no trouble to back up the claim that you are "progressive." HORTICULTURE is essentially the medium of the "progressive" horticulturist, and this is one reason why it is the best advertising medium in its class.

BAY SHORE FLOWER SHOW.

The fifth annual exhibition of the United Bayshore Horticultural Societies was opened November 2 in the Carleton Opera House, and the display of flowers, fruits and vegetables was considered the best in the history of the show. The organization numbers among its patrons and exhibitors many prominent members of the South Shore summer colony, who own country homes in Babylon and Islip.

Chrysanthemums were considered one of the star features of the show. Honors in the chrysanthemum classes were divided between S. T. Peters, Louis Bossert, Colonel Alfred Wagstaff, Eugene P. Strong and Edwin Thorne. Mr. Peters was the heaviest winner of the day, carrying off thirty-six premiums. A noticeable exhibit from the Peters place was a rare collection of stove and hothouse plants, gracefully arranged on the stage of the opera house.

There was a fine display of carnations, and Messrs. H. G. Timmerman and Edwin Thorne were winners of the greater number of awards. Fruits and vegetables were shown in excellent form.

THE TARRYTOWN EXHIBITION.

In addition to our notes on this excellent show, in our issue of last week, we record that the silver medal for the best new decorated plant not yet in commerce was awarded to Scott Bros., for an improved form of *Dracaena Godseffiana*, the white variegation being much more pronounced than in the type. The Pierson Bar Company's special prize for table of decorative plants was won by David McFarlane. The silver cup offered by Mrs. Stuyvesant Fish for dinner table decoration was won by James Ballantyne with a fine arrangement of catleyas and ferns; there were six entries for this prize. The same exhibitor won first for centerpiece with a basket of yellow chrysanthemums and autumn foliage. Winsor from F. R. Pierson Company won first for vase of fifty carnations. These carnations were taken to Boston, where, after being shown four days, forty-eight of the original fifty were still in good order!

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CHRYSANTHEMUMS
LILY OF THE VALLEY
CARNATIONS

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WHOLESALE FLOWER MARKETS
 TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO November 5	ST. LOUIS November 5	PHILA. November 5	BOSTON November 8
ROSES				
Am. Beauty, Fan. & Sp.	25.00 to 35.00	20.00 to 25.00	25.00 to 30.00	20.00 to 25.00
" Extra.....	18.00 to 20.00	12.50 to 15.00	18.00 to 20.00	8.00 to 15.00
" No. 1.....	12.00 to 15.00	8.00 to 10.00	12.00 to 15.00	5.00 to 6.00
" Lower grades.....	6.00 to 10.00	4.00 to 6.00	5.00 to 8.00	2.00 to 4.00
Bride & "Maid—Fan. & Sp.	5.00 to 8.00	5.00 to 6.00	5.00 to 8.00	4.00 to 6.00
" Ordinary.....	3.00 to 4.00	2.00 to 3.00	3.00 to 5.00	1.00 to 4.00
Golden Gate, Fancy.....	5.00 to 8.00	5.00 to 6.00	6.00 to 8.00	3.00 to 6.00
" Ordinary.....	3.00 to 4.00	2.00 to 4.00	3.00 to 5.00	1.00 to 4.00
Liberty, Fancy.....	6.00 to 10.00	4.00 to 5.00	6.00 to 8.00	3.00 to 8.00
" Ordinary.....	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00	1.00 to 3.00
Richmond, Fancy.....	6.00 to 10.00	4.00 to 5.00	6.00 to 8.00	3.00 to 6.00
" Ordinary.....	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00	1.00 to 3.00
Kaiserin, Carnot, Chatenay, Fancy.	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	3.00 to 6.00
" Ordinary.....	3.00 to 4.00	3.00 to 5.00	3.00 to 5.00	1.00 to 3.00
CARNATIONS				
Fancy.....	4.00 to 5.00	2.50 to 3.00	2.50 to 3.00	1.50 to 2.00
Ordinary.....	2.00 to 3.00	1.50 to 2.00	2.00 to .....	.75 to 1.00
MISCELLANEOUS				
Chrysanthemums.....	20.00 to 30.00	5.00 to 25.00	8.00 to 25.00	3.00 to 12.00
Cattleyas.....	..... to 50.00	..... to	50.00 to	40.00 to 50.00
Lilies.....	..... to 12.00	..... to	12.00 to	8.00 to 12.00
Violets.....	..... to .....	..... to .....	..... to .....	..... to .50
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Dahlias.....	..... to .....	..... to .....	..... to .....	..... to
Tuberose.....	..... to .....	..... to .....	..... to .....	..... to
Mignonette.....	.75 to 1.00	..... to .....	..... to	1.00 to 2.00
Adiantum Cuneatum.....	1.50 to .....	..... to	1.00 to .....	.50 to 1.00
" Crownatum.....	..... to .....	..... to 1.00	1.50 to	1.00 to 1.50
Smilax.....	..... to 12.00	..... to 12.50	15.00 to	8.00 to 12.00
Asparagus Plumosus, strings..... to 50.00	25.00 to 50.00	35.00 to 50.00 to 50.00
" " & Sprengeri bunches	25.00 to 35.00	25.00 to 75.00	35.00 to 50.00	20.00 to 50.00

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 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.
 Script Letters, 3. 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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 Roses and Carnations
 A Specialty.....
 WHOLESALE GROWER of **CUT FLOWERS**

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for samples.

E. A. BEAVEN, Evergreen, Ala.

CUT FLOWER MARKET REPORTS

BOSTON Chrysanthemums rule at the present time, and their effect upon the market is felt all along the line. Violets are being received in large quantities, and the quality is good, the plants being in a fine healthy condition while prices as a rule are only fair. Carnations are improving, although the stems are still quite short. Roses are running small in size, but American Beauties still hold good.

BUFFALO Clear and cold weather prevailed the past week, and stock, especially in the carnation and chrysanthemum line, was not overflowing, although a good amount was handled. Good demand held the prices firm on Beauties and select teas, the quality being unequalled at this time of year. Lily of the valley and violets were also in fine quality and sold well. Decorators used considerable southern smilax and asparagus, and in general a good, lively week was had amongst the trade.

CHICAGO The dark, cool weather the early part of the week affected the supply in some lines but the general trend of business was good and stock was well cleaned up. The supply of carnations is increasing; the late varieties of chrysanthemums are coming in apace and the quality is good. Lily of the valley is scarce. Orchids and New York violets are plentiful and move well.

COLUMBUS Chrysanthemums rule the market; even the best roses have been somewhat neglected the past few days for them. It is only for a very short time each year, that these grand flowers are in the grand form they are now. All the varieties here are very late in finishing this year; in fact, so great has been the demand that even flowers with quite green centers are being sold. Trade in all branches is very brisk. Hallowe'en entertainments made things very lively last Wednesday; there being many elaborate decorations executed by all our florists. Other stock has changed little the past week.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

INDIANAPOLIS Business still continues active. Large quantities of cut flowers are being used. The weather is very favorable to growing stock. Chrysanthemums are having the best of it in the stores, though there is a reasonable demand for roses, carnations and violets. Carnations are taken as fast as they come in, and this condition is likely to prevail till after the holidays. Violets are in good demand, but hard to get in quantities. Lilies are more plentiful, but are slow sale. Lily of valley continues to have a good demand, the quality being very good. Green goods have been in satisfactory supply and demand.

LOUISVILLE Business conditions the previous week were greatly above the average. Stocks in all lines became short. Chrysanthemums have had a great run, everything being sold out. Carnations had a very great demand, with stock hard to get. The quality is very good. The demand for roses was heavy, supply light, and the quality satisfactory. Violets, lily of the valley and other stock move well.

PHILADELPHIA Demand continued good in most lines the past week with prices nearly stationary. Roses and other flowers suffered considerably on account of the influx of chrysanthemums which are now at their height. Beauties are of excellent quality and moved fairly well. Liberties and Richmonds dragged a little as did the other staple varieties with the exception of whites. Carnations

are now plentiful and prices have eased up considerably. Good supplies of cattleyas, denbrobioms, and oncidiums are coming in and find ready sale. Lily of the valley is of excellent quality at present and moving well. Violets are not over plentiful as yet either in doubles or singles.

WASHINGTON "Queen of Autumn"—Is that reformed or degenerate spelling? Awaiting an answer when the New York returns have done their deadly work, I will state that regardless of the spelling, the flowers are here all right, and a great many of them. The local growers usually make a good showing in chrysanthemums and considering an unfavorable season for growth, the stock in sight is creditable. All the retailers had good business during the past week, Saturday being a banner day. In addition to the large stock of chrysanthemums disposed of, other cut stocks were also in demand. There is considerable decorating for quiet social affairs, but official entertaining will not begin until December.

INCORPORATED.

Le Claire Nurseries Co., Rochester, N. Y. Incorporators, Jas. E., Fred and Chauncey A. Le Claire; capital, \$25,000.

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Roses			Carnations, Fancy	2.00 to 4.00	2.00 to 4.00
Am. Beauty, fao and sp.	15.00 to 25.00	15.00 to 25.00	Carnations, Ordinary	1.00 to 1.50	1.00 to 2.00
" extra.....	10.00 to 12.00	10.00 to 15.00	Chrysanthemums	5.00 to 25.00	5.00 to 25.00
" No. 1.....	6.00 to 10.00	6.00 to 10.00	Cattleyas	35.00 to 40.00	25.00 to 40.00
" Lower grades.....	1.00 to 4.00	1.00 to 4.00	Lilies	10.00 to 12.00	10.00 to 12.00
Bride & Maid, fao and sp.....	4.00 to 6.00	4.00 to 6.00	Lily of the Valley	1.00 to 4.00	1.00 to 4.00
" Ordinary.....	.50 to 2.00	.75 to 2.00	Violets.....	.....	.50 to 1.00
Golden Gate, fancy.....	4.00 to 6.00	4.00 to 6.00	Tuberose.....	.....	.....
" ordinary.....	.50 to 2.00	.75 to 2.00	Almonette	2.00 to 6.00	1.00 to 3.00
Liberty, fancy.....	5.00 to 8.00	5.00 to 8.00	Adiantum Cuneatum.....	.50 to .75	.50 to .75
" ordinary.....	.50 to 2.00	.75 to 2.00	" Crowcanum	1.00 to 1.50	1.00 to 1.50
Richmond, fancy.....	5.00 to 8.00	5.00 to 8.00	Smilax	8.00 to 10.00	8.00 to 10.00
" ordinary.....	.50 to 2.00	.75 to 2.00	Asparagus Plumosus	15.00 to 25.00	20.00 to 35.00
Kaiserin, Carnot, Chatenay, fancy.....	4.00 to 6.00	4.00 to 6.00	" & Sprenger, bunches	10.00 to 15.00	15.00 to 25.00
" ordinary.....	.50 to 2.00	.75 to 2.00			

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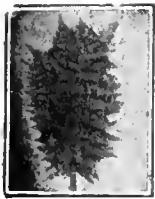
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and are dealers in
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HENRY M. ROBINSON & CO., 8 & 10 Province St., Boston, Mass.
L. D. Telephone, Main, 2613.



WHOLESALE FLOWER MARKETS.

PER 100.
TO DEALERS ONLY.

	CINCINNATI November 6	DETROIT October 16	BUFFALO November 5	PITTSBURG November 7
ROSES				
Am. Beauty, Fan, and Sp.	30.00 to 35.00	30.00 to 40.00	20.00 to 25.00	..... to 25.00
" Extra	20.00 to 25.00	25.00 to 30.00	15.00 to 25.00	..... to 20.00
" No. 1	15.00 to 20.00	20.00 to 25.00	10.00 to 15.00	12.00 to 15.00
" Lower grades	8.00 to 10.00	10.00 to 15.00	3.00 to 10.00	..... to 6.00
Bride and 'Maid - Fan, and Sp.	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	..... to 8.00
" Ordinary	2.00 to 4.00	3.00 to 4.00	3.00 to 5.00	..... to 6.00
Golden Gate, Fancy	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	..... to 8.00
" Ordinary	2.00 to 4.00	3.00 to 4.00	3.00 to 5.00	..... to 6.00
Liberty, Fancy	5.00 to 6.00	6.00 to 8.00	7.00 to 8.00	..... to 8.00
" Ordinary	2.00 to 4.00	3.00 to 4.00	3.00 to 5.00	4.00 to 6.00
Richmond, Fancy	5.00 to 6.00	6.00 to 8.00	7.00 to 8.00	..... to 8.00
" Ordinary	2.00 to 4.00	3.00 to 4.00	3.00 to 5.00	4.00 to 6.00
Kaiserin, Carnot, Chatenay, Fancy	5.00 to 6.00	6.00 to 8.00	6.00 to 7.00	6.00 to 8.00
" Ordinary	3.00 to 4.00	4.00 to 6.00	3.00 to 5.00	..... to 4.00
CARNATIONS				
Fancy	2.00 to 3.00	2.50 to 3.00	2.50 to 3.50	2.50 to 3.50
Ordinary	1.00 to 2.00	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00
MISCELLANEOUS				
Chrysaethemum	4.00 to 20.00	12.00 to 20.00	6.00 to 25.00	4.00 to 25.00
Cattleyas	..... to 50.00	..... to 50.00	..... to 50.00	..... to 50.00
Lilies	8.00 to 10.00	12.50 to 15.00	5.00 to 15.00	18.00 to 20.00
Violets	..... to 1.00	..... to 1.00	..... to 1.00	.75 to 1.25
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Tuberose	..... to 3.00	..... to 4.00	..... to 5.00	..... to 6.00
Mignonette	..... to 1.00	..... to 1.00	..... to 1.50	..... to 2.00
Adiantum Cuneatum	..... to 1.00	1.50 to 2.00	1.50 to 2.00	.75 to 1.00
" Crownatum	..... to 2.00	..... to 3.00	..... to 1.50	1.25 to 1.50
Smilax	..... to 12.50	12.50 to 15.00	12.50 to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	50.00 to 60.00	40.00 to 50.00	30.00 to 40.00
" & Sprengeri, bunches	25.00 to 35.00	30.00 to 35.00	25.00 to 30.00	30.00 to 50.00

Geo. A. Sutherland Co.

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Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

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Thanking you for your past favors and hoping for the continuance of the same in the future, especially as we will be able with more accommodations and with a larger stock to fill your orders more promptly than heretofore. We are, Very truly yours, **J. STERN & CO.**

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Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Laugdon, D. C.

Adiantum Farleyense, 2 1/2-in. strong stuff, for growing on, or for Fern dish, \$15.00 per 100; \$140.00 per 1,000. J. A. Peterson, Westwood, Cincinnati, O.

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Thos. J. Grey & Co., 32 S. Market St., Boston.

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James Crawshaw, 403 Plainfield St., Providence, R. I.

Asparagus Crawshawii.

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Scharff Bros., Ven Wert, Ohio. Asparagus Plumosus and Sprengerii. Asparagus plumosus nanus and Sprengerii, 2 1/2-in., \$2 50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus Plumosa, 2-in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erle Floral Co., Erle, Pa., or Wm. F. Kastling, 385 Ellifcott St., Buffalo, N. Y.

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Begonias Gloire de Lorraine and Turnford Hall, propagated from leaf cuttings, \$15.00 100; \$140.00 1000; 4-in., \$40.00 100. Cash. J. A. Peterson, Westwood, Cincinnati, O.

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Folding cut flower boxes, the best made. Write for list. Holton & Huukel Co., Milwaukee, Wis.

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DRACAENAS.

Henry A. Dreer, Philadelphia.

Dracaena terminalis from bench, fine \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

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A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address The Barwell Agricultural Works, Waukegan, Ills. Established at Leicester, England in 1800.

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.
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Young & Nugent, 42 W. 28 St., New York.

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Mills, the Florist, Jacksonville, Fla.

Telegraph or mail orders promptly filled.

Long distance telephone connections.

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Arthur T. Boddington, 342 W. 14th St., New York.

Tulips, Multiflorums.

LILIUM HARRISII.

F. R. Piersou Co., Tarrytown-on-Hudson, N. Y.

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LILY OF THE VALLEY.

John Scheepers & Co., 2-6 Old Slip, N. Y. Excellent.

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MUSHROOM SPAWN.

Cochran Mushroom & Spaw Co., 911 Chemical Bldg., St. Louis, Mo.

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NARCISSUS.

Stump & Walter Co., 50 Barclay St., N. Y.

NICO-FUME.

Ky. Tobacco Product Co., Louisville, Ky.

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NICOTEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.

NURSERY STOCK.

John Waterer & Sons, Ltd., American Nursery, Bagshot, England.

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Bay State Nurseries, N. Abington, Mass.

For page see List of Advertisers.

Cottage Gardens Co., Queens, N. Y.

Specimen Nursery Stock.

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ORCHIDS.

S. S. Pennock-Meehan Co., 1608-1618 Ludlow St., Phila.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.

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ORCHID PLANTS—Continued.

- Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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- Julius Roehrs Co., Rutherford, N. J.
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- Carrillo & Baldwin, Secaucus, N. J.
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- A Held, 11-19 William St., New York.
Orchids for Spring Delivery.
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- J. A. Manda, 191 Valley Road, W. Orange,
N. J.
Orchids for Beginners.
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PALMS.

- A. Leuthy & Co., Roslindsle, Mass.
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- Henry A. Dreer, Philadelphia.

PANDANUS.

- J. A. Peterson, McHenry Av., Cincinnati, O.
Pandanus Veitchii.
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PANSIES.

- F. A. Baller, Bloomington, Ill.

PATENTS.

- Siggers & Siggers, Washington, D. C.
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PEONIES.

- Edward Swayne, West Chester, Pa.
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- Johnson Seed Co., 217 Market St. Phila.

PHOENIX ROEBELINI.

- John Lewis Childs, Floral Park, N. Y.
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POT HANGERS.

- Pot hangers, Kramer's \$1 doz. by exp.,
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PRIMULAS.

- Baudisch & Co., Union Hill, N. J.
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- Primula Obs. Grandiflora. 2 1/2 in. pots
\$3.00 per 100. Edward Allen, Plainfield,
Conn.

PRIVET.

- Valley Farms Nursery Co., Brookfield
Centre, Mass.
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RHODODENDRONS.

- John Waterer & Sons, Ltd., American
Nursery, Bagshot, Eng.
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ROSES.

- M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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- E. H. Pye, Upper Nyack, N. Y.
For page see List of Advertisers.
- Benj. Connell, West Grove, Pa.
Crimson Ramblers.
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- H. Frank Darrow, 26 Barclay St., New
York.
Holland Roses: Manetti Stock.
American Beauties, 2-in., \$55.00; 3-in.,
\$8.00 1000. Cash. J. Henry Bartram,
Landsdowne, Pa.
Roses. Baby Rambler, the strongest dor-
mant stock in the country. \$25.00 per 100;
2 1/2 in. pot plants, \$7.00 per 100, \$65.00
per 1000. Brown Bros. Co., Rochester,
N. Y.

SEEDS.

- T. J. Grey & Co., 32 So. Market St.
Boston, Mass.
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- Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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- W. Atlee Burpee & Co., Philadelphia.
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- J. M. Thorburn & Co.,
33 Barclay St., New York.
Pandanus Ullis Seeds.
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- A. T. Boddington, 342 W. 14th St., N. Y.
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SEEDS—Continued.

- H. F. Michell Co., 1017 Market St.
Philadelphia, Pa.
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- R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
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- James Vick's Sons, Rochester, N. Y.
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- W. W. Rawson & Co., 5 Union St., Boston.
True Irish Shamrock Seed.
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- Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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- G. C. Watson, Dobson Bldg., Phila.
Grass Seeds.
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- H. E. Flske Seed Co.,
12 and 13 Faneuil Hall Sq., Boston.
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- Ricksrds Bros., 37 East 19th St., New York.
Giant Cyclamen Seeds.
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- Johnson Seed Co., 217 Market Street,
Philadelphia.
Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and
Tree Seeds.

SHEEP MANURE.

- Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Wizard Brand.
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- Wm. Elliot & Sons, 201 Fulton St., New
York.
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SHEET MOSS.

- E. A. Beaven, Evergreen, Ala.
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WILD SMILAX.

- E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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SMILAX PLANTS.

- R. Kilbourn, Clinton, N. Y.
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SPHAGNUM MOSS.

- Live Sphagnum moss, orbid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

STEAM TRAP.

- E. Hippard, Youngstown, O.
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TOMATO SEEDS.

- Wm. Slim, Cliftondale, Mass.
Comet Tomato.
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TREE TUBS.

- Wm. Elliott & Sons, 201 Fulton St., New
York.
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VENTILATING APPARATUS.

- Lord & Burnham Co.,
1133 Broadway, New York.
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- Pierson U-Bar Co., 1 Madison Sq., N. Y.
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- Hitchings & Co., 1170 Broadway, N. Y.
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- John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
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- Weathered Co., 46 and 48 Marlon St., N. Y.
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- Foley Mfg. Co., 471 W. 22nd St., Chicago.
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- J. C. Monloger Co., 421 Hawthorne Ave.,
Chicago.
The Chicago Lifter.

VIOLETS.

- H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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- J. C. Schmidt Co., Bristol, Pa.
Charles H. Green, Spencer, Mass.
Princess of Wales.
J. S. Smiley, West Roxbury, Mass.

WIREWORK.

- Reed & Keller, 122 W. 25th St., New York.
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- Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

- N. F. McCarthy & Co., 84 Hawley St.,
Boston.
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- H. M. Robinson & Co., 15 Province St.,
Boston.
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- George A. Sutherland Co., 34 Hawley St.,
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- Welch Bros., 226 Devonshire St., Boston.
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Buffalo.

- Wm. F. Kasting, 383-87 Ellicott St., Buf-
falo, N. Y.
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Chicago.

- J. A. Budlong, 37 Randolph St., Chicago.
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- Chas. W. McKellar, 51 Wabash Av., Chicago.
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- Peter Reinberg, 51 Wabash Av., Chicago.
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Detroit.

- Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Dilger, mgr.
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New York.

- J. K. Allen, 106 W. 28th St., New York.
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- Wm. Sturt Allen Co., 53 W. 28th St.,
New York.
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- J. S. Fearich, 110 W. 28th St., New York.
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- Ford Bros., 48 West 28th St., New York.
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- H. E. Froment, 57 W. 28th St., New York.
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- Alex. J. Guttman, 43 West 28th St.
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- Phillip F. Kessler, 55 W. 26th St., New York.
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- A. H. Langjahr, 55 W. 28th St., New York.
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- James McManus, 42 W. 28th St., New York.
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- Chas. Millang, 50 West 29th St., New York.
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- Frank Millang, 55-57 W. 26th St., New
York.
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- John I. Raynor, 40 W. 28th St., New York.
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- W. F. Sheridan, 39 W. 28th St., New York.
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- Traendly & Schenck, 44 W. 28th St., New
York.
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- Hicks & Crawbuck, Inc., 76 and 78 Court
St. Brooklyn, N. Y.
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- A. L. Young & Co., 54 W. 28th St., N. Y.
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- John Young, 51 W. 28th St., New York.
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- W. E. McKissick, 1221 Filbert St., Phila-
delphia, Pa.
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- Leo Niessen Co., 1217 Arch St., Phila-
delphia, Pa.
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- The S. S. Pennock-Meehan Co., 1608-18
Ludlow St., Philadelphia, Pa.
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- Edward Reid, 1526 Ranstead St., Philadel-
phia, Pa.
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Pittsburg.

- J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.
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- Pittsburg Florists' Exchange, 228 Diamond
St., Pittsburg, Pa.
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New Offers in This Issue.

ACCOUNTANT.

R. J. Dysart, 28 State St., Boston.
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BABY RAMBLERS, AZALEA INDICA.

F. W. O. Schmitz, Prince Bay N. Y.
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EASTER LILY BULBS.

H. F. Michell Co., Philadelphia.
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HARDY FERNS, GALAX.

N. F. McCarthy & Co., 51 Hawley St., Boston.
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HARDY HERBACEOUS STOCK, NURSERY STOCK, CONIFERS.

Palisades Nurseries, Sparkill, N. Y.
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HARDY SHRUBS.

R. I. Nurseries, Newport, R. I.
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GREENHOUSES BUILDING AND PROJECTED.

New.

E. Aurora, N. Y.—Elbert Hubbard, one house.
Dover, N. H.—C. Ramsburg, range of houses.

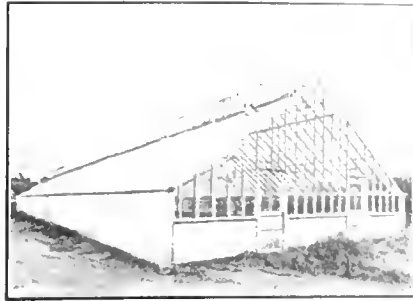
Additions.

Adams, Mass.—A. J. Boothman, one house.
Brattleboro, Vt.—C. E. Hopkins, one house.
Chester, Pa.—C. P. Mueller, one house.
Moberly, Mo.—H. V. Estill, one house.
N. Abington, Mass.—Bay State Nursery Co.

LIST OF PATENTS.

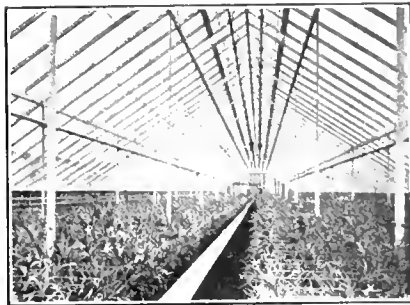
- 833,996. Lawn-Mower. Guy H. Bryan, Plankington, S. Dak.
- 833,278. Lawn-Weeder. Mathias W. Abts, Madison, Nebr., assignor of one half to Carl Horst, Madison, Nebr.
- October 30 1906.
- 834,458. Grass-Seeder. William T. Davis and George B. Davis, Hiawatha, Kans.
- 834,531. Cucumber-Picker. George W. Newton, Hubbard, Ohio.
- 834,564. Pruning Shears. William Cronk, Montour Falls, N. Y., assignor to Cronk & Carrier Manufacturing Co., Elmira, N. Y., a corporation of New York.
- 834,672. Trellis. Walter S. Hood, Wilkinsburg, Pa.

A MODEL CARNATION HOUSE.



EXTERIOR

The accompanying pictures show a new carnation house, 30x140, recently completed for J. R. Henthall of Columbus, Ohio. Enchantress, Flamingo,



INTERIOR

Estelle, Queen, Lady Bountiful, White and Pink Lawson are the varieties of carnations mainly selected for planting in this house.

GROWERS' ASSOCIATION?

We wish that every grower of and dealer in cannas would consider the above question carefully and then express, either through the trade papers or to us personally by letter, their own candid opinion upon it. If such an association could be formed, and include in its membership, the thousands of small florists all over the country, who handle from a few dozen to a few hundred cannas each year, and awake an interest in each to take hold and push literature regarding the beauties of the canna, as a plant for growing in small home gardens, as well as for planting in parks and public gardens, into the hands of the general public and keep up the campaign of education, by donations to city parks, of some of the best and most showy varieties—not necessarily of anyone's high-priced novelties, but something new in the community, that would attract much attention, there could, by united action, be such an interest worked up for cannas that the demand would be doubled in less than three years.

Let the association have a fee of one dollar per year, and reach out for members, not only florists and

growers, but among amateur flower-gardeners everywhere. Thousands, yes, thousands, of growers who could be induced to become members of such a society that would not think of joining the S. A. F. with much larger membership fee. Many of them, however, after being brought in closer contact with other growers in such an association would, no doubt, in a few years become deeply interested in floriculture generally, and would then likely become members of the S. A. F. There is a great chance to do educational work along floricultural lines and no one should try to discourage any movement along such lines, even though they be in the nature of kindergarten work. Let us reach out and take hold of the work, and educate the general public up to a better understanding of the beauties of floriculture.

In regard to registration, we have never considered that there was any implied recommendation, or acknowledged merits, attributed to such varieties as are offered for registration by the S. A. F., only the notice that a certain name has been given to a certain variety and the brief description given of it, being simply a help to identify it in future if it should come into general cultivation. We believe that the present system of registration is the only one that can be carried out without friction by any society. It is certain that no committee can pass on the merits of flowers as fragile as those of the canna in a satisfactory manner without seeing several plants of each variety growing and watching their growth for several weeks, and this would mean a vast amount of work for a committee, provided that there were several hundred new applicants for their favorable mention. Then if the committee should live in widely separated parts of the country and each have to be supplied with samples for growing it would mean quite an expense to the originator. The question of certifying varieties for merits should be another question altogether.

L. H. READ.

Fruitdale, Ala

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—Private place preferred as head gardener. Married; two children; good reference. A. N., care R. & J. Farquhar Co., Boston.

SITUATION WANTED by thoroughly experienced rose grower. Single, sober and reliable. H. E., care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED by gardener of adequate experience, to take management of estate, with or without greenhouses. Address H. J., care HORTICULTURE, 11 Hamilton place, Boston.

WANTED—A good, all around man for florist's store, with good reference; wages \$18.00 per week. Apply to Geo. H. Cooke, Conn. Ave. and L Street, Washington, D. C.

Anything of Value

to the profession

CAN BE SOLD

through advertising in


Horticulture

Tobacco Paper "NICO-FUME" LIQUID
 IS THE **STRONGEST, BEST PACKED, EASIEST APPLIED.**
OVR 40% NICOTINE
By far the CHEAPEST.
Furnishes the Most Nicotine for the Money!
JUST NOTE PRICES!

24 sheets.....\$ 0.75	Pint.....\$ 1.50
144 sheets..... 3.50	1/2 Gallon..... 5.50
288 sheets..... 6.50	Gallon..... 10.50
1728 sheets..... 35.10	5 Gallons..... 47.25

... Manufactured by ...
THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

The Standard Steam Trap
 Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.



The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.
The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.


E. HIPPARD, Youngstown, Ohio

Kroeschell Bros. Co.
 IMPROVED
Greenhouse Boiler,
 35 Erie St., CHICAGO.



Boilers made of Steel Boiler Plate; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

PULVERIZED SHEEP MANURE
STARVED ROSE BUSHES NEVER BLOOM
 and the successful florist wants more than the ordinary bloom and stunted stem—he wants all there is in the soil—the bush—the stem—the bloom.
 Don't starve the roots.
 Put away your bushes this fall with plenty of fall and spring food for the roots.
 The richest root food, stem and bloom producer you can use!



Wizard Brand Pulverized Sheep Manure
 It goes further than any other fertilizer, costs less, no waste—no refuse or seeds.
 Special prices to florists and greenhouse operators.
 Write for Booklet.
The PULVERIZED MANURE CO.
 31 Exchange Ave., CHICAGO

ESTAB. 1765
A. H. HEWES & CO.
 NO. CAMBRIDGE MASS.
 L. I. CITY N. Y.
CATALOGUE FREE.

STANDARD FLOWER POTS
 Packed in small crates, easy to handle.

1500 2 in. pots in crate \$4.88	120 7 in. pots 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. pots in crate \$3.60	
800 3 1/2 " " " 5.80	24 11 " " " 4.80	
500 4 " " " 4.50	24 12 " " " 3.60	
320 5 " " " 4.51	12 14 " " " 4.30	
144 6 " " " 7.16	6 16 " " " 4.50	

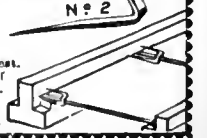
Seed pans, same price as pots. Send for price list of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent off for cash with order. Address **Hillinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER
GREENHOUSES
 ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices
The A. T. STEARNS LUMBER CO.
 NEPONSET, BOSTON, MASS.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

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.




PATENTS
 Trademarks and Copyrights
 Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working in the Failures of Others."
SIGGERS & SIGGERS
 PATENT
 Box 9, National Union Building
 Washington, D. C.

Standard Flower .. POTTS
 If your greenhouses are within 500 miles of the Capital, write us, we can save you money
W. H. ERNEST,
 25th and M Streets, WASHINGTON, D. C.

BOSTON PLATE & WINDOW GLASS CO.
GREENHOUSE GLASS
 German and American
 261 to 287 A St., BOSTON 20-22 Canal St.

ALL HEART



SUN DRIED
CYPRESS

**GREENHOUSE
MATERIAL**
IS THE BEST
WE HAVE LOTS OF IT
SEND FOR SKETCHES
ESTIMATES AND FREE
CATALOGUE
VENTILATING APPARATUS
HOT-BED SASH
FITTINGS &c.

FOLEY MFG. CO.
471 W 22ND ST.
CHICAGO

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us. FOLEY MANUFACTURING CO., 471 W. 22d Street, Chicago



**A
SAVING
DEVICE**

The **MOREHEAD TRAP**
will cut down operating expenses and bring better results.
Write us. We can help you grow better flowers.
MOREHEAD MFG. CO.
1046 Grand River Ave DETROIT, MICH.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

H AND C



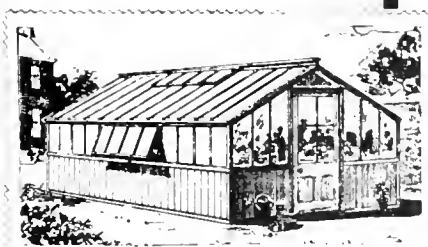
The Two Q's

of this greenhouse price competition seems to be QUANTITY and QUALITY. Quantity is the dust that the "just as good" man throws in your eyes. Quality is what we base our "buy of us" reasons on.

Our price is right for the right quality—and we want to do business only with the man who wants a greenhouse of endurance—one that's not an everlasting bill of repair expense.

HITCHINGS AND CO.
GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.

H AND C



The Premier Idea.

**The Practical Side
Of a Greenhouse**

is the one that should interest you. It's the one that we study most anyway. Premiers are the most practical houses made because they are durable, portable and convenient.

Besides that they only cost one third the usual amount.

Send for catalog No. G-48.

THE CHAS. H. MANLEY CO., Inc.,
ST. JOHNS, MICH.

GURNEY HEATERS
FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE. BOSTON OFFICE 74 FRANKLIN ST. BOSTON, MASS.

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL.

**GREENHOUSE CONSTRUCTION
LUMBER**
John C. Moninger Co.
117 E. Blackhawk St., CHICAGO

WEATHERED COMPANY
BOX 789, NEW YORK

GREENHOUSE BUILDING AND HEATING
Send for Catalogue

SEND FOR CATALOGUE OF
**SCOLLAY HOT WATER
and STEAM BOILERS**
JOHN A. SCOLLAY
73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

N. TOWANDA, N. Y. TORONTO, ONT.
**KING
CONSTRUCTION CO.**
GREENHOUSE CONSTRUCTION AND
EQUIPMENT
WRITE FOR CATALOGUE AND PRICES

Last week some one sent us a leading florist paper with this Washington item marked. We thought it rather interesting — rather conclusive. We wanted you to see it.

... of Washing-
... demands a flower commission house and
... it is found to come." Said another
... snapper: "No honest grower need fear the
... results of a commission house being es-
... tablished."
... Lord & Burnham will at once begin
... work on two new houses at the U. S.
... Botanical Gardens. It is the under-
... standing that work will be pushed to the
... limit that the work may be completed
... before severe weather sets in. I learn
... that the contract for this work was let
... to other parties but there was a hitch
... somewhere and it was taken out of their
... hands, after some trouble. It is getting
... pretty hard to fool Uncle Sam with
... something just as good."
... Pierson, of Tarrytown-on-1
... son, was a recent visitor to this city. It
... is hoped that in the future Mr. Pierson
... will be a more frequent caller. In
... it is believed that the discom-
... insor...

The Every Way Practical

thing is what you want and what we want you to want—the house with all there is in up-to-dateness and a certainty that it's a *laster*—not only freer from repairs, but *easier* to repair. That's our iron frame greenhouse.



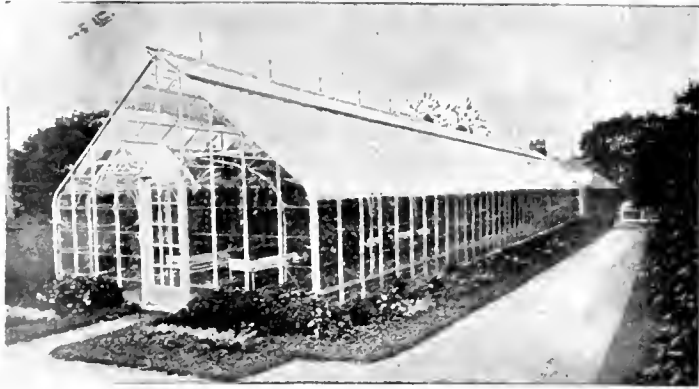
Lord & Burnham Co.

GREENHOUSE DESIGNERS
AND MANUFACTURERS

1133 Broadway, cor. 26th Street, New York
Boston Branch: - 819 Tremont Building



A DMITTED that the essential point in a greenhouse is its growing powers, yet why must you have a plain work-a-day looking affair when the U-Bar construction gives not only increased growing powers, but with the curved eave and wide spacing of glass admits of your green decidedly at ture of your to all this the greatest dura have a house equalled. Send



house being a tractive fea- grounds. Add matter of bility and you that cannot be for Catalog.

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HORTICULTURE

Vol. IV.

NOVEMBER 17, 1906

No. 20



ALFRED J. LOVELESS

President-elect Chrysanthemum Society of America

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LANDSCAPE GARDENER,
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per 100; 2 1/2-in., \$2.50 per 100.

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Boston Ferns, Fine Plants

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Fine Specimens in 5-inch pots, \$1 each;

6-inch, \$1.50 each; 8-inch, \$5

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6 to 8 inches		\$27.00 \$3.00
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Seed, \$5.00 per oz. Trade packet \$1.00.

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THE CHICAGO SHOW

This stupendous exhibition was easily the event of the season and was so recognized by the profession generally as evidenced by the attendance which represented every important district from Denver on the west to Boston on the east. The vast Coliseum was well-filled with exhibits, the whole show comparing favorably with the notable display of last year. The ceiling was festooned with laurel, 15,000 yards being used. The attendance fell off on the first three days as compared with last year's record, but picked up well at the close and the financial outcome was satisfactory.

The retailers' booths were fewer in number and, as a whole, did not impress us as equal to last year. Some of them were very fine, however, among the most artistic and elaborate being those of Samuelson, Weinhoeber, McAdams and Schiller. One of the best displays in the hall was Peter Reinberg's table of roses. Orr & Lockett contributed a florists' refrigerator which looks like a good one. Fine examples of greenhouses of Foley and Moninger construction were on exhibition.

Begonia Agatha, shown by J. A. Peterson, attracted much admiration. It has a close general resemblance to Lorraine, but the flowers are somewhat larger and clearer pink, and the foliage is thick and leathery. Mr. Peterson says it is much more readily propagated. Its parents are Socotrana and Moonlight. Killarney roses as shown by Bentley-Coatsworth Co., were a revelation to the rose growers on account of their great stems. These were obtained by disbudding strong growths. *Nephrolepis Amerpoblii* showed up beautifully. It is a gem of fine lace-work. On Saturday there were some fine displays of special flower baskets, one of which—a handle basket of Enchantress carnations, buds and foliage, by Samuelson, was a piece of artistic work rarely equalled. Rose baskets by C. Frauenfelder, of Richmond and adiantums, by Butler Floral Co., of Killarney and by Eaton Flower Shop of Sunrise and asparagus were all excellent. A basket arrangement of foliage plants by Frauenfelder was well done. In the chrysanthemum basket competition Samuelson won first with a handsome basket of pompon, small single and "Baby" chrysanthemums in sprays, all yellow.

The exhibition closed on Sunday evening, November 11, with the greatest attendance in the history of Chicago flower shows.

The Exhibition as Uncle John Thorpe Saw It.

Never in America has there been gathered together more magnificent chrysanthemums—and it's really no wonder, when all the giants made the fight—and then it was the east against the west, or vice versa. On the one side was Duckham, Totty, Herrington, Vince, Livingstone; on the other was Hill, Smith, Poehlmann, Bassett, Washburn, Wietor Bros. and Gunner Teilmann, all winners somewhere. The east let the west fight for the classes of 100 flowers—and they fought. The best white is Fidelity; the best

pink, Mary Mann; the best yellow, Appleton, the best "any other color" not much. All the time the east was eager to display itself, and it did in 16 different classes, not that it had a walk-over. It's not necessary to mention the names of the winners, or of all the flowers—except the names of the new, or scarce varieties—a good new variety always displaces a good old one. The good new ones were as follows and they are worth hunting up; the colors and descriptions may be found in the different catalogues, beginning with Chrystine Leroux, British Empire, Amateur Consiel, Madame Roussel, Donald McLeod—when I said McLeod, Elmer Smith said I had pronounced it wrong—Jos. Roacher, M. L. Dupuy, Victoria and Albert, Money Maker, Loissean Rossau. I am not sure as to the latter, some label writers think it easy to make out what they do not write plainly—Suzanne Gauthier, Mdme. Rosseau, A. Scalandrus, Mrs. H. Barnes, Mrs. H. Partridge, May Seddon, White Duckham, Mayor Weaver, M. G. Rivol, May Inglis, Ongawa, Crocus, Md. Pechou, Mdle Charbonne, Mrs. Geo. Beach, San Souci, M. F. Plant, Director Guard, Gen'l Hutton, Norman Davis, Mrs. Mease, Dubois, Fourssert, Miss M. Hankey, W. Wells, Mrs. Geo. Reed ("or Read") and H. Dick. Perhaps these are not all but they are all good. The flowers of pompons, from May, Hill, and others, were of the greatest interest, and had crowds around them continuously.

The chrysanthemum plants are of ordinary merit—nothing striking or meritorious except the White Mountain shown by the Chrysanthemum Society of America, a specimen of Mrs. J. B. Traintor, eight feet across. It was a magnificent specimen and its equal has been rarely seen.

The show is greatly indebted to South Park, Lincoln Park and the West Parks for the several magnificent groups of fine palms, ferns, orchids and other plants—thanks for all. There are fine araucarias and all the family of *Nephrolepis* as far as recorded. There were some absolutely new tropical plants collected by Prof. John F. Cowell, which will be described in next issue.

A new Begonia Agatha from Peterson is fine and all the florists' booths are revelations fifteen of them.

Now we come to Vaughan's flower garden, so charmingly laid out. A new privet shown here is promising enough to take the place of box for edging. The display of nursery stock by Swain Nelson & Sons, Porter Co. and the Dundee Nursery Co. were features of the exhibition to which we shall again refer. The orchids of Pres. Uhllein were beautiful, and how thankful the west ought to be to him year in and year out. The Selfridge orchid collection shown by Lincoln Park were also very fine.

There was a "battle royal" among the roses on Tuesday. Bassett & Washburn, Poehlmann, Dittmann, Wietor Bros., Bentley & Coatsworth, Peter Reinberg, E. G. Hill Co., all winners in either Beauty, Bride, Bridesmaid, Chatnay, Uncle John, Killarney (what a gem), Perle, Rich-

mond and Lorraine.

On Wednesday the Division was an aggressive and even stronger display of roses. The show had named forty-one classes, of which thirteen did not fill, the total number of competitions being about ninety. One class, Enchantress had eleven entries, and so down to only one in a class. The most remarkable thing was that of Mrs. T. W. Lawson, the breeder of so many. There were only five entries. The Enchantress family of which there is such a number that the difficulty is to keep track of them, monopolized the show, mostly all being meritorious. The end of this Enchantress with her wiles is not yet in sight. In whites, White Perfection a gem of the first water and White Lawson led, followed by Lady Bourneful, Wolcott, Queen and Moonlight. Of reds, Red Lawson and No. 49 of the Chicago Carnation Co. (by the way, no flower under number should be permitted to compete in the regular schedule classes), Robert Craig and Victory. Of crimsons only one variety, Harlowarden, was shown, and it is good always. Of pinks, Enchantress, Mrs. Thos. W. Lawson, Fiancee, Nelson Fisher, etc. The best of all, and the best carnation to date is Aristocrat. Of striped only five entries. Of new varieties there were No. 49, Skidelsky's Pink Enchantress and Melody, but White Perfection and Aristocrat held all other competitors safe. The main exhibitors of carnations were: Chicago Carnation Co. (winning thirteen firsts), Poehlmann Bros., Bassett & Washburn, H. W. Buckbee, Anton Then, Peter Reinberg, Sol. Garland, Fritz Bahr, Gunnar Teilmann, J. D. Thompson Co., W. C. Hill Floral Co., E. H. Blaneuser, J. C. Ahrenfeld, B. K. Floral Co. and Guardian Angel Co.

JOHN THORPE.

THE BANQUET.

The banquet on Thursday evening given in honor of the Chrysanthemum Society of America and the visitors to the exhibition was a great success in every respect. There were about two hundred guests. President Hauswirth of the Chicago Florists' Club presided. When the oratorical session had been reached he spoke a few words of cordial welcome to the visitors and asked J. C. Vaughan to serve as toastmaster who first called upon president W. F. Kasting of the S. A. F. to respond for the national society. Mr. Kasting spoke in commendation of what Chicago had accomplished in the exhibition now in progress and expressed his conviction that it is the only city that can make the contemplated national flower show of 1908 a success.

"The Chrysanthemum Society of America" was the toast given its president, Wm. Duckham. Mr. Duckham expressed hope for the future growth of the C. S. A. and the placing of the chrysanthemum in its deserved position of importance. He regretted the lack of entries for the valuable prizes and urged that more enthusiasts take hold and do something for the autumn queen, especially in the matter of hybridization.

Secretary W. J. Stewart was then

called upon to say something concerning the growth of floriculture. He reverted briefly to the changed conditions from the time when Chicago depended upon Boston for its best rose supply until now when Chicago is the largest grower and shipper of roses on the continent. He claimed that the advancement of the business found its best manifestation in the growth and prosperity of the national and local organizations.

J. N. May spoke on flower shows and their educational value. He extolled the beneficent influence of flowers in the exhibition and elsewhere and urged the education of the children in horticulture.

John Burton spoke enthusiastically of the retailers' efforts at the exhibition which he said had done more to make it a success than any other

templated national flower show. He recognized in Chicago the most promising location for this event and urged unity of purpose and harmony of action as the great essentials to success.

E. V. Hallock spoke on banquets and their uses. He touched upon the practical and romantic side of these florists' reunions, which do so much to make new acquaintances and renew old friendships and asserted that no young man can afford to stay away from these occasions.

J. F. Cowell spoke briefly in commendation of the exhibition which he pronounced better than any of its predecessors.

J. F. Sullivan was also very complimentary to the exhibitors and show management, which he said was beyond criticism. He urged that retail-

President J. F. Ammann of the State Florists' Association of Illinois was the last speaker. He enlarged on the necessity of organization the best safeguard for which he declared to be increase in the great family of societies.

"Auld Lang Syne" was chorused at 12.15 A. M.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The annual meeting of the society was scheduled for 3 o'clock P. M., November 7, and when President Duckham called the gathering to order at that time there was a goodly attendance. Following the reading of the president's address, which appeared in our issue of last week, were the re-



THE CHICAGO BANQUET

element. Their enterprise and liberality had impressed him more than anything else and gratitude was due them for their demonstration of how best to put the growers' product before the eye of the public.

J. T. Temple responded for the judges who he said, had examined critically everything except the asparagus on the roof, being minus wings to get there. He advised against too much specialization in flower growing and recommended that the young men take up the culture of a more diversified stock.

J. D. Carmody addressed his "fellow travelers to eternity", with serious men and misters know which heightened by contrast the characteristic comicalities in allusion and story with which he regaled and enraptured his audience.

A. Herrington spoke of the con-

ers should give more publicity to their wares through newspaper advertising and thus keep up with the product which the growers are supplying.

J. A. Valentine spoke in praise of the "man behind the gun" the earnest worker for the exhibition and other enterprises for the general good—and the indispensable traveling salesman.

Secretary-elect Hauswirth called attention to the great advancement from old-time methods, much of which is due to organization and asked that everyone enroll themselves as members of the S. A. F.

George Asmus followed with an explanation of the great success of the Chicago Flower Show which he said was due to able leadership and unselfish work.

Mr. Klimmer made a hit with his humorous demonstration of the proposition that florists have no peers.

ports of Secretary Fraser and Treasurer May, the latter showing a good balance on hand.

Officers were elected as follows: President, Alfred J. Loveless, Lenox, Mass.; vice-president, William Kleinheinz, Ogontz, Pa.; treasurer, John N. May; secretary, David Fraser, Pittsburg. The publication of an annual report was decided upon. E. G. Hill read a paper on the "Influence of Climatic Conditions on Chrysanthemum Culture," which was discussed at length. Elmer D. Smith offered to give the members of the society the benefit of his data and asked for particulars regarding new varieties for the purpose of making his records complete and reliable.

Invitations were received for holding the next annual meeting from Jamestown, Va., St. Louis and Indianapolis.

This matter will be decided by the incoming officers.

The President-Elect.

President-elect Alfred J. Loveless was born at Langford, Somerset, England, and at nineteen years of age was appointed head gardener in the Langford House gardens. Two years later he resigned this position to take charge of the gardens of the Earl of Kenmare, where among the large collection of herbaceous plants he learned his first lessons of color massing in herbaceous borders. His career in America began at the age of 23 on St. Patrick's day, when almost immediately on his arrival he secured a position in the gardens of W. B. Dinsmore. For the past eleven years Mr. Loveless has been superintendent of the estate of John Sloane, Lenox, Mass., where he has found abundant opportunity to display the artistic skill that is his by inheritance. The Lenox Horticultural Society, of which Mr. Loveless is an ex-president, is one of the largest and most influential organizations in the State.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of Committees.

Chicago, Oct. 27. Chrysanthemum Mme. Loiseau Rousseau; pink. Exhibited by The E. G. Hill Co., Richmond, Ind. Scored 82 points exhibition scale.

Cincinnati, Nov. 3. Ongawa; bronze; Jap. incurved. Scored 88 points exhibition scale.

Chicago, Nov. 3d. Claremont. Yellow. Exhibited by Adam Wolniewicz, Chicago, Ill. Scored 80 points, commercial scale.

Boston, Nov. 3d. White sport of Wm. Duckham. Jap. incurved. Exhibited by Chas. H. Totty, Madison, N. J. Scored 86 points commercial and 88 points exhibition scale.

Philadelphia, Nov. 6th. Mlle. E. Chabanne. Light pink, loose incurved. Exhibited by the E. G. Hill Co., Richmond, Ind. Scored 87 points commercial and 87 exhibition scale.

Cincinnati, Nov. 10th. Charles Ragee. Ivory white, incurved. Exhibited by John Fries, Newport, Ky. Scored 86 points commercial scale.

Cincinnati, Nov. 10th. No. 74-4-05. Pink, Jap. incurved. Exhibited by Nathan Smith & Sons, Adrian, Mich. Scored 83 points commercial scale.

Cincinnati, Nov. 10th. No. 55-4-05. Bronze, Jap reflexed. Exhibited by Nathan Smith & Sons, Adrian, Mich. Scored 80 points exhibition scale.

DAVID FRASER, Secy.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next regular monthly meeting of the club will be held at Horticultural Hall, Boston, on Tuesday evening, November 20, at 8 o'clock. The principal business of the evening will be the election of officers. The nominating committee will, according to instructions, bring in two sets of names for the several offices. Some very interesting exhibits are promised for this meeting, which will undoubtedly be the most largely attended of any in the club's history.

The prospectus for landscape gardening classes has been sent to all members and it is hoped to organize a large class on November 20.

W. N. CRAIG, Secretary.

NEW YORK FLORISTS' CLUB LADIES' NIGHT.

The meeting of the New York Club on Monday evening was chrysanthemum night, ladies' night, and a musical night all in one. And at its close the verdict was "the best meeting the club has ever held." The result was especially gratifying to President Scott and he showed his appreciation by proposing three new members.

Owing to severe lameness, the result of an accident a year ago, Mr. Scott was unable to be present until late in the evening. The vice-president was also unavoidably detained, and it seemed like old times to see the genial ex-president, Patrick O'Mara, temporarily presiding. He rushed the business through in parliamentary style and at a record speed, that the evening might largely be devoted to the lady guests, of whom more than one hundred attended.

Fully 230 all together filled the rooms, as they have never been filled by flower lovers and sellers and growers before. The resolutions on the death of Paul R. B. Pierson were read by Alex. Wallace, on the death of the mother of Mrs. Geo. Burnett by Mr. Wheeler. Both tributes were touching and eulogistic to the memory of the departed. Later, the death of the father of Philip Kessler was noted, and a committee consisting of J. H. Pepper, Walter F. Sheridan and F. H. Traendly appointed to draw up suitable resolutions for presentation at the next meeting in December. A letter from Saml. Thorne was read, appreciative of the courtesy of the club, in voting unanimously in behalf of his honorary membership, which he gracefully accepted.

At the December meeting, the second Tuesday of the month, the following candidates for the offices of the club will know their fate: For president, Charles H. Totty of Madison, N. J.; John B. Nugent of New York; for vice-president, A. J. Manda of Brooklyn, N. Y.; Harry May of Summit, N. J.; for secretary, John Young of New York, Alex. J. Guttman of New York; for treasurer, Chas. B. Weathered of New York, L. W. Wheeler of New York; for trustees, John Scott of Flatbush, Walter F. Sheridan of New York, V. H. Hallock of Queens, N. Y., Theo. Roehrs, Jr., of Rutherford, N. J., John Donaldson of Elmhurst, L. I., and Chas. Lenker of Freeport, N. Y.

The exhibits were choice, and the thanks of the club to the generous givers of the flowers were cordial and unanimous.

Visitors were: H. H. Barrows, Whitman, Mass.; M. A. Patten, Tewkesbury, Mass.; and Peter Fisher, of Ellis, Mass. Mr. Fisher showed a vase of Beacon carnation, to which the judges awarded 87 points and a preliminary certificate. A similar award with 85 points was given Paul Niehoff for his rose Aurora. Rose-pink Enchantress and Victory won a vote of thanks for Guttman & Weber. C. H. Totty showed chrysanthemum White Duckham, which received 89 points and a preliminary certificate. H. Turner, gardener for Howard Gould, received a cultural certificate for three vases of chrysanthemum, and the same award was given to Andrew McDonald, gardener for J. B. Duke, for chrysanthemum flowers. H. H. Barrows showed

Neparolepsis Whitman in splendid form, and C. W. Ward staged some elegant carnations, including a vase of one hundred seedlings, a vote of thanks being recorded for each.

All the flowers were distributed amongst the ladies at the close of the dinner, and the artists were also handsomely remembered. It was a walking flower garden that meandered homeward at midnight.

The programme was long and varied and reflected credit upon Jno. B. Nugent, the chairman of the entertainment committee, and all who combined to make the evening such a success. Mr. Wilson, one of the new members, proved himself a versatile artist in fancy dancing, violin solos, and eccentric musical effects. The Clan McDonald Glee Club, fifteen strong, came over from Brooklyn with Pres. Scott, and Scotch melodies were many and delightfully rendered. The Misses Birnie danced prettily in highland costume to the music of the bagpipes by their distinguished father, and were encored again and again. Professor Lusk gave banjo and piano solos, and Prof. Russell sang and played most acceptably. The Misses Howard, Pollock, Cooper, Hafer, and Mrs. Foljay are all artists and their singing was beyond criticism. Miss Barnett is an elocutionist of great talent and thrilled the company with her tragic rendering. The club's own talent, the Rickards Bros., were in great voice and made the rafters ring. While the ladies feasted, the bagpipes and the male surplus made melody of its kind. Altogether it was a record evening.

PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The subject of the club meeting Tuesday evening, November 6, was chrysanthemums. Of the large flowering greenhouse varieties, Chas. H. Totty, Madison, N. J., showed six of a fine white shaded delicate pink. If these had been labeled, the label has unfortunately become lost, but they attracted much favorable attention.

E. G. Hill, Richmond, Ind., had a large display under French names.

Among the local growers, A. R. Peacock, gardener Thomas Jenkinson, The Phipps Conservatories, Schenley Park, Jno. W. Jones, foreman, William Westhoff, De Haven, Blind Bros., West View, McRae & Jenkins, showed extensive and well developed collections; the Pittsburg Florists' Exchange, good commercial varieties; Messrs. Godwin Bros., Bridgeville, a sport from Ivory; Charles Peterson, East Liverpool, O., an unnamed light cream sport from Yellow Queen. Hardy outdoor chrysanthemums were shown by R. Vincent & Sons, White Marsh, Md., and Thos. Meehan & Sons, Philadelphia, showed their entire list of 51 varieties. Carnations were shown by Messrs. Peacock of Pittsburg and Westhoff of De Haven. Messrs. Shrivie, Falconer and Randolph were appointed a committee to pass upon the merits of the chrysanthemums shown.

The subject for the December meeting is Christmas plants and how to present them to the public in the most attractive way; seven members were appointed to give five minute talks on this subject. H. P. JOSLIN.

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COLORED SUPPLEMENT

May Flowering Tulips

Everybody has a natural admiration for the sportsman spirit wherever displayed. We hear sometimes of intending exhibitors in the horticultural shows who, upon ascertaining that they will have to face formidable competition, default their entries. Once entered as proposing to exhibit why not "be game" and see it through, even if prize money and honors are out of reach for the time being? An instance came to our knowledge recently where eight en-

tries in one class dwindled down to three, thus embarrassing the committee of arrangements not a little at the last moment. There is no sporting blood in that sort of business. Don't be a "quitter."

A suggestion to the schedule makers

That the closing days of the flower show are not always wisely provided for by the schedule makers is a fact often

unpleasantly impressed on the visitor. It is a grievous mistake, after the show has been well-advertised and the people have begun to talk for it that on the last day, when the public attendance is liable to be the largest, the hall should present a lot of withered and delapidated flowers—in fact, the ruins only of what had been a creditable and attractive array of beauty. Mark it down for attention next year. Some of the best show classes can be scheduled for the last day without detriment to the earlier days when tables are not infrequently badly overcrowded. Another improvement would be to put the seedling classes on the first day when the florists and fanciers who are especially interested in this department are more likely to be present. If the above suggestions are followed a better show and more general satisfaction will be the result, the labor will be divided for managers and judges and if the rule concerning the removal of all faded material be enforced a long step towards the legitimate purpose of the flower show will have been taken.

Present conditions conducive to business enterprise

One result of the November elections is the assurance that no widespread political readjustment and attendant business derangement is imminent.

and so the prospects are excellent for at least two years more of the same kind of prosperity we have been enjoying. Nothing to compare with the trade of the past year has ever before been experienced in the florist, seed, nursery and allied horticultural industries. Under such auspicious circumstances it is incumbent on every one to diligently "make hay while the sun shines." No horticultural business enterprise if intelligently conducted and vigilantly followed up can fail to succeed under these conditions. Among the essentials of modern business management ample publicity stands in the first rank and no factor counts for more than liberal and continuous advertising. This is something which most people learn with exasperating slowness. In the mind of the novice advertising is an expense to be pared down as much as possible rather than an investment promising good dividends. Those who get frightened and discouraged because a prodigious trade does not immediately follow upon their first few timid advertising ventures are not the sort of men who "get there." The profit from advertising is cumulative and if one will only keep hammering away incessantly he will be sure to win out in good time. There will never be a better time than the present for a display of courage in this respect.

ST. LOUIS FLORISTS' CLUB.

The club held a very interesting meeting on last Thursday afternoon. Thirty-five members and as many visitors were in attendance. These were attracted by the chrysanthemum show during the meeting. This was not as large as expected. Some very fine blooms were staged by J. W. Dunford, The Bentzen Floral Co., Himmer Bros., Edwin Denker and Nathan Smith & Son. The meeting was opened at 3 o'clock by President Irish.

It was decided by unanimous vote to have a flower show next year, and a committee of three, with Frank A. Weber as chairman, was appointed to endeavor to raise a substantial fund among the business men. A. J. Bentzen and W. C. Smith were appointed to act with Mr. Weber.

The judges reported as follows: For 12 blooms white, Himmer Bros., 1st, with T. Eaton; J. W. Dunford, 2d, with T. Eaton; Bentzen Floral Co., 3d, with Alice Byron. Twelve blooms yellow, Himmer Bros., 1st, with Major Bonnalton; 2d, with Col. Appleton; J. W. Dunford, 3d, with Col. Appleton. Twelve blooms pink, Bentzen Floral Co., 1st, with H. J. Baltour, and 2d, with Mrs. Perren; J. W. Dunford, 3d, with D. V. Enguehard. In Nathan Smith & Son's display Sunburst was pronounced the best, and Theo. Roosevelt second, with all the other varieties as very fine.

"Billy" Smith then auctioned off the prize winning blooms which attracted the retailers, who bought at good big prices. After this the meeting adjourned until December 13 at 2 o'clock, when the flower show committee will report. A talk on growing orchids by H. G. Pring, of the Missouri Botanical Garden, is promised.

NEW HAVEN HORTICULTURAL SOCIETY.

The attendance at the show of this society held in Music Hall on November 7 and 8, was a tribute to the excellent display.

The six vases of monstrous blooms of Mrs. Jerome Jones, Mary Inglis, William Duckham, D. V. West, F. S. Vallis and Morton F. Plant shown by Edwin Jenkins of Bellefontaine Gardens, easily captured the Scoville challenge cup and first prize, followed by Henry Cliff second, and Oscar Carlson third, gardeners on the Jennings estates. Besides being first in class 2 group, Robert Paton secured several second prizes; in class 1 group Frank S. Platt Co. were winners. Other successful contestants were A. Bretschneider, Walter Angus, J. P. Lorensen, J. T. Burns, W. Slaek. Yale botanical gardens furnished a splendid group of palms.

There was a creditable display of fruits and vegetables.

James Crawshaw was awarded a certificate of merit for Asparagus Crawshawii. The judges were Messrs. Scott of Tarrytown, N. Y., Jenkins of Lenox, Mass., and McIntosh of Newport, R. I.

CLUB AND SOCIETY NOTES.

Geo. Bayer is the new president and S. Peck, secretary of the Toledo, O., Florists' Club.

W. W. Rawson is a candidate on nomination papers for the office of president of the Massachusetts Horticultural Society against the regular

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committee nominee, Stephen M. Weld. The election will take place on Saturday, November 17, at Horticultural Hall, Boston.

About fifty members of the Detroit Florist Club went to Mt. Clemens one day last week to visit the greenhouse establishments in that section. Pleasant calls were made upon John Breitmeyer's Sons, Wm. Carey, Aug. Von Booslager, Robert Klage, and Wm. Taylor, at all of which places the stock was found to be in excellent condition and abundant hospitality was lavished upon the visitors. A specially interesting subject was the newly installed system of heating by hot water under forced circulation at Mr. Taylor's.

NEWS NOTES.

Julius Roehrs has been elected a councilman of Rutherford, N. J., a well-deserved honor.

John Miller of Salem, O., has purchased the greenhouses on the Baelz property and will tear them down.

The new store of the Carl Hagenberger Floral Co., at Cleveland, O., was formally opened on November 3.

Lockhart, the florist, has moved into the Burt building, 27 North Phelps street, Youngstown, O. George McLean is manager of the business.

E. T. Hammond, an employee of the late S. J. Long, of Petoskey, Mich., succeeds to the business under the title E. T. Hammond & Co.

J. M. Gasser of Cleveland, O., is seeking in a sanitarium restoration to the health that has been broken down by too close application to business.

John Macrae's phenomenal sport from chrysanthemum Yellow Eaton, which was illustrated in our issue of October 27, has been given the name of Golden Dome.

Charles W. Erlanger has taken the store occupied for the past twelve years by Julius Lang at 53 West 30th street, New York, as a wholesale and retail plant establishment.

Alex. Guttman, 43 W. 28th street, New York, reports that he sees strong indications of a phenomenal sale for Pink Enchantress carnation during the coming season, and predicts for that variety the leading position in popularity occupied by Enchantress in the New York market during the past two seasons.

FIRE RECORD.

The greenhouses of Mr. Schroto, Westville, New Haven, Ct., were damaged by fire on Sunday night, November 6. Loss, \$800.

Last Friday morning a very disastrous fire occurred at the plant of the Columbus Pottery Company (O.). Buildings and stock to the value of \$50,000 were destroyed; part of this loss was covered by insurance. The fire started on the outside of the plant in a new kiln, and soon the main building was in flames. This building, comparatively a new one, was 400 feet long by 54 feet in width, and was about half destroyed. The site, buildings and equipment cost \$151,000. About 200 people were steadily employed.

Wm. Elliott & Sons, 201 Fulton St., New York, report remarkable success with their auction sales this year. The stock is the best they have had in many years and the sales for this season are much larger than they were at the same period last year. It looks as though the present season would be a record breaker.

Easter Lily Bulbs

Just received a shipment of **late dug, well matured, plump** Bulbs. If planted now they will come in nicely for next Easter. **Late dug** bulbs are demanded by a large number of extensive Lily Growers, who claim that they produce better plants than the early dug. There is money in Easter Lilies. **Order today.**

LILIUM MULTIFLORUM

	Per	Per
6-8 inch—400 Bulbs in	100	1000
Case	\$3.25	\$30.00
7-9 inch—300 bulbs in		
Case	5.00	45.00

LILIUM LONGICIGANTEUM

	Per	Per
7-9 inch—300 bulbs in	100	1000
Case	\$6.25	\$60.00

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American Pure Culture Spawn
Prices, 12 bricks, \$1.20. \$3.75 per 25 bricks.
50 bricks, \$7.00. \$13.50 per 100 bricks
Send for our Wholesale Price List of
Bulbs, Seeds and Supplies.

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Seed Trade Topics

The reported defeat of the Hon. James W. Wadsworth of Geneseo, N. Y., removes a staunch ally of the seedsmen in their fight against the free seed system. Mr. Wadsworth was chairman of the House Committee on Agriculture and has for years been strongly opposed to this business. In a conversation last winter the writer was assured by Mr. Wadsworth that so long as he was a member of the committee or in Congress in any capacity, the seedsmen would have a "friend at court."

As chairman of the committee his influence was an important factor, and was exerted to the utmost in behalf of the seedsmen. He will occupy his old position during the coming short session of Congress and may be depended upon to throw his influence on the side of the seedsmen, and they should, and undoubtedly will, make strenuous efforts to have the appropriation for the free distribution of seeds omitted from the next appropriation bill.

Mr. Wadsworth's attitude towards the Packers' and Pure Food bills last winter incurred the hostility of the farmers, and many of the agricultural weeklies, led by the Rural New Yorker, strongly opposed his re-election. The gentlemen who are engineering the fight on behalf of the seedsmen, no doubt realize that stopping the appropriation for free seeds is only one step in the fight. The law must be repealed before there can be any assurance that it will not be re-instated again at any time when the agricultural bill is under consideration.

The shortage in peas particularly in the "canners varieties" proves more serious than many seedsmen and canners believed and prices are steadily climbing. What are called "farmer's peas" and which have been aptly characterized as "junk," are still procurable, but the canner who buys such stuff can have little regard for the quality of the goods he packs, and is surely laying up troubles for himself with the farmers. There are those however who look only at the price and on such, argument is wasted. Those seedsmen who have good pedigree peas to sell can get their price and need not sacrifice them in competition with inferior goods. Such peas are still procurable in moderate quantities but are becoming very scarce.

Secretary Frank W. Maas, of the Planters' Seed Company, Springfield, Mo., is visiting New York. He has a new device serviceable for the seed trade which is already popular in the West and promises to be equally so in the East.

Hjalmar Hartmann has arrived safely home in Denmark after a week's sojourn in England en route from New York.

MOVEMENTS OF GARDENERS.

E. Tretheway is now gardener for Mrs. J. B. Malloy of New Haven, Ct. Wm. Tricker is located at Lyndonville, Vt.

David Howells has been appointed general superintendent of the L. C. Tiffany estate at Cold Springs Harbor, L. I., N. Y.

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These are exceptionally useful flowers for Decoration Day and every florist should plant out a few. Once planted they will remain for years, and serve you with a wealth of bloom.

	100	1000
Beauty of America. Creamy white; turning pink.....	\$1 25	\$10 00
Bizarre Tulips. Handsome, rich flowers, with yellow ground; finest mixed.....	85	7 50
Bouton d'Or. Deep golden yellow.....	1 00	9 00
Bridesmaid. Lovely soft pink.....	1 25	10 00
Byblooms. Beautiful late tulips, with white ground, blotched, striped or feathered with lilac, purple, violet, blue or black; finest mixed.....	1 25	10 00
Golden Eagle. Large bright yellow, edged with crimson..	1 35	10 00
Gesneriana (TRUE) Scarlet.....	1 50	12 00
Macrospila. Crimson-scarlet, black center.....	75	6 00
Isabella (Shandon Bells). Carmine rose, shaded creamy white.....	2 00	18 00
Maiden's Blush, or Picotee. Clear white, margined on the edge with pink, pointed and reflexed petals; most beautiful.....	1 50	14 00
Retroflexa. Splendid yellow; reflex petals.....	2 50	22 00

PARROT, OR DRAGON TULIPS

PARROT TULIPS should be more largely grown; their odd colors and fantastic shapes make them ready sellers, and make a unique decoration, when placed in vases or low bowls.

	100	1000
Admiral de Constantinople. Large, red, yellow edge....	\$1 00	\$8 00
Cramoise Brilliant. Rich blood crimson, with bluish markings.....	1 00	9 00
Latea Major. Large, showy yellow.....	1 00	8 00
Markgraaf Von Baden. Red and yellow, orange inside; very showy.....	1 00	9 00
Perfecta. Yellow, striped red.....	1 00	9 00
Superfine Mixed Parrot.....	75	7 00

All above less 10% if cash accompanies order.

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	Per 100	Per 1000
Albicans, primrose, white, beautiful	\$1.75	
Albus Stella, pure white with yellow cup	.65	\$5.00
Ard Righ, yellow, early flowering	1.75	
Bicolor Grandee, large flower, similar to Empress	.90	8.00
Barri Conspicuus, sulphur and claret, fine	.90	8.00
Cynosure, fine for cutting	.65	5.50
Giant Princeps, sulphur white, yellow trumpet, good forcer	.75	6.00
Paper White Grandiflora, 13-15 c. m.	.90	8.50
Chinese Sacred Lilies, per basket (30 bulbs) \$1.25, per bale (120 bulbs) \$4.50		

Lily of the Valley, Begonias, Gloxinias, Fern Balls, and Japan Lilies due to arrive—write for Prices.

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TULIPS Single Bacchos.....	\$11 00
" " Belle Alliance.....	16 00
" " Chrysolora.....	6.75
" " L'Immaculee.....	6.00
" " Kelzerkroon.....	13.50
" " La Reine.....	6.75
" " Pottebakker Scarlet.....	13.00
" " " White.....	11.00
" " " Yellow.....	10.00
" " Yellow Prince.....	7.00
" " White Hawk.....	13.50
" " Mon Tresor.....	12.00
" " Superfine Mixed.....	6.00
" " Parrot Mixed.....	6.00
" " Double Rex Rubrorum.....	12.50
" " Superfine Mixed.....	7.00
NARCISSUS Double Van Slon Double Nose.....	17.00
" " Single Golden Spur.....	14.00
" " Poeticus Ornatus.....	5.00
HYACINTHS White Roman 12/15.....	20.00

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SURPLUS BULBS

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HYACINTHS Bedding and Forcing.

Czar Peter, Baron Van Thuyll, pink, Baron Van Thuyll, blue, La Grandesse, Madam Vanderhoop, Queen of Blues and others.

S. G. HARRIS, - Tarrytown, N. Y.

PHILADELPHIA NOTES.

One of the notable new carnations exhibited at the fall show of the Pennsylvania Horticultural Society was Pink Imperial from John E. Haines, Bethlehem, Pa. It is in the front rank both as to stem and flower, and will be heard from in the future.

William Robertson starts next week on a month's visit to his old home in Scotland. This trip is complimentary by Mr. Jas. W. Pepper whose country seat grounds Mr. Robertson has superintended for many years with conspicuous success.

Jno. McIntyre is the latest recruit to the commission ranks. He is located at 1610 Ranstead street.

An interesting event will take place at the residence of George Anderson, Woodland avenue, on the 29th instant, when his daughter, Georgina, will be married to Albert Raymond Bryant. Miss Katherine Bogan, our informant, who presides over the telephone exchange desk in Michell's and does her share in popularizing that great store, is to be one of the bridesmaids.

A sixty thousand dollar fire occurred next door to Burpee's on Tuesday morning. The papers reported five thousand damage to the seed store but on inquiry we are glad to be informed this was incorrect as there was no damage.

We had a pleasant flying visit from the president-elect of the S. A. F., Mr. W. J. Stewart, on Monday. An informal discussion of plans for the convention of 1907 which takes place here next August was an interesting feature of the call. Vice-president Westcott and a number of the other leading lights took part.

W. A. Hammond of Richmond, Virginia, was a recent visitor as was also Mr. Foster of Westerly, R. I.

An interesting display of cut roses and carnations was staged last Thursday, the third day of the chrysanthemum show. Cottage Gardens, F. R. Pierson Co. and John E. Haines, exhibited some good new varieties of carnations. Wm. Kleinheinz, Samuel Batchelor, Jno. Hedland, and Thomas C. Gaynor, were among the local prize winners in these sections.

Archibald Ribchie, 5th and Wyoming avenues, has just completed three new houses by Lord & Burnham, each 18x80. Mr. Ribchie is the scion of a family at one time quite well known in the gardening world of Philadelphia

OBITUARY.

Charles W. Clark died at his home in Brooklyn, N. Y., on November 4. He was a native of Brooklyn. A widow and three children survive him.

Leonard J. Doyle, son of Wm. E. Doyle, of Boston, died on Tuesday, November 13. The funeral on Thursday was attended by many of the florists of Boston, whose deep sympathy is extended to the stricken family.

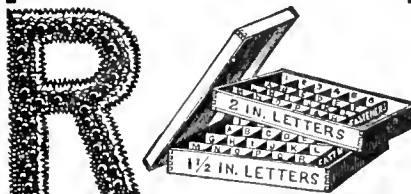
D. Henry Sullivan has been appointed to the position of superintendent of public grounds of Boston made vacant by the death of William Doogue. Mr. Sullivan, who is a son-in-law of Mr. Doogue, has been connected with the department for twenty-one years.

CHRYSANTHEMUM ONGAWA.



Our illustration shows a new seedling chrysanthemum introduced by Nathan Smith & Son, Ongawa by name. In style of growth and form it is like its seed parent, W. R. Church, and in color is intermediate between this variety and the pollen parent, General Hutton, being a golden chamouis. It scored 88 points at Cincinnati on November 3, 1906.

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LILY OF THE VALLEY
CARNATIONS

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Am. Beauty, Fan. & Sp.	25.00 to 35.00	20.00 to 25.00	25.00 to 35.00	20.00 to 25.00
Extra.....	15.00 to 20.00	12.50 to 15.00	20.00 to 25.00	8.00 to 15.00
No. 1.....	8.00 to 12.00	8.00 to 10.00	15.00 to 20.00	5.00 to 8.00
Lower grades.....	4.00 to 6.00	4.00 to 6.00	12.00 to 15.00	2.00 to 4.00
Bride & 'Maid—Fan. & Sp.....	6.00 to 8.00	5.00 to 6.00	8.00 to 10.00	4.00 to 6.00
Ordinary.....	2.00 to 4.00	2.00 to 4.00	4.00 to 6.00	1.00 to 4.00
Golden Gate, Fancy.....	6.00 to 8.00	5.00 to 6.00	8.00 to 10.00	3.00 to 6.00
Ordinary.....	2.00 to 4.00	2.00 to 4.00	4.00 to 6.00	1.00 to 4.00
Liberty, Fancy.....	6.00 to 8.00	5.00 to 6.00	8.00 to 10.00	3.00 to 6.00
Ordinary.....	3.00 to 5.00	2.00 to 4.00	4.00 to 6.00	1.00 to 3.00
Richmond, Fancy.....	6.00 to 8.00	5.00 to 6.00	8.00 to 10.00	3.00 to 6.00
Ordinary.....	3.00 to 5.00	2.00 to 4.00	4.00 to 6.00	1.00 to 3.00
Kaiserio, Carnot, Chatenay, Fancy.....	6.00 to 8.00	5.00 to 6.00	8.00 to 10.00	3.00 to 6.00
Ordinary.....	3.00 to 5.00	2.00 to 4.00	4.00 to 6.00	1.00 to 3.00
CARNATIONS				
Fancy.....	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00	1.50 to 2.00
Ordinary.....	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00	.75 to 1.00
MISCELLANEOUS				
Chrysothemums.....	15.00 to 25.00	5.00 to 40.00	5.00 to 35.00	3.00 to 12.00
Cattleyas.....	..... to 50.00	..... to 50.00	..... to 50.00	40.00 to 50.00
Lilies.....	12.00 to 15.00	..... to 15.00	15.00 to 20.00	8.00 to 12.00
Violets.....	..... to 1.00	..... to 1.00	1.00 to 1.50	.25 to .60
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Dahlias.....	..... to 1.00	..... to 1.00	..... to 1.00	..... to 1.00
Tuberose.....	..... to 1.00	..... to 1.00	..... to 1.00	..... to 1.00
Mignonne.....	..... to 1.00	..... to 1.00	..... to 1.00	1.00 to 2.00
Adiantum Cuneatum.....	.75 to 1.00	1.00 to 1.50	1.00 to 1.50	.50 to 1.00
Croweanum.....	..... to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax.....	..... to 12.00	..... to 12.50	15.00 to 20.00	8.00 to 12.00
Asparagus Plumosus, strings..... to 50.00	25.00 to 50.00	50.00 to 50.00 to 50.00
" " & Sprenger bunches	25.00 to 35.00	25.00 to 50.00	50.00 to 50.00	20.00 to 50.00

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A Specialty.....

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GROWER of

CUT FLOWERS

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E. A. BEAVEN, Evergreen, Ala.

CUT FLOWER MARKET REPORTS

BOSTON Business, on the whole, is rather quiet, but not more so than last year. Demands are light, both local and out-of-town, and no important events are in immediate prospect. Chrysanthemums are in abundance, as also are roses and carnations. The latter are improving in quality. Violets are not so plentiful. The market will probably hold about as it is for the next week or ten days, or until Thanksgiving influences begin to work.

BUFFALO The weather during the past week has been fairly clear, averaging considerably warmer. As a consequence roses, carnations and chrysanthemums were more plentiful; in fact, the ordinary varieties of the latter were too plentiful to hold prices firm and a good many were carried over. Some excellent stock of Mrs. Weeks, Appleton, Maud Dean, Bonnaffon and Liger were had and the fancy stock moved freely. Again, the coolers were over loaded with roses of all kinds, except Beauties. Prices lowered considerably and many could not be moved at any price. In carnations, Enchantress was the leader, but some excellent stock was had of Red Lawson; in White Lawson many were of short stems and poor quality. Violets and lily of the valley had good demand. Lilies, smilax and adiantum were on the quiet list.

CHICAGO Stock is still plentiful in all grades and prices a lower although adverse weather has shortened up the product considerably. The later varieties in quality and prices range a little below normal. About the only thing that is scarce is lily of the valley. Business is good generally and stock is moving fairly well. Shipping orders are not as heavy as usual but the general tone of the market is satisfactory.

CINCINNATI. Business has been fairly good, but the supply has been more than sufficient. Early chrysanthemums brought good prices and sold fast, but the outlook for disposal of mid-season stock is not bright. Small and medium sized blooms sell better than the fancies. In order to move the stock, prices have been cut in halves. Roses are plentiful, but they do not go begging during the chrysanthemum season as in former years. Carnations are improving rapidly. Enchantress heads the list, not that they are better than some other varieties, but they can be had when wanted. Violets in limited quantities have arrived and when good sell at sight. Narcissus, the forerunner of bulbous stock, has made its appearance.

COLUMBUS Chrysanthemums are having a great run, and what is even better good prices have been obtained

right through the season. The coming week will also be a banner one, as it is not only chrysanthemum show week, but the Livingston Seed Company will also hold their yearly exhibition. The latter exhibition has come to be a trade feature of much importance, as it lasts five days, and always gives business a great boom just before Thanksgiving. I need say little this week as regards the rest of the market, for very little change has taken place.

DETROIT Business has continued good with plenty of chrysanthemums to meet all calls. There is a shortage on carnations, but roses of all grades are equal to the demand.

INDIANAPOLIS Business was not so good as the week previous, still it could not be called dull. A good deal was going on in the social line. Chrysanthemums are finer every day as the mid-season varieties gradually take the place of the early bloomers. Strange to say they have not yet crowded the market on other stock as they usually do at this time of the year. Roses are holding their own so far. Fancy stock in Bridesmaid, Richmond, Killarney and Beauty is commanding a good price. Fancy carnations are not too plentiful and sell out clean every day. Plenty of good lily of the valley is to be had while violets are still scarce and poor.

LOUISVILLE Business conditions the previous week were about up to the average. Chrysanthemums are in great supply of all necessary colors, and sell well. Carnations can now be had in more desirable quantities, and find a good demand. Roses sell fairly well and are abundant. Lily of the valley, violets and lilies move steadily and are up to the average.

NEW YORK This market is dominated by an unusually large cut of chrysanthemums. Some of the varieties which were ordinarily due ten days ago are now coming with the later kinds. There is at present a large proportion of white. Ivory, Duckham, Mrs. Black, white and yellow Bonnaffon, Collingfordii Schrimpton, Black Hawk, Chadwick white and yellow and Englehard are a few of the varieties in full swing. The quality is excellent. It is needless to say that prices are unsteady and stock is cleared only by meeting the buyer's figures. Fortunately the supply of roses is only normal, but averages are low. Carnations are coming in freely and do not move readily except the choicest stock. There appears to be plenty of lily of the valley for all demands. Cattleyas sell well. Oncidiums are scarce. Violets are in fine shape but the call

for them is irregular—the tendency is toward higher prices during the next week or two. Mignonette and antirrhinums are in the market before their time and get scant attention. Green stock is plentiful.

PHILADELPHIA Normal conditions prevailed in this market the past week. Ordinary and medium chrysanthemums were inclined to be a little glutty but fancies were in good demand and cleaned out well. In roses the best seller was American Beauty, which is of excellent quality and more plentiful. All other varieties of roses were a bit sluggish. Fancy carnations moved actively but lower grades dragged a little. Supplies of orchids shortened up considerably. Violets are still on the scarce side and prices stiff. Bouvardia and gardenias are a welcome addition to the regular list.

TWIN CITIES The mild weather is bringing chrysanthemums a bit faster than the quiet trade demands. Carnations are getting better and easily bring a good price. Roses are less in demand, though prices are higher, and Beauties are scarce. Violets go quickly at a high figure.

WASHINGTON All available space in the stores is full of chrysanthemums, and they keep coming. Sales are fair but not so good as they should be considering the quality of bloom. While election week in the states may bring activity to the flower market, it has the opposite effect in Washington, where the only real interesting elections that are ever held are in the spring, when the Daughters of the American Revolution meet. The absence of the President and Mrs. Roosevelt under unusual conditions, has a sobering effect on the remnant of society that is in the city, and there is very little entertaining. Thanksgiving is a ray of light in a rather sombre atmosphere. But the social, as well as other wheels will begin to "go round" when Congress resumes its session. About that time the gentle florist will get busy.

CATALOGUES RECEIVED.

A. L. Randall Co., 21 E. Randolph street, Chicago, are sending out their first florists' supply catalogue. It is very complete, finely illustrated and should be close at hand in every well-regulated florist store. Send for it and tell them you did it on our advice.

George Morey has reopened his flower store at 203 Washington St., Haverhill, Mass.

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MADISON SQ.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Nov. 10 1906	First Half of Week beginning Nov. 12 1906		Last Half of Week ending Nov. 10 1906	First Half of Week beginning Nov. 12 1906
Roses			Carnations, Fancy	2.00 to 4.00	2.00 to 4.00
Am. Beauty, fan and sp.	12.00 to 25.00	12.00 to 25.00	Carnations, Ordinary	1.60 to 1.50	1.00 to 1.50
" extra	8.00 to 12.00	8.00 to 15.00	Chrysanthemums	3.00 to 25.00	3.00 to 25.00
" No. 1	5.00 to 8.00	5.00 to 8.00	Cattleyas	40.00 to 50.00	40.00 to 50.00
" Lower grades	1.00 to 3.00	1.00 to 3.00	Lilias	10.00 to 12.00	10.00 to 12.00
Bride & "Maid, fan and sp.	4.00 to 6.00	4.00 to 6.00	Lily of the Valley	1.00 to 4.00	1.00 to 4.00
" Ordinary	.50 to 2.00	.50 to 2.00	Violets	.50 to 1.00	.50 to 1.00
Golden Gate, fancy	4.00 to 6.00	4.00 to 6.00	Tuberoses	.50 to 2.00	.50 to 2.00
" ordinary	.50 to 2.00	.50 to 2.00	Mignonette	1.00 to 3.00	1.00 to 3.00
Liberty, fancy	5.00 to 8.00	5.00 to 8.00	" Cuneatum	.50 to .75	.50 to .75
" ordinary	1.00 to 3.00	1.00 to 3.00	" Croweanum	1.00 to 1.50	1.00 to 1.50
Richmond, fancy	5.00 to 8.00	5.00 to 8.00	Smlax	8.00 to 10.00	8.00 to 10.00
" ordinary	1.00 to 3.00	1.00 to 3.00	Asparagus Plumosus	25.00 to 35.00	25.00 to 35.00
Kaiserin, Carnot, Chateau, fancy	4.00 to 6.00	4.00 to 6.00	" & Sprenger, bunches	15.00 to 25.00	15.00 to 25.00
" " ordinary	.50 to 2.00	.50 to 2.00			

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Manager

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Metal Designs, Baskets, Wire Work & Novelties
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SEND ME YOUR ORDERS
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GALAX, VIRGINIA
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NEW CROP BRONZE AND GREEN GALAX
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Fresh Northern, \$1.00 per 1000.
LYRATA, the best substitute for Smilax, \$7.00 per case.
Headquarters for all **FLORISTS' SUPPLIES**. Wire Designs, Cut Wire, Letters, Immortelles, Cycas Leaves, Wheat Sheaves, Ribbons, Corrugated Boxes, etc.
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WHOLESALE FLOWER MARKETS. — PER 100. — TO DEALERS ONLY.

	CINCINNATI November 13	DETROIT November 10	BUFFALO November 12	PITTSBURG November 12
ROSES				
Am. Beauty, Fan, and Sp.	30.00 to 20.00	40.00 to 30.00	50.00 to 25.00	25.00 to 15.00
Extra	20.00 to 15.00	25.00 to 20.00	35.00 to 25.00	15.00 to 10.00
No. 1	15.00 to 10.00	20.00 to 15.00	25.00 to 20.00	10.00 to 5.00
Lower grades	8.00 to 5.00	10.00 to 6.00	15.00 to 8.00	4.00 to 2.00
Bride and Maid - Fan, and Sp.	5.00 to 2.00	6.00 to 4.00	8.00 to 5.00	6.00 to 4.00
Ordinary	2.00 to 1.00	4.00 to 2.00	6.00 to 3.00	2.00 to 1.00
Golden Gate, Fancy	5.00 to 2.00	6.00 to 4.00	8.00 to 5.00	6.00 to 4.00
Ordinary	2.00 to 1.00	4.00 to 2.00	6.00 to 3.00	2.00 to 1.00
Liberty, Fancy	5.00 to 2.00	6.00 to 4.00	8.00 to 5.00	6.00 to 4.00
Ordinary	2.00 to 1.00	4.00 to 2.00	6.00 to 3.00	2.00 to 1.00
Richmond, Fancy	5.00 to 2.00	6.00 to 4.00	8.00 to 5.00	6.00 to 4.00
Ordinary	2.00 to 1.00	4.00 to 2.00	6.00 to 3.00	2.00 to 1.00
Kaiserin, Carnot, Chatenay, Fancy	5.00 to 2.00	6.00 to 4.00	8.00 to 5.00	6.00 to 4.00
Ordinary	2.00 to 1.00	4.00 to 2.00	6.00 to 3.00	2.00 to 1.00
CARNATIONS				
Fancy	3.00 to 1.00	4.00 to 2.00	5.00 to 3.00	2.50 to 1.50
Ordinary	1.00 to .50	2.00 to 1.00	3.00 to 2.00	1.00 to .50
MISCELLANEOUS				
Chrysanthemums	4.00 to 2.00	6.00 to 3.00	8.00 to 4.00	5.00 to 2.50
Cattleyas	10.00 to 5.00	15.00 to 7.50	20.00 to 10.00	15.00 to 7.50
Lilies	10.00 to 5.00	15.00 to 7.50	20.00 to 10.00	15.00 to 7.50
Violets	1.00 to .50	1.50 to .75	2.00 to 1.00	1.50 to .75
Lily of the Valley	3.00 to 1.50	4.00 to 2.00	5.00 to 2.50	4.00 to 2.00
Tuberose	10.00 to 5.00	15.00 to 7.50	20.00 to 10.00	15.00 to 7.50
Mignonette	1.00 to .50	1.50 to .75	2.00 to 1.00	1.50 to .75
Adiantum Cuneatum	1.00 to .50	1.50 to .75	2.00 to 1.00	1.50 to .75
Crocus	1.00 to .50	1.50 to .75	2.00 to 1.00	1.50 to .75
Smilax	12.50 to 6.25	17.50 to 8.75	22.50 to 11.25	17.50 to 8.75
Asparagus Plumosus, strings	50.00 to 25.00	75.00 to 37.50	100.00 to 50.00	75.00 to 37.50
" & Sprengeri, bunches	25.00 to 12.50	37.50 to 18.75	50.00 to 25.00	37.50 to 18.75

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BULBS AND TUBERS—Continued.

- H. F. Michell Co., Philadelphia. For page see List of Advertisers. H. E. Fiske Co., 12 & 13 Faneuil Hall Sq., Boston. Forcing Bulbs. For page see List of Advertisers. Johnson Seed Co., 217 Market St., Phila. High Grade Bulbs. Arthur T. Boddington, 342 W. 14th St., New York. Late Tulips, Dutch Hyacinths.

CARNATIONS.

- E. H. Pye, Upper Nyack, N. Y. For page see List of Advertisers. The H. Weber & Sons Co., Oakland, Md. Carnation Mabelle. For page see List of Advertisers. S. S. Skidelsky, 824 N. 24th St., Phila. Rose Pink Eucharantess. For page see List of Advertisers. Chicago Carnation Co., Joliet, Ill. For page see List of Advertisers. J. W. Howard, Somerville, Mass. Carnation Debutante. For page see List of Advertisers.

CHRYSANTHEMUMS.

- Nathan Smith & Son, Adran, Mich. Chrysanthemum October Frost. For page see List of Advertisers. W. Wyman, Swampscott, Mass. Chrysanthemum Stock Plants.

CONIFERS.

- John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng. For page see List of Advertisers. Palisades Nurseries, Sparkill, N. Y. For page see List of Advertisers.

CUT FLOWER BOXES.

- Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis. Welch Bros., 226 Devonshire St., Boston. For page see List of Advertisers. Edwards Folding Box Co., Philadelphia. For page see List of Advertisers.

CYCLAMEN SEEDS.

- R. & J. Farquhar & Co., 6 & 7 So. Market St., Boston. H. F. Michell Co., Philadelphia.

DAHLIAS.

- David Herbert & Son, Atco, N. J. For page see List of Advertisers. W. P. Lothrop, Brockton Dahlia Farm, E. Bridgewater, Mass. For page see List of Advertisers.

DECORATIVE PLANTS.

- A. Leuthy & Co., Roslindale, Mass. For page see List of Advertisers. Julius Roehrs, Rutherford, N. J. For page see List of Advertisers.

DRACAENAS.

- Dracaena terminalis from bench, fine \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

FERNS.

- A. Leuthy & Co., Roslindale, Mass. For page see List of Advertisers. H. H. Barrows & Son, Whitman, Mass. Nephrolepis Whitmanii. For page see List of Advertisers. H. N. Eaton, So. Sudbury, Mass. Boston Ferns. For page see List of Advertisers. Wm. W. Edgar Co., Waverley, Mass. For page see List of Advertisers. J. A. Peterson, McHenry Av., Cincinnati, O. Boston Ferns. For page see List of Advertisers. Wm. C. Smith, 61st & Market Sts., Phila. For page see List of Advertisers. Benj. Connell, West Grove, Pa. For page see List of Advertisers.

FICUS.

- Wm. C. Smith, 61st & Market Sts., Phila. For page see List of Advertisers.

Table listing various horticultural businesses and their page numbers, including entries for Allen J. K., Barrows H. H. & Son, Caldwell C. W., etc.

Advertisements under this head, one cent a word. Initials count as words. Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

ACCOUNTANT. R. J. Dysart, 28 State St., Boston. For page see List of Advertisers.

ADIANTUMS. Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Laugdon, D. C. Adiantum Farleyense, 2 1/2-in. strong stuff, for growing on, or for Fern dish, \$15.00 per 100; \$140.00 per 1,000. J. A. Peterson, Westwood, Cincinnati, O.

AGRICULTURAL IMPLEMENTS. Thos. J. Grey & Co., 32 S. Market St., Boston. For page see List of Advertisers. Joseph Breck & Sons, 51 and 52 N. Market St., Boston. For page see List of Advertisers.

ARAUCARIAS. Godfrey Aschmann, 1012 Ontario St., Philadelphia. For page see List of Advertisers. A. Leuthy & Co., Roslindale, Mass. For page see List of Advertisers.

ASPARAGUS. James Crawshaw, 403 Plainfield St., Providence, R. I. Asparagus Crawshnwil. For page see List of Advertisers. Asparagus plumosus nanus and Sprengeri, 2 1/2-in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio. Asparagus Plumosa, 2 in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Elliott St., Buffalo, N. Y.

AZALEAS. W. W. Edgar Co., Waverley, Mass. For page see List of Advertisers. F. W. O. Schmitz, Prince Bay, N. Y.

BAMBOO STAKES. Yokohama Nurseries, 31 Barclay St., N. Y. For page see List of Advertisers.

BEGONIAS. E. A. Butler & Son, Niagara Falls, N. Y. Begonia Gloire de Lorraine. Begonias Gloire de Lorraine and Turnford Hall, propagated from leaf cuttings, \$15 00 100; \$140.00 1000; 4-in., \$40.00 100. Cash. J. A. Peterson, Westwood, Cincinnati, O.

BULBS AND TUBERS. Joseph Breck & Sons, 47-54 N. Market St., Boston Dutch Bulbs. For page see List of Advertisers. J. M. Thorburn & Co., 33 Barclay St., New York. Lily Bulbs. For page see List of Advertisers. Yokohama Nurseries, 31 Barclay St., N. Y. Lily Bulbs. For page see List of Advertisers. James Vick's Sons, Rochester, N. Y. For page see List of Advertisers. A. T. Boddington, 342 W. 14th St., N. Y. For page see List of Advertisers. The E. R. Pierson Co., Tarrytown-on-Hudson, N. Y. Japan Longiflorum, Candidum, Narcissi, Dutch Bulbs. Rickards Bros., 37 East 19th St., New York. Forcing Bulbs. For page see List of Advertisers.

Is Your Name In The Above List? If Not, Why Not?

FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226 228 1-2 Bowery, New York.

FLORISTS' FERTILIZER.

A sample 100-lb. bag of Blatchford's Plant Grower and Land Renovator Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address The Barwell Agricultural Works, Waukegan, Ills. Established at Leicester, England in 1890.

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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C. W. Caldwell, Mgr., Galax, Va.
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King Construction Co., N. Tonawanda, N. Y.
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Hardy Herbaceous Perennials.

Eastern Nurseries, Jamaica Plain, Mass.
Herbaceous Plants.
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HIBISCUS SYRIACUS MEEHANII.

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Fruitland Nurseries, Augusta, Ga.

HORICUM

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KENTIAS.

Godfrey Aschmann, 1012 Ontario St., Philadelphia.
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A. Leuthy & Co., Roslindale, Mass.
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Young & Nugent, 42 W. 28 St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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LILIUM HARRISII.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

LILY OF THE VALLEY.

John Scheepers & Co., 2-6 Old Slip, N. Y.
Excellent.

MUSHROOM SPAWN.

Cochran Mushroom & Spaw Co.,
911 Chemical Bldg., St. Louis, Mo.
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NICO-FUME.

Ky. Tobacco Product Co., Louisville, Ky.

NICOTEN APHIS PUNK.

Neoline Mfg. Co., St. Louis, Mo.
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NURSERY STOCK.

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American Nursery, Bagshot, England.
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Bay State Nurseries, N. Abington, Mass.
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Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.
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Palisades Nurseries, Sparkill, N. Y.
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1608-1618 Ludlow St., Phila.

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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Siggers & Siggers, Washington, D. C.
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PEONIES.

Edward Swayne, West Chester, Pa.
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Fine collection of Best Peonies. Complete Peony and Phlox Manuals, 25 cents each. C. S. Harrison's Select Nursery, York, Neb.

PHOENIX ROEBELINI.

John Lewis Childs, Floral Park, N. Y.
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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Baudisch & Co., Union Hill, N. J.
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Primula Obs. Grandiflora, 2 1/2 pots \$3.00 per 100. Edward Allen, Plainfield, Conn.

PRIVET.

Valley Farms Nursery Co., Brookfield Centre, Mass.

RHODODENDRONS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES.

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Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pye, Upper Nyack, N. Y.
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Benj. Connell, West Grove, Pa.
Crimson Ramblers.
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F. W. O. Schmitz, Prince Bay, N. Y.
Baby Ramblers.

American Beauties, 2-in., \$55.00; 3-in., \$8.00 1000. Cash. J. Henry Bartram, Lansdowne, Pa.

Roses, Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1/2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

SEEDS.

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Cauliflower and Cabbage Seed.
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Giant Cyclamen Seeds.
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Philadelphia.
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Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

SHEEP MANURE.

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Wizard Brand.

SHEET MOSS.

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WILD SMILAX.

E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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SMILAX PLANTS.

R. Kilbourn, Clinton, N. Y.

SPHAGNUM MOSS.

Live Sphagnum moss, orchid pest and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

STEAM TRAP.

E. Hippard, Youngstown, O.

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The Chicago Lifter.

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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

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Pittsburg, Pa.
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Pittsburg Florists' Exchange, 228 Diamond
St., Pittsburg, Pa.

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AT AUCTION Every Tuesday and Friday at Noon...

Hardy Dwarf and Tree Roses, also Conifers, Hydrangeas, Boxwood, Magnolias, Pæonies, Bulbs, etc.

W. ELLIOTT & SONS, 201 Fulton St., N. Y.

New Offers in This Issue.

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WHOLESALE FLORISTS.

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WHOLESALE FLORISTS.

Poehmann Bros. Co., 35 Randolph St.,
Chicago.
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John Waterer & Sons, Ld. AMERICAN NURSERY BAGSHOT, ENGLAND

have the finest stock of recognized Hardy Rhododendrons, Azaleas, An-
dromedas, high class Evergreens and specimen Conifers. Ask for special list
of plants grown for the American trade.

John Waterer & Sons are the great exhibitors of Rhododendrons in
London.

COMPLETE STOCK OF

Fine, Strong Herbaceous Plants ORDER NOW EASTERN NURSERIES M. M. DAWSON, Manager Jamaica Plain, Mass.

ARTHUR COWEE GLADIOLUS SPECIALIST

Meadowvale Farm

BERLIN, N. Y.

HAS UNDER CULTIVATION

OVER 100 ACRES

COMPRISING

The Best Mixtures, Collections
and Named Varieties in
Existence.

Write for 1906 Catalog

LADY GAY AND

HARDY GARDEN ROSES

in choice varieties. Field grown plants,
first quality stock including Frau Karl
Druschki. New Hardy Hybrid Tea
Dean Hole. Killarney and Souvenir
de Pierre Notting. Herbaceous
Pæonies. Hollyhocks and Phlox.

Catalogue mailed on request.

M. H. WALSH

ROSE SPECIALIST WOODS HOLE, MASS.

THE CHRYSANTHEMUM, by
Arthur Herrington. The most com-
plete and practical book on the cul-
tivation of the chrysanthemum pub-
lished for Americans. Illustrated.
Price 50c. postpaid. Horticulture Pub.
Co., 11 Hamilton Place, Boston.

As Lease of Land Expires Next Spring Stock Must be Sold at Sacrifice Prices.

All first quality, bushy.

	Per 1000
Berberis Thunbergii, 18 to 24 in.	\$40 00
" " " 24 to 30 in.	50 00
Deutzia Gracilis, 12 to 18 in.	35 00
Ligustrum Itoya, 18 to 24 in.	28 00
" " " 2 to 3 ft.	35 00
Spiraea Van Houttei, 3 1/2 to 4 ft.	45 00
Kerria Japonica fl. pl., 3 ft.	45 00
Rhodotypos Kerrioides, 2 to 3 ft.	50 00
Viburnum Tomentosum, 18 to 24 in.	50 00
" " " 2 1/2 to 3 ft.	75 00
" " " 3 1/2 to 4 ft.	100 00

And 60,000 other shrubs.

Write for particulars and prices to
THE RHODE ISLAND NURSERIES,
NEWPORT, R. I.

PHOENIX ROEBELINI

BEAUTIFUL, GRACEFUL, USEFUL

	Each	10	100
7-inch POT PLANTS.	\$4.00	\$35.00	\$300.00
4-inch " "	1.00	9.00	80.00

WELL ROOTED SEEDLINGS

	100	1000	10,000
4 to 5-inch HIGH.	\$5.00	\$40.00	\$300.00

JOHN LEWIS CHILDS
Floral Park, - - - New York

SPECIMEN NURSERY STOCK

Deciduous Trees and Shrubs, Evergreens,
Rhododendrons, Azaleas, over one hundred
(100) acres of the choicest varieties.

SEND FOR FREE LIST

COTTAGE GARDENS CO.
Queens, Long Island, - Ne

POT MAKERS FOR 140 YEARS
A. H. HEWES & Co. Inc. CAMBRIDGE MASS.
 KINDRY EVERE OF WARE ST. FLORIST

**It's Pushing the
 Hot Water Around
 All Right**

for the wise growers who installed it this season. Don't you wish it was doing it for you these cold nights?

THE
Holly-Castle Co. Circulator
 170 Summer St., Boston

NIKOTEEN APHIS PUNK

THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
 STRONGEST AND MOST UNIFORM

PRICE 60¢ PER BOX OF 12 LONG SHEETS \$6.50 PER CASE OF 12 BOXES

NIKOTEEN

LIQUID
 FOR SPRAYING OR VAPORIZING
 PRICE \$1.50 PER PINT BOTTLE \$13.00 PER CASE OF 10 PINT BOTTLES

NICOTINE MFG. Co. St. Louis Mo.

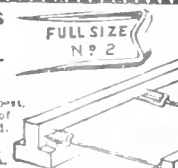
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 See the Point
PEERLESS
 Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
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GREENHOUSES BUILDING AND PROJECTED.
 Additions.

Waterbury, Ct.—W. E. Sessions, range of houses.
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At once a first-class grower of roses, to take charge of rose section; a man that has business ability, and not afraid of work; must have first-class reference, sober and steady; state salary, experience and reference in first letter; if you can't fill above bill don't answer; if satisfactory, must be ready to come at once.

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Wholesale Greenhouse Plant, 40,000 sq. ft. steam heat, well stocked, carnations, roses, smilax. Not a cheap, run-down place, everything in good order, brisk trade. Good tea-on for selling. Located conveniently to Schenectady, Troy and Albany. Investigate and address.

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POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—Private place preferred as head gardener. Married; two children; good reference. A. N., care R & J. Farquhar Co., Boston.

SITUATION WANTED by thoroughly experienced rose grower. Single, sober and reliable. H. E., care HORTICULTURE, 11 Hamilton Place, Boston.

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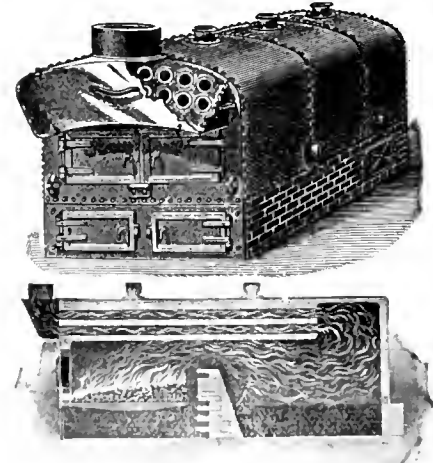
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 35 Erie St., CHICAGO.



Boilers made of Steel Boiler Plate; shell, fire-box sheets and heads of steel; water space all around front, sides and back. Write for information.

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 32 feet or longer
HOT BED SASH
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ERECTED AND EQUIPPED COMPLETE IF DESIRED

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Packed in small crates, easy to handle.		Price per crate	
1500 2 1/2	10.00	120 7 in.	\$4.88
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144 6	.16	12 14	4.80
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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 percent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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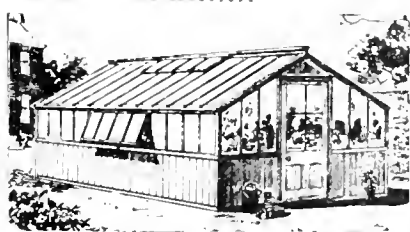
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simply because a cheap house never can be cheap. There are ways of cheapening a house, and still in no way impairing its endurance — its growing powers — we understand those ways — but a planing mill — a carpenter surely doesn't — Buy of the firm who understands — and besides, you'll have pleasant dealing.



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The Premier Idea.

The Practical Side
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is the one that should interest you. It's the one that we study most anyway. Premiers are the most practical houses made because they are durable, portable and convenient.

Besides that they only cost one third the usual amount.

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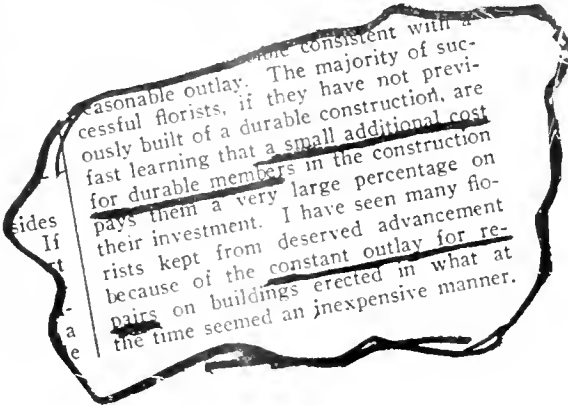
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JOHN A. SCOLLAY
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THE VITAL POINT.



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So many florists lose sight of the point that it's not what a house costs now — but the tremendous reduction in future repair costs and almost unlimited life of the Iron Frame Construction that counts. A construction that is absolutely self sustaining, and in no way depends on the endurance of any wooden members. When any wooden part does decay, it weakens only that immediate spot and affects no other part of the house. Repairs are an easy matter.

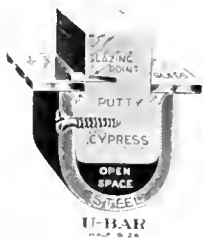
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Greenhouse Designers and Manufacturers.

1133 Broadway, corner 26th St., **NEW YORK.**

BOSTON BRANCH, 819 Tremont Building.

Get firm hold of that phrase — "constant outlay for repairs." It means the difference between the long headed man and the short sighted one. Send for Iron Frame Circular.



YOUR greenhouse can only be as long lived as the life of the eave — the point where the ordinary house first rots out because the condensation gets

into the joints — the very point where greatest strength is required — the really vital spot in the entire construction. The U-Bar house has no eave joint — no gutters and plates and because a curved surface is always stronger than an angle (unless heavily braced) the curved eave makes the most rigid house — not only the most rigid but an entire freedom from joints to decay, gutters or plates to cast shade. Send for our new catalog.



Pierson U-Bar Company, Designers and Builders U-Bar Greenhouses, Metropolitan Building, Fourth Avenue and 23rd Street, New York.

HORTICULTURE

Vol. IV. NOVEMBER 24, 1906 No. 21



FIRST PRIZE GROUP AT LENOX, MASS.
By F. Heeremans.

Devoted to the
**FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,**
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00

NOV 26 1906

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 STILL RETAIN THEIR SUPREMACY AS CARNATION GROWERS
 15 entries at Chicago won us 15 first prizes. Our stock is healthy and the cuttings will be well rooted. January delivery on:—
 Red Riding Hood (Scarlet) \$12.00 per 100 \$100.00 per 1000 Aristocrat (Bright Cerise) \$12.00 per 100 \$100.00 per 1000
 White Perfection 6.00 " " 50.00 " " Rose Pink Enchantress 7.00 " " 60.00 " "
 AND MANY OTHERS. SEND FOR LIST.

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STOCK PLANTS

WHITE
 Early—George S. Kalb, Polly Rose, Willowbrook.
 Mid-Season—Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Alice Bryon, Eureka.
 Late—Mrs. McArthur, Timothy Eaton, W. H. Chadwick.
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 Early—Glory of the Pacific.
 Mid-Season—Pink Ivory, J. K. Shaw, Adela, Mrs. Perrin, Ethelyn, A. J. Balfour, Wm. H. Duckham, Dr. Enguehard, Marlon Newell.
 Late—Maud Dean, Lavender Queen, The Harriott.
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 Early—Monrovia.
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BRONZE
 Kate Broomhead, Mrs. Duckham.
 Guaranteed to be strong, healthy plants, \$1.00 per doz., \$6.00 per 100.

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As an Inducement we will slaughter 5000 at these Rates:
 Polly Rose, Merstham Yellow, Robinson, Appleton, Duckham, Enguehard, Nellie Pickett, Leila Filkins, Bonaffon white and yellow, Maud Dean, Yellow Eaton
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 Undivided Stools. No less than 50 at 100 rate, or 250 at 1000 rate.
NOVELTIES: Alice Byron, Clem. Touse, Jeanne Nonin, Roi d'Italie, \$5 per 100.
 Stock Limited. Order Quick.
CASH. HARLOWARDEN GREENHOUSES, Greenport, N. Y.

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COLOR—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most pinks, the brightest sun does not injure the color. **SIZE**—3 to 4 inches in diameter when established. **ODOR**—Pleasing, but not strong. **STEMS**—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. **HABIT, etc.**—A very quick, a tive grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires support & very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. **PRODUCTIVENESS**—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. **Stock Limited. Delivery January 5th to 10th and later.**
 Price \$12.00 per 100, \$100.00 per 1000
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ROSE PINK ENCHANTRESS
 It is both free and "fancy"—a sure money-maker.
 Price \$7.00 per 100; \$60 per 1000
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	100	1000
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KAISERIN " "	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
ENCHANTRESS	3.00	25.00
QUEEN and LAWSON	2.00	15.00

E. H. PYE, FLORIST
 UPPER NYACK, N. Y.
GOVERNOR HERRICK
 THE NEW VIOLET
 Originated and introduced by
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 We have the following stock in the finest condition to plant, and now is the time to plant.
 2 1/2 inch at \$2.00 per doz., \$15.00 per doz and \$75 per 1000
 4 1/2 " " 2.50 " " 12 " " " 75 " " 1000
 It will pay you. Try it. Order at once.

Geraniums
 Rooted Cuttings in any quantity after Nov. 15, at moderate prices. Send for price list.
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 Mention Horticulture when you write

DAHLIAS. Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.
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 Successors to L. K. Peacock, Inc.
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PINK IMPERIAL
 This is of a pleasing pink color, and cannot fail to become a favorite with every grower. It is a sport from Imperial, and has all the good qualities of that variety; its color is magnificent.
These two varieties are my own origination
 Prices: Selected cuttings, delivery commencing in December, 1906.
 \$2.50 per doz., \$12.00 per 100, \$100.00 per 1000
 50 at 100 rates, 250 at 1000 rates.
 5% discount for cash with order.
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in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.
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 Strong, healthy, well-rooted cuttings, ready Dec. 1st; price \$2.50 per hundred or \$20.00 per thousand.
 Try our strong, healthy, western grown wool from the best corn soil in Illinois.

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Mrs. Laogtry		10.00
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MINIATURE, OR DUTCH ROMANS, fine for pans or for cutting, can also be used very satisfactorily for bedding; very cheap and very profitable.

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Where special varieties are wanted, write for price.		
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is the name. You can't find a better carnation. Rooted Cuttings ready for delivery after January 1, 1907.

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 VINCA, mixed, (rose white with red eye, pure white) 2 1/2 in. pots, \$2.00 per 100
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\$6.00 to \$10.00 per 100

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- NO. 3 HOUSE. 80x20 feet, 16x24 glass. 800 feet wrought iron pipe, 2 to 3 inches. Valves, fittings, also water pipes. Ventilating apparatus.
- NO. 4 HOUSE. 70x20 feet, 9x14 glass. 800 feet wrought iron pipe, 3 inches. Valves, fittings, also water pipes. Ventilating apparatus.
- NO. 5 HOUSE. 80x28 feet, 16x24 glass. 1125 feet wrought iron pipe, 2 to 2½ inches. Valves, fittings, also water pipes. Ventilating apparatus.

- NO. 6 HOUSE. 70x12 feet, 9x14 glass. 500 feet wrought iron pipe, 2 inches. Valves, fittings, also water pipes. Ventilating apparatus.
- NO. 7 HOUSE. 80x12 feet, 9x12 glass. 450 feet wrought iron pipe, 3 to 4 inches. Valves, fittings, also water pipes. Ventilating apparatus.
- NO. 3 HOUSE. 80x12 (sash house). 375 feet wrought iron pipe, 2 to 3 inches. Valves, fittings, also water pipes. Ventilating apparatus.
- NO. 9 HOUSE. 160x28 feet, 16x24 glass. 1800 feet wrought iron pipe, 2 to 3 inches. Valves, fittings, also water pipes. Ventilating apparatus.

N. F. MCGARTHY & CO.,

Horticultural Auctioneers
84 Hawley St., BOSTON

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Azatea Mollis—Elegant bushy plants, 15 inches high, well set with buds, fine for early forcing, \$4.50 per dozen, \$35.00 per 100.

Lilacs Pot Grown Charles X and Marie Legraye—Good shaped plants well set with buds, \$6.00 per dozen, \$45.00 per 100.

⌘ **Indian Azaleas**—To close out we are still offering at import prices a full assortment of standard varieties.

⌘ **10 to 12 inch Crowns, \$4.50 per dozen, \$35.00 per 100**

12 " 14 " " 6.00 " " 45.00 " "

14 " 16 " " 7.00 " " 55.00 " "

⌘ **Larger sizes at \$1.00, \$2.00, \$2.50 and \$3.00 each**

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Also a fine lot of Palms in all sizes, such as Kentias, Arcas, Latanias, Phoenix and Cocos.

Also Pandanus Veitchii and utilis, Crotons, Dracaenas, Nepenthes, Aralias, Araucarias, Aspidistras, as well as a fine lot of Ferns suitable for dishes, in leading varieties, and Cibotium Schiedeii from \$1.00 to \$3.00 each.

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BOSTON, MASS.

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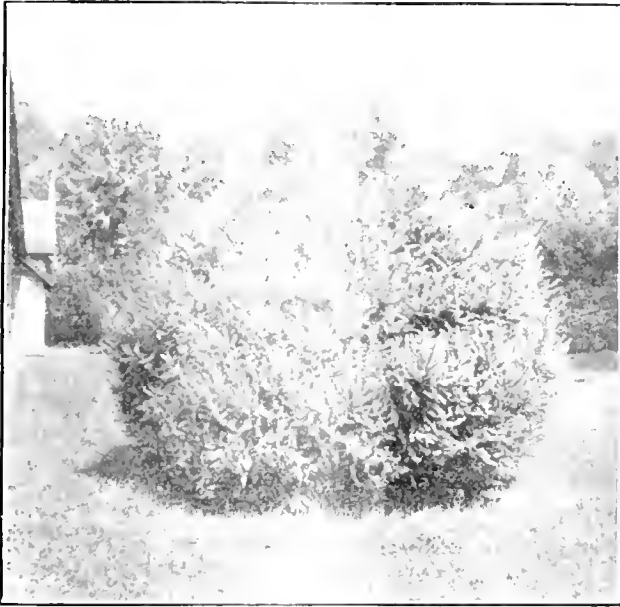
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✓ Picea (Spruce)

These are mountain trees which grow best in the higher altitudes in pure air, but they will grow also in low lands and require the same treatment as the abies.

Among the American spruces we have *P. alba*, *nigra*, and *rubra*, all three native to American spruces; all three look much like Norway spruce but smaller. They are not of sufficient decorative value for isolated positions on the lawn, but can be used for big plantations; all three bear a few good blue forms which are more ornamental.

P. alba aurea, the glaucous spruces, has the normal growth of a light gray color yellow at the upper surface of the young shoots. *P. alba coerulea Houstonii* has the normal form, but the sides of a pronounced white color. *P. alba obovata* is a dwarf, bushy little



PICEA NIGRA DONMETTII

shrub. *P. nigra Donmettii* is a dwarf, compact, large pyramid, of bluish color. There is a weeping form of *P. rubra* and a few other forms from the above types but they are seldom seen.

P. Engelmannii has the growth and aspect of a Norway spruce when young; the blue form is very decorative, has long been confused with *P. pungens* but is quite different, the needles being not so rigid and more closely pressed against the shoots.

P. pungens or Parryana is the well-known Colorado blue spruce; the type is grayish green, the needles are rigid and very pointed. There are many good blue forms in cultivation; the best are *P. p. Kosteriana* and *P. p. pendula*. There is also a yellow form.

P. Menziesii or Sitchen's from the Pacific coast is a beautiful tree but not hardy everywhere. The fine crowded needles all around the shoots, blue underneath, makes it look very distinct.

P. Breweriana from northwest California is said,

when young to resemble the mountain spruce, but is an interesting tree in its own right.

The great European spruce is *P. abies*, Norway spruce, the most common of all trees in our plantations and the one known to everybody. A great many forms have been raised from seeds, and no wonder; taking in consideration the millions of seedlings that are raised every year all over the world, something has to be found once in a while.

Candabrahiana, *monosa*, *Gregoryi*, *Maxwellii*, *pumila*, and a few others are dwarf growing forms, some not much over two or three feet high. Some grow large in diameter and are best planted in big rockeries or slopes. *Conica*, *columnaris*, *remonta*, are very compact growing, large or narrow pyramidal in form. *Inverta* and *pendula major* are very interesting weeping forms. *Finedonensis* and *aurea* are normal in form with the new shoots yellow when growing; they turn nearly green when ripe. *Cranstonii* and *monstrosa* are more curious than ornamental; they make long shoots with almost no side shoots. *Coerulea* is the only blue-colored spruce ever found in Europe; it comes from the Tura mountains and is of a nice dark blue color. There are many other forms but these are the most distinct.

P. orientalis from Taurus and Caucasian mountains is hardy nearly everywhere when not in a too exposed situation. It is a very nice, compact growing, little tree, ornamental through its slender shoots and dark glossy green color. *Or. aurea* is a good form, the young shoots bright yellow on the upper side.

P. Omorika, from the Carpathian mountains resembles the better known *Alcockiana*; the needles are further apart all around the shoots and show the glaucous color of the underside without lifting the branches. It is of very strong growth and makes a nice tree; not very common.

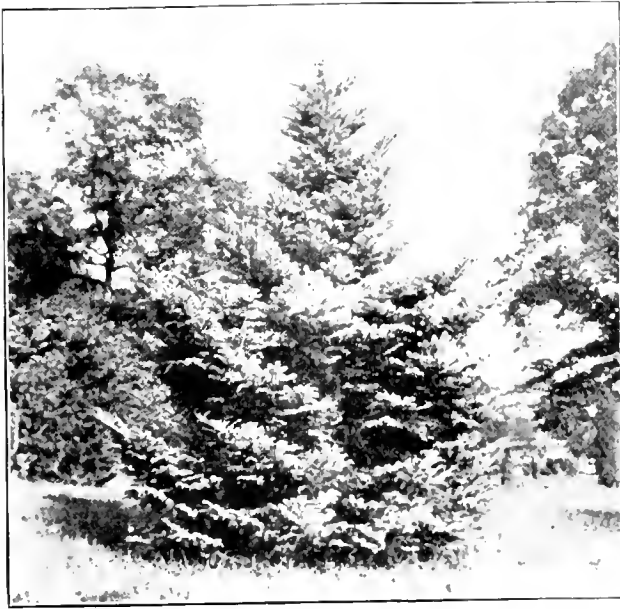
P. obovata from Siberia is a very hardy tree not unlike Norway spruce but smaller and of grayish green color.

P. Maximowiczii from Siberia to Manchuria is a tree of perfect pyramidal form; the needles are short, thin, far apart, rigid and very pointed and show the light brown color of the young shoots. The buds are white. This and the preceding, which grow naturally in a very cold region do not grow well in our mild climate.

P. Schrenkiana is found from Siberia to Turkestan. The Siberian form is said to be a form from *obovata*, has shorter needles than the other form which resembles more *Morinda* in its drooping habit, but is hardier.

P. Smithiana or *Morinda* from Himalaya; weeping spruce. If there is in New England a situation sheltered enough to grow that tree it is a blessing for the tree lover, for *Morinda* is certainly the most graceful of all the spruces. It has the habit of growth of *pungens* with all the shoots pendulous, and long thin needles

of a light green color. We cannot make it grow here. From Japan we have *P. Ajanensis* and *Alcockiana* often taken for one another. *Alcockiana* is well known. It



PICEA AJANENSIS

is a nice ornamental tree. *Ajanensis* has the needles more flat and darker green, which makes the blue color on the underside more apparent; it is also of a more compact growth.

P. Glehnii from northern Japan is also like *Alcockiana*. The needles are longer and lighter green and it is a smaller, more compact tree. It is one of those spruces that start early in the spring and the young shoots are often damaged by late frost.

P. polita, tiger tail spruce, is a very distinct tree and worthy of one of the best places on the lawn. The branches are not crowded. The needles, which grow all round the shoots are very rigid, long, thick, and sharp pointed. The buds are big and apparent; they make their growth late in the season. It is a handsome tree which ought to be in every collection.

A. M. De Haas

New French Chrysanthemums

The Floral Committee at the Paris Show had a very big job on hand for there was an immense number of new seedlings submitted for adjudication, all the well-known growers being well in the field. This part of the business was done the day before the opening of the show and instead of the committee sitting round a table and having the novelties brought to them as is customary at English floral meetings the members had to walk all over the place in a little crowd to find what they wanted in the different collections.

M. Aug. Nonin was first in the list with seventeen

certificates of merit. Then came the Marquis de Pins with fourteen. M. Alfa Chautrier had twelve. The eminent grower, M. Ernest Calvat was awarded eleven. M. Decault followed with ten. M. Dolbois, an amateur, was awarded eight. M. Montigny, M. Durand and Messrs. Vilmorin, Andrieux & Co. each received five and the other exhibitors fewer.

It is a difficult thing to prophesy as to the behavior of European varieties in America but on the spot the following were certainly the most promising. In Nonin's group Amateur *P. des Cognets* is of Japanese incurved form, big and solid broad florets, grooved, color deep rich yellow shaded amber. *Globe Blanc* is a very globular flower compact in build, florets pointed, color pure white, faintly tinted green. *George Robert*, a large Japanese, color pure pale yellow tinted rosy purple. *Mme. Abel Chatenay*, a closely built Japanese with very long florets, color pure white slightly tinted green. *Le Gaulois* is a decorative sort, very bright velvety crimson, reverse rich golden yellow. M. Nonin had five other decorative kinds certificated.

The Marquis de Pins' best varieties were *Mme. Le Saulnier de la Tour*, a rosy amaranth Japanese with silvery reverse, a big solid flower with broad florets. *Mme. Bougere*, also a large Jap, rather broad florets, color dull rose on a white ground tinted green at the tips. *Comtesse Alice de Laney*, very large Jap, rather flat but broad florets, color pale lilac-rosy pink. *La Tonkinoise*, the largest of all, a big spreading Jap, color bright rosy amaranth, reverse silver. *Mlle. Gache*, a difficult color to describe, a kind of buff tinted cream in the centre. *La Dame Blanche*; this is a fine white Jap with long drooping broad florets.

As to Wm. Chautrier's seedlings we can only say that they were not exhibited in the highest possible state of development and therefore it is difficult to appraise their value. *Alphonse XIII* was not bad; it is a big bloom, close and compact. *Prefet Lepine* is a large spreading flower of good size, a Jap with narrow florets. *St. Fereol* and *Mme. G. Havre* were two others.

M. Calvat showed *Algesiras*, a very large reddish crimson with long drooping florets reverse golden. Also *Touring Club* with narrow grooved florets, a close built flower and very massive, color orange amber. *Mr. Paul Randet*, a large Jap; creamy white, narrow twisted florets curly in tint. *Mme. de la Rocheterie* has big blooms, grooved incurving florets, color white, slightly tinted cream. *S. A. Naceur Bey*, President *Dubost*, President *Fallieres*. *Mme. Leon Truelle* were others.

Messrs. Vilmorin's certificates were for decorative varieties and as to those exhibited and certificated from other sources it hardly seemed worth while to do so as those mentioned are probably by far the best out of the lot.

Chasman Payne

Plant Tissues

Part IV.

In this last article I shall discuss secondary thickening or increase in diameter from year to year, explain bark development and cork formation and conclude with some recently published records of bud growth in fruit trees.

Secondary thickening is now very easily explained. The condition of things in a one-year-old twig at the close of the growing season was described in the second article. I did not mention there, however, that the cambium soon begins to grow out from the sides of each of the concentrically arranged bundles until it meets across the pith rays and forms a continuous cylinder of cambium tissue; this extends down around the twig from the formative cap at the growing point like the finger of a glove, separating the wood elements (xylem, pithray cells and pith) within from the bark elements (phloem, outer ends of pithray cells, cortex and epidermis) without. This is the usual origin of the continuous cambium layer. In some cases, however, it may be developed uniformly at the growing point from a ring of procambium tissue instead of as radiating strands which later grow together.

Each spring the cambium forms a new layer of xylem or wood including pithrays around the old wood and a new layer of phloem or inner bark beneath the old bark. This annual layer is continuous over the whole system, both trunk roots, and limbs and all living twigs and branches. The thickness of the ring varies with the season, the age of the tree and the location on the plant. One-twelfth of an inch represents a good thrifty growth. This decreases as the tree grows older and is thickest on the side of the trunk best supplied with limbs and branches. Excessive growth, such as one-half inch a season, is seen only in the central or first rings of very thrifty trees. The ready peeling of bark in the spring is due to the presence of the soft, actively growing cambium tissue. It is the cambium which unites the cion and stock, which heals the wounds in plant stems and which dies when a tree is girdled.

There is no difference between the elements of first year bundles and later bundles except that the first large vessels of later years' growth are now beyond the region of elongation and therefore their walls are pitted and not thickened only in spirals or bands. Spiral or annular vessels are found only in the primary wood next the pith. The same contrast is present, however, between the first and last formed wood elements in each subsequent year's growth the large conducting tissue is developed early and the smaller strengthening tissue later in the season. It is this condition which gives rise to the terms spring and summer wood. This contrast also makes the yearly rings of growth, i. e., it marks where the small summer wood of one season abuts against the large spring wood of the next. The term sap wood applies to the lighter colored zone of

wood extending two or three inches inward from the cambium tissue and containing the thirty, forty, fifty or more last formed yearly rings or growth. The cells of the sap wood conduct water and food solutions and otherwise assist in the life processes of the tree. The inner darker part of the trunk is the heart wood. The cells of this tissue are lifeless and their walls infiltrated with chemical substances. The heart wood functions simply as a mechanical support for the tree.

As the branch increases in circumference the cambium layer must keep pace with it by lateral, i. e., tangential growth and by the insertion of other bundles with secondary pithrays between them. The epidermis of young twigs is soon shed and the cortex is also lost in a few seasons. The whole is replaced by cork cells, strengthening tissue and the outer phloem or bast cells which have become crushed and useless as proteid conductors. This mixture forms the outer bark of older twigs and limbs. The winter value of such plants as *Cornus stolonifera* and *Kerria Japonica* is due to the brightly colored epidermis of present season twigs. If such plants are cut back severely early in spring they will make vigorous growth of new wood and produce fine masses of color in the winter time.

The formation of cork tissue is characteristic of the stems of woody plants. It begins at different ages in different plants. The cork cambium, or phellogen as it is called, is quite similar to the cambium tissue of the stem, except that the cork cells are usually developed only on the outer side, the inner part remaining as phellogen. Usually the phellogen is produced uniformly all around the stem and sometimes it is localized as in *Euonymus alatus*, where it is abnormally developed in four longitudinal strands giving rise to the four wings on the stem. The epidermis is first crowded off at the stomates by the growth of the loose mass of cork cells. The result is large ruptures which form the lenticels so conspicuous in birch, cherry, alder, etc. The cork cells give the gray color to older twigs and function to retard transpiration and allow increase in size by their power of elasticity. As the tree grows older the bark on the trunk and limbs breaks and cracks, gradually weathering off and producing the peculiar fissures and patterns characteristic of the bark of the different kinds of trees.

In this discussion of plant tissues nothing has been said as to what time growth begins in the spring, when it reaches the maximum or how long it lasts. In fact little is known concerning the actual time and amount of growth in plant tissues. The meagreness of our information shows the need of such experiments and makes observations like Mr. Chandler's in *HORTICULTURE*, September 8, '06, very interesting. In view of this it will also be of interest to know of the publication of some careful records of bud growth in fruit trees. I refer to the paper on "The Biology of Winter Buds."

by Dr. K. M. Wiegand in *Botanical Gazette*, June, 1906. Dr. Wiegand speaks of these records as follows:

"Little accurate work has been done towards determining the characteristics of the growth of the buds of trees, but that of W. M. Morgan at Cornell in 1901 shows that in the case of certain fruit trees the growth is very uniform and gradual up to about November 15, when the increase ceased quite abruptly. There was no growth in peach from this date until March 1, but growth was rapid from March 23 to the flowering time a month later, April 23.

"In apple and apricot growth almost ceased November 15. From this date until March 1 the increase was apparent but exceedingly slight, amounting to only 1-2 to 1 per cent. Renewal of activities began March 1 and from then until April 23, when the apricots bloomed, and April 30, when the apples bloomed, the growth was very rapid. The curve after growth began was not so gradual as in the peach, but became much accelerated just before flowering time.

"At intervals of one week apart through the fall, winter and spring buds were taken from the same tree and as nearly as possible from shoots of the same vigor; a large number were measured and the average taken as representing the size at that time. A Zeiss cover glass scale was found most convenient for making the measurements. From these careful observations, therefore, contrary to the general belief, it seems that fruit buds at least do not grow to any extent in winter. Their

swelling period is confined in the north to a few weeks previous to the opening of the bud."

In his summary Dr. Wiegand states the matter as follows: "The bud fundament in most trees is laid down early in the summer, grows gradually till late in the autumn, remains dormant until early in the spring, then passes through a period of swelling preparatory to unfolding."

In regard to how early buds begin to form in spring Dr. Wiegand notes the following observations: "July 15, peach buds well formed; June 1, small buds evident in the axils of the leaves of forest trees; as early as May the first leaf bud observed in *Betula alba*. In some cases, as *elaegnus* and *cornus*, the bud fundament is present as early as the unfolding of the previous winter's bud." This means that if last spring the opening buds of dogwoods were examined the buds now on the bushes would be present in miniature.

It would seem that in such cases as these last mentioned some growth would be made before the leaves are expanded, at least before early in the summer. However, we cannot tell until actual observations have been made. This is a rich field for investigation and will well repay work carefully done.

B. M. Curtis.

A Group of New Plants at the Chicago Show

Of late years but few really meritorious new plants have been seen at exhibitions and it is with pleasure we refer to the group shown by the Eden Nursery Co., Eden, Erie Co., N. Y., and it is still more interesting that Prof. Cowell either personally collected them or was the means of their introduction. A description of those most impressive follows; it is not a scientific description by any means, but may be sufficient to afford identification.

Aglaonema costata—Differing entirely from either *A. commuta* or *A. pictum* in its smaller, denser stature, and its positively pure white markings on the deepest olive green ground, its compact and free growth and its impressiveness. The leaves are 3 1-2 by 2 1-2 inches, heart shaped and pointed, midribs white. Among plants of which peperomias are so useful and decorative it looks like displacing many of them. In this manner it may be safely compared to the regales type of the *Anoetochilus* in its distinctness. The flowers of this genus are not showy. This new species must become popular.

Carludovica Jamaicensis—Differing from all other species in its tough leathery texture in its positively circular rigid iron-like stems, and its livistona-like expressions, the central portion of widest leaf having

twenty points, two side portions pointed each ten times on stems seven feet high. The next-sized leaves had been with from thirty to thirty-six points; number of leaves thirteen, differently disposed than those of any other *Carludovica*. When better established its distinctness will be even more apparent.

Draecena Americana—The first and as yet the only American species; full of much interest owing to its distinct form and general expression. It is different from all other *draecenas* and no *cordyline* resembles it. The leaves are arched, recurved, and recurving from the perpendicular; widest part two inches, pointed acutely, eleven to thirteen inches long, deepest green and sinuous—looks to be of great value for breeding purposes.

Draecena Cantleyi—A very bold yucca-like plant with broad sea green polished leaves spotted with dull yellow, resembling some forms of *aucuba*.

Anthurium caribbeae—Looks like a giant calla. Leaves large, thick, leathery—tough enough to make shoes or shingle houses—two feet long, fifteen inches wide on stems three feet high; flowers white. Seems to be a good decorative plant and should be useful as a breeder.

Pandanus amaryllifolium—Without any spines, this

is something like *Dracaena ensifolium* in effect. Compact in habit, of the densest, brightest green, and a good commercial plant. This is not strictly a new plant, but has been overlooked.

Pandanus Luzoniensis—An elegant grass-green species differing from *P. polycephalus* and *Porteana*, the leaves being narrower and from the base of the plant they are on longer recurved lines. Is a quick grower and will be of commercial value.

Cryptanthus Benkeri—A bromeliad dwarf, resembling very much *Dracaena Goldiana* and is promising as a jardiniere plant. Some other bromeliads, not named, promise to be of interest.

Schizocarpus plantaginifolium—What a name! Looks like old *Attacia cristata*; may be useful for collections.

Acanthus montanus—A particularly noticeable spiny plant, with sinuous deep-green leaves and dark stems; as a prickly plant it is A1.

Tetronema mexicana—Not a new plant but a little gem of a gesnera and a companion for *Primula Forbesii*.

A dozen or more seedling crotons, all of which were attractive, were admired. One, with the habit and shape of old *Variegatum* with milk-white markings, is a gem. A bold habited *Adolph Rothschildi*, with brilliant markings, and a brilliant gold *Weismanni*, are both fine.

Pennisetum capreum (a new grass?), with plumes four times the size of *Ruppellianum* and leaves of corresponding size, both of which are of a deep bronze color—the same shade as metallic *alocasia*—will be valuable for the garden and should have been certificated.

Dried specimens of *Eupatorium purpureum* with double flowers from a plant growing eight feet high and as much through; will be a valuable hardy plant.

John Thorpe

In the Moth Region

With the life-histories of the gipsy and brown-tail moths again completed many changes will be made another season in the manner of fighting them.

The tree wardens are more in favor of spraying than ever before. Men who thought they had thoroughly cleaned their trees of gipsies during the winter found that many eggs had escaped their notice, being hidden under rocks and piazzas, around fences, in stone walls and in similar locations where it was impossible to creosote them. This year I found several egg masses on leaves. These will, in the natural course of events, drop to the ground and escape notice. Hence spraying is the simplest and surest way for it "works all the time," catching the caterpillars as fast as they crawl into the trees to feed.

Arsenate of lead and Disparene were used in large quantities, many towns using each several tons. Fewer sticky bands and more burlap will be used in fairly

clean sections of other year. It is desirable to catch the caterpillars ~~as~~ they are hiding during the day and the burlap affords them the necessary shelter, at the same time bringing them down to convenient places where they can be killed. On the other hand the bands keep the caterpillars out of the trees, deflect them onto other foliage, often into hedges or underbrush where it is a good deal harder to find them. Send them into the trees and they will surely be caught under the burlaps in a day or two. In badly infested regions a combination of the two still proves the most desirable.

The brown-tail moths have not been as plentiful this year, fully fifty or sixty per cent, having been killed off in the nests and early stages by a fungus disease, identified as a species of *Empusa*. Many of the gipsies succumbed to a bacterial disease. Perhaps this is a suggestion of a possible solution of the problem.

Great headway has been made on the parasite question. From the Insectary at Saugus, Mass., several thousand parasites have been liberated. This parasite proposition is intensely interesting and while no appreciable results are expected for four or five years great reliance is placed on their help eventually. The parasites are imported from Europe and hatched out at the Insectary—"bug-house," as the natives call it. Here the secondary parasites are separated, tiny insects which feed upon the moth parasites in the same way that the latter attack the caterpillars. This is a very important part of the work, to destroy the harmful varieties in order to make the conditions as favorable as possible for the multiplication of the beneficial kinds.

Several different parasites are being reared. The *Trachina* fly, which resembles a large house fly, lays its eggs on the back of the caterpillar, and these on hatching give rise to little white grubs that bore into the caterpillar, living and feeding there. The most important, however, are the *Pteromalus* flies, one-sixteenth of an inch long, resembling midges. These and the *Ichneumon* flies,—another important class,—lay their eggs inside the caterpillar. These have the advantage that if the eggs are laid just before moulting takes place, they are still with the caterpillars, but in the case of the *Trachinas* are lost, if they do not hatch before the skin is shed.

Other parasites are the *Calosoma* beetles, bronze, gold, green and black, which attack the caterpillars and bite them in halves, sucking the juices. They resemble our *Calosomas* but have a habit of climbing trees, a characteristic not possessed by ours.

Many people fear that we shall have trouble from the parasites if the moths are cleaned out, but as they subsist entirely on a "meat" diet, there is no danger. In the case of such a joyous condition as a complete relief from the moths the parasites must either turn to some other species of caterpillars or else die.

Throughout the entire region much satisfaction is felt in regard to the condition of the street trees. They have retained their foliage well and show egg masses and nests only here and there. Back in the woods the conditions are not as encouraging, but even there a marked improvement is evident.

With continual thorough work and the help of the parasites I believe these two pests will be rapidly brought under control, reduced to the stage where the old commission left them.

R. J. Adams.

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French exhibitions and the new varieties that have made a record there, from the pen of the best informed chrysanthemum authority in the world, Mr. C. Harman Payne, Foreign Corresponding Secretary of the National Chrysanthemum Society of England.

We have in type many interesting and valuable articles which are crowded out of this issue for lack of space. The writers of such are assured that they will appear in our columns in due time and our readers will find that they are all worth the waiting for. Quality rather than quantity has always been our first aim and any one who will make full and proper use of the information to be found in any single issue of HORTICULTURE will have enough to keep him busy until the next number is due.

The project being inaugurated by the Gardeners' and Florists' Club of Boston for the education of its young gardener members in the theory and practice of landscape work will be watched with much interest as it progresses and the example is likely to be followed by other similar organizations. It is a hopeful sign that the florists' clubs are coming to realize that they have an obligation to their members and a duty to perform beyond the trivialities that frequently in the past have consumed the time at their meetings and given birth to the oft repeated query, "What are the florists' clubs good for?" The generous action of the honored treasurer of the Boston club in providing means for those of its young members who are unable to assume the cost of the lessons is worthy to be recorded in letters of gold. The Gardeners' and Florists' Club of Boston is to be congratulated on having a genuine philanthropist on its rolls.

Now is the time when many societies and clubs elect their standard bearers for the coming year. No more important duty appertains to membership in any association than the election of officers, for upon the fidelity and fitness of the leaders depends in a great measure the prosperity and, not infrequently, the very existence of the organization. Every year we realize more and more how essential these bodies are to the welfare of every one engaged in any horticultural pursuit. The great exhibitions which bring public attention so directly to our products, the contention for justice at the hands of express companies and railroads, the work for higher education—all would be practically out of the possibilities were it not for our organizations. They can do what the individual could not. As our business grows in strength and extends its beneficent influence over a continually widening field problems will multiply and their solution will require all the concentrated force and zeal we can command. Let every one actuated by a spirit of loyalty to the common welfare, make it his business to take an active part in existing societies or, where none exist, take the initiative in starting one. Then select your officers with wisdom and "let your light shine."

Our reading columns this week teem with good material for the chrysanthemum lover. We have the pleasure of presenting our readers with the earliest information in this country regarding the great

Something worth reading

RAMBLING RETURNS FROM RICHMOND.

Among the new roses at the E. G. Hill Company's houses one that especially impresses every visitor is a seedling from Caroline Testout, a very large petalled flower of glowing pink—"improved Killarney" Mr. Hill calls it. Another handsome soft deep pink is the result of a cross between Wootton and Mrs. John Lang. Another closely resembles Wellesley in form and color of flower but is of somewhat better build and has a strong La France fragrance. Mr. Hill is very desirous of obtaining a duplication of Rosamund Orr English with larger flower than that fine colored variety, and many seedlings attest his efforts to this end. A very promising sort is a one-year-old seedling from Richmond X Etoile de Lyon. That superb rose illustrated in HORTICULTURE last year as A1 is still waiting for a name that will do justice to its merits. Mr. Hill has a full bench of it now, and is cutting twenty flowers from it to one of American Beauty. It will probably be distributed next year.

Among chrysanthemums, several of the new varieties show great promise of future prosperity. Rosette is a French variety, in perfection at Thanksgiving, Perrin pink in color and as large as Timothy Eaton. Le Gracious is a loosely incurved flower, Daybreak pink in color. Mrs. Beach is proving to be one of the best yellows in commerce. Jeannie Nonin, otherwise one of the best whites in the world, is subject to a fungous disease which ruins the foliage. Mr. Hill has one of his own seedlings, a shapely flower red with fawn reverse, dwarf habit, which is to be called Fred. Lemon. Marian Newell is one of the finest of the dwarf pink section; it bears a big shapely flower of color similar to Dr. Enguehard. The Yellow Mrs. Jerome Jones is showing a disposition to revert to original color, nearly half the crop going that way this season. Major Bonnaffon has a tendency to "go blind" this season with a good many growers in the west. What is the cause? Is it late planting? Some wise growers say the middle of May is late enough for planting this variety.

A DEAD ONE.

Breathes there a man with soul so dead,
Who never to himself has said:
"My trade of late is getting bad;
I'll try another ten inch ad"?
If such there be, go mark him well;
For him no bank account will swell,
No angels watch the golden stair
To welcome home the millionaire.
The man who never asks for trade
By local line or ad displayed,
Cares more for rest than worldly gain,
And patronage but gives him pain,
Tread lightly, friend; let no rude sound
Disturb his solitude profound,
Here let him live in calm repose,
Unsoiled except by men he owes,
And when he dies go plant him deep,
That naught may break his dreamless sleep;
Where no rude clamor may dispel
The quiet that he loved so well,
And when the world may know its loss,
Place on his grave a wreath of moss,
And on the stone above: "Here lies
A chump who wouldn't advertise!"

—M. L. Carey, in The Spokesman.

Advertise in HORTICULTURE and you'll escape the above tragic fate.

THE CHICAGO SHOW.

Further Comments by Uncle John Thorpe.

Friday was "private gardeners' day." They turned out well and their exhibits comprised all the finer plants—a little better furnished and finished than those from others. The private gardeners should be asked to make exhibits of fruits and vegetables; horticulture is not represented broadly enough at our exhibitions.

Monstrosities and absurd treatments cannot be too positively discouraged. In the class for 100 American Beauties "arranged for effect," a tree stump, six or more feet high, with shining green leaves placed upright to represent bark—the roses arranged in the hollows of the stump—was conspicuous. Another exhibit had 6-inch-wide muddy red and muddy green ribbon hung on it—for what?

In the classes for seedlings, sports and undissemated importations of chrysanthemums and carnations not as much as a piece of tissue paper should be given to anything not superior to existing varieties.

In carnations Valentine in the Daybreak class was good. Red Chief is the nearest approach to a pure scarlet and must be a winner although not a very large flower. Bonnie Maid, a pleasing rosy lilac, edged with white promises well. Winsor is a gem; and what a keeper! Aristocrat held its own, of course, and Gov. Deneen proved a good keeper.

Of chrysanthemums, Mme. Chaulbanne, Incandescence, Alice Roosevelt, Detroyat and Dubuisson Foubert, all from E. G. Hill Co., were grand. Dorner's No. 26-03, a superb loosely incurved essence of gold did not get an award, but it can afford to wait.

I think HORTICULTURE is the best paper in its line. I find out something in every issue that is worth a year's subscription to me.—H. P. W.

HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items.

BUFFALO, N. Y.—E. C. Brucker, 387 87 Elliott St.
CHICAGO, ILL.—Peter Pearson, 920 N. Campbell Av.
CLEVELAND, O.—A. L. Hutchins, 2220 East 74th St.
COLUMBUS, O.—M. B. Faxon, 246 Oak St.
CINCINNATI, O.—Frank W. Ball, Walnut Hill.
DETROIT, MICH.—Frank Dauzer, 1437 Fifteenth St.
INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.
LOUISVILLE, KY.—F. L. Schulz, Jr., 1225 Cherokee Rd.
MINNEAPOLIS, MINN.—G. L. Skutt, 3800 Bryant Ave.
MONTREAL.—William Cooper, 333 St. James St.
NEWPORT, R. I.—David McIntosh, Ledge Road.
PHILADELPHIA, PA.—George C. Watson, Dolson Bldg., 9th and Market Sts.
SAN FRANCISCO, CAL.—Luther Monnette, 866 Isabella St., Oakland, Cal.
TOLEDO, O.—J. L. Schiller, 929 Prouty Ave.

PERSONAL.

Alfred Rehder has returned to Boston after a two years' tour among European libraries in the interests of the Arnold Arboretum.

A. Lozier of Des Moines, Ia., has gone to Southern Texas to look after his cotton plantation and incidentally to recover his health. The business will be managed by his brother Harvey until he returns.

I think the article on Bottom Facts about Carnations well worth the price of your magazine, hence enclose herewith check for \$1.00 in payment of subscription for one year.—P. M.

HOUSE OF CARNATION IMPERIAL AT JOHN E. HAINES' BETHLEHEM, PA.



NEWS OF THE CLUBS AND SOCIETIES

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual election at Horticultural Hall last Saturday was hotly contested—a real old-fashioned time which must have made some of the former gladiators of this organization wish they were back again on earth and in the fray. Gen. Stephen M. Weld, the regular nominee, was elected president by a large majority defeating W. W. Rawson, who was a candidate on nomination papers. Mr. Rawson, who had withdrawn as a candidate two years ago on the request of several members who favored the election of Mr. Estabrook at that time took the ground that the promise given him by these gentlemen of their support the following year entitled him to their fealty now and the fight was made largely on that issue. Other officers elected were: Vice-president (for two years), Prof. Charles S. Sargent; trustees (for three years), William N. Craig, Arthur F. Estabrook, J. K. M. L. Farquhar, Arthur D. Hill; nominating committee, Arthur F. Estabrook, Warren H. Heustis, William Nicholson, Loring Underwood, Edward B. Wilder.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

Tuesday night, November 20, was annual election night in this vigorous organization. After the reading of reports and the election of sixteen new members had been disposed of, Australian ballots were distributed containing two sets of names for the various offices and voting began. Interest centered in the presidency, Messrs. J. W. Duncan and T. H. Westwood being the candidates in a very close contest. One hundred and thirty-two votes were cast and Mr. Westwood won by a plurality of 7. Other officers were elected as follows: Vice-president, Fred E. Palmer; treasurer, Ed Hatch; secretary, W. N. Craig; executive committee, Robert Cameron, James Wheeler, Thos. J. Grey, and Wm. Nicholson. Mr. B. K. Howard formerly transit man in the surveying department of Boston parks, an expert landscape engineer, who has been secured to conduct the proposed course of instruction in landscape gardening, was present and outlined the plans for the lessons which are to be given twice a week at Horticultural Hall throughout the winter season. Forty-two members signed for the course. Edward Hatch, treasurer of the club, with characteristic generosity made a voluntary donation of \$100 towards contingent expenses and to provide instruments and material for any young men to whom the cost would be a burden.

Quite an extensive display of flowers adorned the exhibition table. From W. N. Craig there was a splendid collection of zonal geranium blooms under name, some being the round flowered English sorts for conservatory and house culture and others valuable as bedders; a report of merit was given for these. Mr. Craig had also a fine set of seedling single chrysanthemums which received honorable mention. A collection of large

chrysanthemums from Larz Anderson received honorable mention, and a similar award was given for a fine lot of pompons and single varieties from C. H. Totty. William Sim showed his new single violet which also received honorable mention and a vase of blooms of *Calanthe luteo-oculata* from Larz Anderson won a report of merit for superior culture. *Picus altissima* from F. W. Fletcher Co., standard and seedling carnations from S. J. Goddard, seedling carnations from H. A. Stevens Co., and parsley Dobbies Selected from W. N. Craig all received votes of thanks.

It is expected that W. H. Wyman of North Abington will be the essayist at the December meeting.

At our last meeting it was voted to offer prizes of \$6, \$4 and \$2, for geranium plants started after October 16, to be exhibited at our September meeting in 1907. This is for assistant gardeners and florists. Are the plants started yet? If not, see to it at once and root them without delay.

W. N. CRAIG, Sec.

LENOX HORTICULTURAL SOCIETY.

The regular meeting of the Lenox Horticultural Society was held November 17th. President S. Carlquist in the chair. The chrysanthemum exhibition committee reported a balance on the right side. Several of the members gave interesting talks. A rising vote of congratulation was accorded Mr. A. J. Loveless, on his election as president of the national Chrysanthemum Society of America. We feel greatly honored that a member of our body has been elected to such a prominent position. First class certificates were awarded to S. Carlquist for chrysanthemum Japan and E. J. Norman for *Cypripedium Josephianum*, this being the first American-raised *cypripedium* seedling to flower.

GEORGE FOULSHAM, Sec'y.

DUTCHESS COUNTY HORTICULTURAL SOCIETY.

The twelfth annual show of this society was held on November 7 and 8 in the Armory at Poughkeepsie, N. Y. One of the attractive features was the pavilion of George Saltford in the centre of the hall. In the various plant classes Archibald Rogers, gardener, J. Connors, led, taking seven first prizes; in cut blooms of chrysanthemums, W. Sargent, Ogden Mills, F. W. Vanderbilt and W. P. Clyde shared the honors.

The open classes for violets were won by George Saltford and B. Willig. The class for private gardeners by H. J. Allen. In quality the roses would be hard to beat. Some fine carnations were staged, including a vase of Winsor from F. R. Pierson Co. The table decoration on the second day was won by F. Heevemans with orchids, first; C. Marshall with Winsor carnations, second. H. G. Cottam was first in best collection of vegetables and of fruit. The judges were: W. Turner, Oceanic, N. J.; Thos. Harrison, Glen Cove, and R. W. Allen, Hudson, N. Y.

THE LAKE GENEVA GARDENERS' AND FOREMEN'S ASSOCIATION.

This association held its second annual flower show on Friday and Saturday, November 9-10. The show was formally opened by Chas. L. Hutchinson in a very appropriate address. The decorations were of oak leaves and evergreens. The flowers and plants were far superior to last year's exhibits. Some splendid specimens and standards were shown and the cut flowers were as good as the best.

The townspeople turned out very liberally and the hall was crowded all the time by admirers of the autumn beauties.

Following is the premium list condensed:

In the special prizes A. J. Smith won the sweepstakes prize of \$15.00. For general display of cut chrysanthemums Frank Keuhne won 1st, \$20.00; Axel Johnson, 2d, \$10.00. For general display of chrysanthemum plants, A. J. Smith, 1st, \$20.00; William Longland, 2d, \$10.00. S. B. Chapin's prizes for best group of pompons, \$5.00; also \$5.00 for best group of anemone were won by William Longland. Mrs. W. S. McCrea's prize of \$5.00 for best specimen anemone, any variety, was won by Albert Reupke. Mrs. H. C. Lytton's prize of \$5.00 for best 25 carnations went to A. J. Smith. C. L. Hutchinson's prizes for \$2.50 for best collection of cut anemone and \$2.50 for best collection of cut pompons were won by William Longland. H. M. Dickenson's prizes of \$6.00 and \$4.00 for twelve yellow chrysanthemums, A. J. Smith, 1st; Frank Kuehne, 2d. The Boddington prize of \$5.00 for twelve best pink chrysanthemums was won by A. J. Smith, and of \$5.00 for best twelve white chrysanthemums, by Frank Kuehne.

In the regular classes: Cut chrysanthemums, Frank Kuehne had 8 first prizes, 9 second, 2 third; Wm. Longland, 6 firsts, 1 second; A. J. Smith, 4 firsts; Axel Johnson, 4 firsts, 3 seconds, 2 thirds; Button Bros., 2 firsts, 1 each second and third; A. Reupke, 3 thirds; Wm. Wahlstedt, 2 firsts, 1 second; Ed. Sandgren and R. Niles, each 1 second. In chrysanthemum plants, Wm. Longland, 12 firsts; A. J. Smith, 5 firsts; A. Reupke, 3 firsts, 1 third. A. J. Smith had 2 firsts in both roses and carnations; Axel Johnson and A. Reupke were the other winners. In addition, Albert Reupke won 3 firsts and one second; F. Keuhne, 2 firsts; A. Johnson, 1 first; A. J. Smith, 2 seconds.

WORCESTER COUNTY HORTICULTURAL SOCIETY.

The annual chrysanthemum exhibition of this society was held Thursday afternoon and evening, November 8, with as fine a display as was ever staged in the hall.

In the cut flower section the first premiums went to private gardeners. William McAllister, gardener for Mrs. John C. Whitin, captured nine first premiums, and Mr. Russell, gardener for Mrs. G. W. Knowlton, secured three. H. F. A. Lange showed a fine table of roses; L. C. Midgley one of roses and carnations, including some

TWO NEWLY ELECTED PRESIDENTS



Stephen M. Weld, President-elect Massachusetts Horticultural Society.

Gen. S. M. Weld, who has been elected president of the Massachusetts Horticultural Society, is a native of Jamaica Plain, Mass., is 65 years of age, and lives now in Dedham, where he has a beautiful estate. He is an enthusiastic patron of horticulture and the products from his place have been frequently seen on the exhibition tables at Horticultural Hall. Gen. Weld served through the civil war and made a brilliant record. He has amassed a fortune in the woollen and cotton industry. His family have been connected with the Horticultural Society since its founding, over 80 years ago.



Thomas H. Westwood, President-elect Gardeners' and Florists' Club, of Boston.

Thomas H. Westwood, the newly-elected president of the Gardeners' and Florists' Club of Boston, has been an enthusiastic and faithful member of that organization from its early days and has served as its vice-president for the past four years. For sixteen years Mr. Westwood has been head gardener at Forest Hills Cemetery, bringing to the position the experience of a life-time devoted to gardening pursuits in Scotland and America. He is a native of Kirkealdy, Scotland—Peter Henderson's birth-place—and is in the prime of life. He will make an industrious, earnest president.

promising seedlings; H. E. Littlefield had four vases of roses of excellent quality, also a vase of the new violet having a reddish shade. There was a fine showing of palms and ferns which were contributed by Messrs. Littlefield, Lange, Breed, Book and Hixon. E. W. Breed had two hanging baskets of nephrolepis, being very large specimens. There was a splendid showing of apples in the library, the premiums coming from the Eames fund. The attendance was very large.

The annual meeting of the Worcester County Horticultural Society was held on Wednesday, November 7. Secretary Hixon's report reviewed the society's work and the exhibitions held during the year. Treasurer Paine announced all bills paid and \$2000 on deposit. President Hadwen and Secretary Hixon were unanimously re-elected. Nathaniel Paine, who has served the society as treasurer for 16 years, declined a re-election and Chas. S. Bacon was chosen for the position. Messrs. Rice, Draper and Marble were chosen vice-presidents. Several changes were made in the board of trustees.

E. W. BREED.

GARDENERS' CLUB OF BALTIMORE

The exhibition by this club at the new hall of the Florists' Exchange was a gratifying success. The quality of the exhibits throughout was exceptionally good. Messrs. Gude, Bisset and Bauer of Washington acted as judges, and conspicuous among the other visitors was F. R. Pierson whose exhibit of carnation Winsor was a special feature of the show. Another exhibit of extraordinary interest was that of John Cook which comprised three new roses, the immaculate Madonna—a most beautiful flower—and two others as yet unnamed but of almost equal merit.

A great specimen of Begonia Haageana perfect in every point was shown by Mrs. H. Barton, gardener George Morrison. Mrs. T. H. Garrett, gardener Chas. Uller, made a fine display of palms and other exotic plants. Halliday Bros. and I. H. Moss also contributed a large number of decorative plants. Henry Fisher had an exceedingly well-grown collection of ferns including handsome specimens

of Nephrolepis Whitmanii. Quite an astonishment for this time of the year was the almost complete collection of fancy leaved caladiums shown by Charles Uller.

In chrysanthemums the display of pompons by R. Vincent, Jr., & Sons was a great attraction. Standards and single-stem pots from C. R. Diefenderfer, gardener C. M. Wagner, and specimen blooms from Halliday Bros., E. Herman, G. A. Lotze, H. Weber & Son and Hannigan were all noticeably fine. Roses and carnations were shown by Moss, Cook, Anderson, Madson and others, and F. G. Burger displayed some artistic design work.

The Gardeners' Club of Baltimore will have hereafter the fine hall, up stairs, in the Florists' Exchange building for their meeting place. The Exchange has expended \$28,000 on this building. The main floor will be used for wholesale flower purposes. On Tuesday night last a supper was given in honor of the judges and visitors which was attended by about sixty members and their friends all of whom congratulated the Baltimore florists on their beautiful new home.

C. L. SEYBOLD

THE AMERICAN ROSE SOCIETY.

The Executive Committee held a meeting at the Hotel Marrinique, New York City, Nov. 9, 1906.

All members reported in person or by letter. The arrangements for the spring show, in connection with the Washington Florists' Club, to be held in March, 1907, were reported to be perfected, the agreement having been signed by Peter Bisset and Chas. E. McCauley, on behalf of the Washington Florists' Club and Robert Simpson, President of the American Rose Society. The secretary reported to the meeting, that when at Chicago last month, he attended the Cook County Horticultural Society's meeting, was introduced to the meeting on behalf of the American Rose Society, and received from the association courteous consideration; that he had urged the western people as far as he could, to join hands earnestly to make the Rose Society a great popular educating association, to bring in the era of "A rose for every home and a bush for every garden," which to the commercial grower meant a standing and expanding interest in outdoor floral decorations of all kinds.

Letters were read from P. J. Lynch, West Grove, Pa., Jas. J. Curran, Salem, Va., and Patrick Welch of Boston, Mass., encouraging the best efforts possible, to make the show at the Capitol of Nations.

Since the Committee meeting in August, Mr. S. S. Pennock of Philadelphia had sent in application for life membership with the full fee of \$50.00.

A special prize of \$10.00 was reported for an exhibit of three good roses, suitable for door-yard planting, that held the foliage to the best advantage. Robert Simpson, Clifton, N. J., offered a silver cup valued at \$50.00 for the best collection of crimson roses; H. O. May, Summit, N. J., offered a silver cup valued at \$25.00 for American seedling roses not yet introduced; F. R. Pierson, Tarrytown, N. Y., offered a silver cup valued at \$25.00 for the best collection of Hybrid Wichuriana and Ex-President W. C. Barry advised that his firm would be pleased to offer a suitable prize to be designated later.

It was moved by Mr. May and seconded by Mr. Farenwold, that the Chair appoint a committee to prepare a synopsis of the organization and doings of the American Rose Society up to the present time.

The Chair appointed the secretary and vice-president, Mr. Pierson, as such committee.

BENJAMIN HAMMOND,
Secretary.

NEW BEDFORD HORTICULTURAL SOCIETY.

At the monthly meeting of the New Bedford Horticultural Society J. Woolward Manning of Reading spoke upon the subject of Landscape Gardening. He cautioned his hearers against making the lawn too large as the eventual care of it might become a serious problem; he advised limiting the number of perennials planted to 10 to 20 distinct varieties of each kind, and the planting of

annuals and tender plants occasionally to relieve the monotony and enhance the effect. The use of biennials was also recommended. For the borders of extensive grounds he strongly recommended the planting of native shrubs and low growing trees, supplemented by Jap. berberis, *Deutzia gracilis*, etc., in the foreground.

A short time was devoted to discussion during which Mr. Manning had a lively time in answering questions. A hearty vote of thanks was accorded to the speaker.

THOMAS WHITE.

NEW JERSEY FLORICULTURAL SOCIETY.

The twelfth annual flower show of this society was held in the new hall of the Woman's Club, in East Orange, on Monday and Tuesday, November 5 and 6. Twenty exhibitors contributed to make what was one of the most successful shows in the history of the society. After all the arrangements had been made for the show upon a small scale, one of the patrons of the society placed this beautiful hall at their disposal and such are the resources of the growers connected with the organization that the space about sixty feet square was filled with the best that this now celebrated section affords.

The awards were as follows: For best group of chrysanthemums and foliage plants, 75 sq. ft., S. & A. Colgate, gardener W. Reid, was first; W. Runkle, gardener D. Kindsgrab, second; Wm. Barr, gardener A. W. Bodwell, took the George Smith prize for best display of orchids. In the chrysanthemum plants and blooms J. Crosby Brown, gardener Peter Duff, took six firsts, other winners being A. C. Van Gasbeek, gardener William Bennett, A. B. Jenkins, gardener Geo. Von Qualen and Stewart Hartshorne, gardener A. T. Caparn. A. B. Jenkins was first in the rose and carnation classes; J. Crosby Brown first in both violet classes. Certificates of merit were awarded to Lager & Hurrell for display of orchids; F. R. Pierson Co. for carnation Winsor; John Reimels for carnation Winsome; Popken & Collins, T. A. Gillespie, H. C. Potter for chrysanthemums; C. Hathaway, rose Killarney; J. Hauser, group for decorative effect.

SOUTHERN CALIFORNIA HORTICULTURAL SOCIETY.

This society held its third exhibition on October 30 in Los Angeles. Black Hawk, Gen. Hutton, Good Gracious, Mary Inglis, and the yellow pumpkin What Cheer, were displayed respectively by Alex Urquhart, W. C. Collett, Bernard Whitehead and Sidney Hockridge. Wright's Flower Shop had a fine showing of roses; the Oceanside Nurseries' unusual exhibit of Mont Blanc sweet peas attracted much attention; E. R. Meserve and E. S. Langford showed 20 varieties of field-grown carnations; Morris Goldensen well developed American Beauties; C. P. Meyer, several seedling carnations that promise to be heard from later. In the decorative class, Ethelind Lord got a certificate of merit, and J. W. Wolfskill showed a simple but effective basket arrangement in yellow chrysanthemums and wheat.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.**Department of Plant Registration.**

The H. Weber & Sons Co., Oakland, Md., submit for registration the following:

Carnation Toreador, white overlaid with deep pink, after the style of Prosperity, but showing more and deeper color, particularly the inner portion of the flower, bounded on the outer edge of petals by a distinct white zone. Flowers fully as large as Prosperity at its best. A strong grower, stems long and extra strong.

Chrysanthemum Weber's Chadwick, a yellow sport of Golden Chadwick, much deeper in color than its parent, and several shades deeper than Major Bonnaffon.

WM. J. STEWART, Secretary.

AMERICAN CARNATION SOCIETY.**Carnations Registered.**

By the Chicago Carnation Co., Joliet, Ill.—"Red Riding Hood" in color a bright scarlet, in form well built; flower nicely fringed and well filled; center with a calyx that does not burst; stem long and strong, perfectly straight. In substance the keeping qualities are of the best; in productiveness it is early, free and always in crop; in habit it has strong, clean growth with wide heavy grass, establishing itself readily and making rapid advance.

By The H. Weber & Sons Co., Oakland, Md.—"Toreador" White overlaid with pink, after the style of Prosperity but showing more and deeper color, particularly the inner portion of the flower, bounded on the outer side of the petals with a distinct white zone. Flowers fully as large as Prosperity at its best. A strong vigorous grower with no surplus grass and will stand close planting. Aug. 1st planting will give first class blooms by Oct. 1st.

J. D. Thompson Carnation Co., Joliet, Ill., register "Lucile," a large white bloom overlaid with pink, with a long stiff stem.

ALBERT M. HERR.

Lancaster, Pa.

PACIFIC COAST HORTICULTURAL SOCIETY.

On invitation of Mr. Tevis of Burlingame, the Pacific Coast Horticultural Society recently visited his magnificent estate. On their arrival a bounteous repast was served, after which Superintendent Myers announced that "the place was theirs for the day." The extensive collection of plants in the greenhouses and on the grounds received careful inspection and special praise was bestowed upon the fine araucarias. At four o'clock all assembled in the dining room where, after refreshments were served, President J. W. Bagge expressed the thanks of the society to Mr. Tevis. Timely remarks by F. Ludemann, H. Plath, T. F. Taylor and Mr. Eldred followed and then automobiles whirled them to their train for the city.

The Lachine Horticultural Society, Lachine, Can., have elected the following officers for 1907: President, A. J. Dawes; vice-president, W. R. Duckworth; secretary-treasurer, Chas. A. Smith.

Obituary

Rudolph Ulrich.

We gladly give space to a few notes on the life of the late Rudolph Ulrich which were not in our possession when our previous brief obituary notes were written. Mr. Ulrich was a native of Weimar, Germany, where he was born in 1841. He came to this country in 1866, his first work here being on the grounds of the Hotel del Monte at Monterey, Cal., where his excellent



taste was well displayed and a most enviable reputation was won. As superintendent of landscape architecture at the Columbian Exposition at Chicago, the Trans-Mississippi at Omaha, the Pan-American at Buffalo and in the laying out of E. C. Benedict's place at Greenwich, Conn., his success was widely recognized. Prospect Park, Brooklyn, where he served as superintendent, displays among the features introduced by Mr. Ulrich the rose garden and the grounds about the institute and a large part of the plaza. For ten months previous to his death he was engaged in laying out the grounds of the Chateau Kearney at Fresno, Cal.

Wm. S. Wilson.

Wm. S. Wilson, a well-known rose grower of Wellesley, Mass., died on November 8, aged 48 years. He leaves a widow and three children.

The Ontario Horticultural Association closed its third annual exhibition at Toronto on November 19 with the most gratifying results. In the awards for prizes Exhibition Park and Allan Gardens were first and second, respectively, for the best group of plants; T. McHugh took the Allan cup, Challenge cup and the Scott special prize for the largest bloom exhibited; Dale Estate were first for best fifty blooms; Steele Briggs Seed Co. first for six white chrysanthemums. J. S. Simmons took first prize for decorated dinner tables.

ADDITIONAL NOTES ON THE BALTIMORE SHOW.

The Baltimore show has already been ably reported by Mr. Seybold. I trust, however, that a few hurried notes from an outsider will not be out of place. The management of the Gardeners' Club are to be congratulated on having gotten up, after an interval of years, a most creditable show. The present exhibition is distinctly encouraging, and reflects great credit on the club. The leading people in the trade did their utmost to make it a success. It was a fitting dedication for the new building of the Florists' Exchange, which is a model structure in every way.

An unannounced prize for the best vase of cut blooms in the show went to Stevenson Bros. for an extra fine lot of Killarney roses, which well deserved the prize.

George Morrison's vases of cut blooms of Nellie Pockett, Cheltoni, and William Duckham were superb, and made one of the features of the show.

C. M. Wagner, considering his limited facilities, had an unusual number of firsts to his credit in various classes. His pot plants grown to single stem were especially creditable.

Among Jno. Cook's new roses Madonna is certainly a beautiful thing and of the purest white imaginable.

Fred G. Burger's wreaths, plateaus, and baskets were distinguished for richness and good taste, and always had a crowd around them—especially feminine.

G. A. Lotze and George Morrison had the distinction of carrying off between them the largest number of firsts in the cut chrysanthemum classes.

Messrs. Halliday Bros. had a grand lot of specimen palms as a center piece in the upper hall on which their card was missing. They were good enough to have a card all right.

Isaac H. Moss exhibited among other things a fine lot of evergreens in tubs. Among them was one labeled "Scotch Pine." It was just an ordinary Scotch fir, but I was glad to see an old friend.

"The Fir is King of Scottish woods,
But the Queen—ah! where is she?
Down by yon wimpling burnie's side,
The bonnie birken tree."

G. C. W.

THE COLUMBUS EXHIBITION.

Our second annual chrysanthemum show was held in our new rooms in the Brent Building, November 12 and 13. In quality of exhibits it was all that the most enthusiastic of the craft here had hoped for, and reflected much credit on the florists of this city. Owing to our moving into new quarters, it made the show a week later than the original date arranged, but this proved to be all in our favor, as chrysanthemums have been very late in finishing this year. Not only was this meeting our chrysanthemum show, but also house-warming, and a very entertaining musical program had been arranged by the committee, which was thoroughly enjoyed by the large number who thronged the rooms. In the class for six exhibition blooms of three varieties, the Fifth Avenue Floral Company was first, with Timothy Eaton, W. H. Chadwick and Golden

standing, the latter variety being the only one; for second prize, E. Metzmaier; John H. Williams took third award. The next class was for three exhibition blooms of three varieties; the competition here brought out some of the best flowers in the show. C. P. Torrey, with Miss May Seddon, Souvenir de Montheron and Merza took the first prize; the Fifth Avenue Floral Company took the second prize. In the various classes for blooms, commercial scale, the competition was very strong. The first class was for six blooms cut from three plants. John H. Williams was first with all Bonnaffons; E. Metzmaier second with Golden and W. H. Chadwick; and the third prize went to the Fifth Avenue Floral Company for W. H. Chadwick. The next class under the commercial scale was for two blooms cut from one plant, and both awards were given to W. H. Chadwick, the first prize to the Franklin Park Floral Company and the second to the Fifth Avenue Floral Company. In the nine commercial blooms cut from three plants class, E. Metzmaier was first and John H. Williams second; for three blooms cut from one plant, Sherman Stephens was first with W. H. Chadwick, and the Fifth Avenue Floral Company second. Special prizes were offered by Graff Brothers and M. B. Faxon, in which competitions perhaps the greatest interest of the show centered. The Graff Brothers' prize was for the best twelve blooms in the exhibition, commercial scale, and was given to the Franklin Park Floral Company for twelve splendid blooms, half of which were Golden Chadwick and half W. H. Chadwick. The M. B. Faxon prize for five commercial blooms was won by the Fifth Avenue Floral Company for five beautiful W. H. Chadwicks. The committee awarded "Highly Commended" to the Franklin Park Floral Company for finished blooms of Dr. Enguehard. The Livingston Seed Company received "Honorable Mention" for a large collection of blooms which included many elegant new and standard varieties. "Honorable Mention" was also given to both Sherman Stephens and C. A. Roth, for collections of blooms which included many of the best commercial sorts. The attendance was very satisfactory, and both flowers and the music were very much enjoyed. The committee on awards was M. B. Faxon, Samuel Graff and T. A. Sexton. R. A. Currie was manager of the exhibits, and A. M. Hills, John H. Williams and Edward Helfrich composed the general committee of arrangements.

CLUB AND SOCIETY NOTES.

The annual meeting of the Michigan State Horticultural Society to be held at Benton Harbor on December 6, 7, and 8, promises to be of unusual interest.

The Des Moines Florists' Club which was organized last winter and held regular meetings until the busy season seems to have gone to sleep and is at a low ebb at present.

The Huntington (N. Y.) Horticultural and Agricultural Society held their annual meeting on November 13 and elected the following officers for the coming year: President, Wm. O'Hara; vice-pres., James Kirby; sec., A. H. Funnell; treas., D. Conklin.

PARIS AUTUMN SHOW.

The National Horticultural Society of France has once again held a magnificent exhibition of fruit, vegetables and chrysanthemums in the two large greenhouses in the Cours la Reine. The show opened on the 3rd November and continued to the 11th, but the weather at the beginning was decidedly unpropitious.

At the entrance there was a charming display of chrysanthemums arranged in a bed in the open air contributed by Vilmorin, Andrieux and Co., who also staged an immense collection of vegetables, besides chrysanthemums in great variety. Dahlias were well shown by several of the most important French houses, the chief competitors being Messrs. Cayeux and Leclere who had two very fine lots, Messrs. Rivoire and Son of Lyons and M. A. Brochet who had a nice bright collection set up in small pyramids and although only of medium size, very fine in color—the varieties in almost every case being almost exclusively those of the cactus type. Begonias made a dazzling display and were arranged in half moon shaped beds on the ground level. The chief exhibitors of these were M. Arthur Billard and Monsieur Vallerand, the latter adopting a very effective method by arranging his flowers in diagonal sections of alternate colors. The singles were of large size and of great beauty, two large exhibits coming from this establishment.

There were several interesting displays of primulas by various growers. Cyclamens were shown by M. Aubert Maille and carnations formed a most conspicuous feature of the show. M. Aug. Nonin had a very fine lot which showed he is as well able to grow carnations as chrysanthemums. Messrs. Leveque & Son also had two most attractive lots of this popular flower. M. Ble and H. Mazeau also exhibited carnations in attractive form.

Clematis was staged by M. Geo. Boucher, a well known specialist, and in the orchid room there was the greatest taste possible displayed in the arrangement of the flowers. M. Regnier made a most artistic show interspersed with maiden hair ferns, palms, water lilies, etc. Another good display came from M. Lesneur. The école horticole et professionnelle du Plessis-Piquet set up a charming bed of dracaenas and carnations, among which we noted Miss Nelly, Grande Duchess Olga, Princess de Radziwill, Clair de Lune and Prof. Belle. M. M. Marcoz and Maron also displayed exquisite taste in the setting up of their lots.

Floral decorations were most effective. M. Debric had several composed of chrysanthemums, orchids and carnations that would require an artist well versed in floral decorations to describe. He also set up a magnificent floral arch 20 feet in height, composed of deep bronze and yellow chrysanthemums, dracaenas, palms, ferns, grapes and various autumn foliage with a mirror in rear. Among other curiosities in floral decoration was a wheelbarrow made of bamboo full of enormous yellow chrysanthemums tied up at intervals with buff colored silk ribbon. A ship in orchids and other objects too numerous to mention were also staged in this section.

Fruit as usual was a grand feature, and large numbers of trained fruit trees were arranged in beds along the promenade leading to the show. Here also were exhibits of hardy shrubs. M. A. Brochet showing many fine examples of choice conifers. Messrs. Moser inside also had a nice group of variegated ivies, hollies, bamboos and other similar subjects.

We have neither the time nor the space to deal with the fruit in detail. Apples, pears and grapes were beyond question enormous in extent and variety. The names of M. Nomblat Bruneau and Messrs. Croux & Son are sufficient guarantee of that fact and both in fruit trees and fruit itself they made an excellent display. Another exhibitor was M. Opoix whose pears were set up in fine style. M. Brouder also staged some fine pears and apples.

Chrysanthemums were of course in enormous numbers, and they certainly contributed in no small degree to the success of the show, which was one of the finest and most extensive we have yet seen in Paris. The site is exceptional, being situated just between the Champs Elysees and the Seine in the Cours la Reine just beyond the Alexander bridge. The approach is most attractive and the means of access ample. New seedling chrysanthemums are usually largely shown, and the number of first-class certificates awarded to novelties by the specially appointed floral committee is perhaps rather more considerable than is the case at English shows.

Among the many seedling raisers the exhibit of M. Ernest Calvat usually excites the most interest, and this year he had an excellent lot arranged in an oval bed just opposite the main entrance to the first greenhouse. It will not be possible to describe them all but we noted as the most promising M. Paul Randet a fine large white Japanese, Mme. de la Rocheterie another big white, slightly tinted, S. A. Naceur Bey immense in size deep golden yellow, Pres't Dubost deep salmon rose, Pres't Fallieres another big white, Le Lutin not overlarge but a pretty shade of lilac mauve, Algesiras crimson.

Next to Calvat our interest is concentrated on the Marquis de Pins who has sent out some very noteworthy novelties but as to their merit from an English grower's point of view there seems to be considerable difference of opinion. At any rate some of his earlier seedlings are now in general cultivation and the best of them and especially those seen in France leave little or nothing to be desired. The Marquis is purely an amateur and is more concerned with the obtaining of new tints and coloring than with mere size, and so his collection of new things are not quite so imposing in that respect as those of his older known competitor. Mme. Le Saulnier la Cour is a pretty shade of rosy amaranth with silvery reverse, a big solid flower. Mme. Bougere is also large, color dull rose on a white ground tinted green at the tips. Countesse Alice de Lang is very large pale lilac-rose pink on a white ground. Pallas a big yellow. LeTonkinoise, the largest of all, a spreading flower, color bright rosy amaranth.

By far the grandest display in pot

plants was the one set up by Messrs. Vilmorin, Andrieux & Co., which occupied a vast area. Many of the most popular novelties at the French shows are not known either to English or American growers, and we do not propose to do more than mention a few of those that are the most attractive or the best known. In the Vilmorin groups we particularly admired Ville de Phenice, Tokio, Rouge Poitevine, Louise Bichol, Nippon, Mme. Ed Roger, Duchesse d'Orleans, Nivose, Rose Poitevine, R. H. Pearson, M. Chenon de Leche, Reverie, Aigle d'Or, Victoria and Albert, Mrs. W. Knox, M. Ant. Marmontel, Mrs. Barkley, Lt. Col. Ducroiset, E. J. Brooks, Etoile de Montbrun, Col. W. B. Smith and Ouragan.

Another interesting group but of far smaller dimensions was one from M. George Traffaut of Versailles who showed roses and chrysanthemums grown with the aid of his new chemical manure "Biogine." This exhibit was arranged on a little grass lawn. The chrysanthemums, which were of abnormal dimensions, were mostly well known varieties.

Hastily passing on we can only briefly notice a few of the other exhibits several of which are very prettily edged with a dwarf, little yellow pompon called Gerbe d'Or and a small bright rosy amaranth Japanese of great decorative value known as Baron de Vinols a variety most freely used by the French exhibitors at their shows and which has already thrown several sports none of which to our taste comes up to the parent.

M. Aug. Nonin has a fine group of well known varieties and novelties, some promising ones among the latter being Amateur, Y. des Cognets, Alp. Karr, Globe Blanc, Geo. Robert, Globe de Bronze, Le Gaulois, Mme. Abel Chatenay.

Monsieur Cordonnier stages the most massive blooms in the show. Mme. Vigneau a big white, Aug. Testier yellow and buff, Sensation (immense), Pres't Loubet another giant, Ministre Morgeot a huge yellow Souvenir de Bailleul, Capt. Percy Scott, Mme. Gustave Henry, W. R. Church, and Mrs. C. Harman Payne being most remarkable.

A good display of 150 novelties of 1906 was made by M. Montigny and the Ecole horticole du Plessis-Piquet staged some very nicely grown specimen plants in pots.

M. Leon Cavron had several groups, one of them containing grafted plants and trained pyramids, imitating the Japanese style of culture, but they could hardly be described as a great success.

M. Dubuisson Foubert had a wonderfully fine collection of big blooms. F. S. Vallis was the biggest we ever saw there being seven blooms that measured from 44 to 48 centimeters across. Other varieties in proportion. In conclusion we can only mention that other chrysanthemum exhibits came from M. Liger, M. Laveau, M. E. Decault, M. Jules Cottin and many more besides.

The president of the French republic, M. Fallieres, visited the show and was conducted around by M. Viger, M. Abel Chatenay, M. Philippe de Vilmorin and other officials of the society. C. HARMAN PAYNE.

Seed Trade Topics

There is genuine famine in onion seed when the two largest wholesale houses in the trade announce that they can offer not above two or three varieties excepting in very moderate quantities, and only with general orders. A few of the smaller jobbing houses are still accepting orders, but many of these have picked up seed outside of regular growers. While those who have bought such seed have no doubt used all possible precautions to assure themselves that it was what it was represented to be, there still remains a considerable element of risk in buying seed from practically unknown parties, and many can sorrowfully testify to this, while others are willing to take further chances.

There will be few colored plates in seed catalogues this year, owing mainly to the lithographers' strike. Those who were tardy in arranging for their covers may have to do with plain ones. Never put off till tomorrow what can be done (as well) today, is a particularly appropriate motto for seedsmen who issue catalogues.

The preliminary wholesale lists are late in making their appearance this fall, but they will begin to appear this week and next. It is so late, however, that many will not issue any this year, but will try to get their regular January lists out on time.

It has been several years since any novelty in the vegetable seed line has been introduced of sufficiently overshadowing importance to cause any flutter in the trade, but, according to the horoscope of an astrologer, this is the year to expect something out of the usual, and some joyful surprises are in store not only for the seedsmen, but the farmers and market gardeners. It is hoped public spirit and enterprise will receive due credit and reward.

The recent heavy snowfall has damaged sugar corn left in the field. It would seem as if corn, and particularly sugar corn, should have been housed before this time, but the practice of topping corn and letting it cure on the stock is mainly accountable for its being so often caught by early snows. The practice is confined mainly to the East.

Jerome B. Rice, of the Jerome B. Rice Seed Co., is now in Detroit on business in connection with the firm's branch there. The enormous business of this concern in beans and peas makes the Detroit branch an urgent necessity. Their acreage is mainly in Michigan, though they have some in Wisconsin and Canada. Detroit is the most central point for their purpose, and most of their peas and beans are handled from there. This firm, which does a very large business with the canners, reports a keen demand from these gentlemen for peas of the right varieties, and of pedigree stocks. Other seedsmen and growers are receiving many inquiries, showing that the hunger for good strains of peas is not yet fully satisfied, but those who have peas to sell will do well to dispose of them within the next 60 days.



SPECIAL OFFER NARCISSI

25 Bulbs at 100 Rate.

250 Bulbs at 1000 Rate.

FOR POT CULTURE AND FORCING

	Per 100	Per 1000
Albicans, pure white, double	\$1.75	
Albus Stella, pure white, double	.65	\$5.00
Ard Righ, yellow, double	1.75	
Bicolor Grandee, large flower, similar to Emperor	.90	8.00
Barri Conspicuous, large flower, double	.90	8.00
Cynosure, large flower, double	.65	5.50
Giant Princeps, large flower, low trumpet, double	.75	6.00
Paper White Grandiflora, large flower, double	.90	8.50
Chinese Sacred Lilies, 1000 (1000 bulbs)	\$1.25	per 1000 (1000 bulbs) \$4.50

Lily of the Valley, Begonias, Gloxinias, Fern Balls, and Japan Lilies due to arrive write for prices.

JOHNSON SEED CO., 217 Market St., Philadelphia, Pa.
Herbert W. Johnson, of the late firm of Johnson & Stokes, President

VIEWS IN RAWSON'S NEW SEED STORE. BOSTON.



FLOWER SEED DEPARTMENT.



SHOW AND READING ROOM, DURING FALL SEASON.

REMOVAL NOTICE

H. BAYERSDORFER & CO., Philadelphia, Pennsylvania, THE FLORIST SUPPLY HOUSE OF AMERICA,

beg to announce to their patrons and the trade their removal into new, spacious and up to date quarters, occupying the entire building at

1129 ARCH STREET

where, with most modern facilities and increased working force, they will endeavor to still further improve their already well established record for promptness and reliability.

When in Philadelphia stop in! Make the new centrally located store your headquarters!

ALWAYS WELCOME!

CHRYSANTHEMUMS IN PITTSBURG

The smoky city would be about the last place in the United States where one might expect to see a display of chrysanthemums yet in spite of smoke, soot, and fog, in several of the leading private greenhouses and in the public conservatories of Schenley and Alleghany Parks may be seen exhibitions which are highly creditable to the owners and growers and compare favorably with similar exhibitions in the east. The most remarkable feature of these exhibitions, I think, is their popularity and I imagine that if the management of the conservatories in Schenley Park were to become converted to Mr. Cameron's way of thinking regarding large blooms it would be a tremendous disappointment to tens of thousands of visitors, whose outbursts of enthusiasm and delight over the large blooms are sure indications that with the general public the large chrysanthemum is immensely popular.

In the Phipps' Conservatories, Schenley Park, there is a mammoth display tastefully arranged in four large houses. Special accommodation is provided by the railroad and electric car companies who run excursions, which are taken advantage of by thousands to see the great show.

Several of the private establishments open their greenhouses to the public during the chrysanthemum season and large crowds visit the elaborate and well stocked greenhouses of Mr. Frick where Mr. Fraser has this year an excellent show. At Peacock's where Mr. Jenkinson officiates there is often a large number of visitors, also at Clemson's where Mr. Wiseman has lately assumed charge and at Lauchlan's where the genial Mr. Price has a creditable display.

J. H.

CHRYSANTHEMUMS IN WASHINGTON.

Chrysanthemums are now so plentiful that it will not be surprising if somebody follows the suggestions of the Chinese minister, that chrysanthemum leaves make excellent salad. There can be no doubt as to the interest taken in an exhibit of good flowers by the Washington public, judging from the patronage extended the government shows. These exhibitions, which are annual affairs, seem each year to be increasing attractions.

It would be hard to find a better dis-

play of pompon chrysanthemums than were staged this year by the Department of Agriculture. There were at least fifty to seventy-five varieties, many being truly beautiful pot plants.

The department's display of seedlings was also noteworthy. A yellow, something of the habit of Major Bonaffon, has been named Mrs. Roosevelt. A white seedling has been named Mrs. Donald McLean.

Under the direction of Dr. Galloway, chief of the plant bureau, the department carries on a useful work. All that they discover that is useful to the horticulturist is placed free at his disposal. Visitors to Washington, whether professional or amateur, will be well repaid by spending a day with the horticultural departments of the government. It is now fifty years since George H. Brown succeeded the gifted Downing as landscape gardener. Through all these years the work of beautification has gone steadily forward.

AMERICAN CHRYSANTHEMUMS IN FRANCE.

Owing to the severe competition of Australian and French growers we do not now see many of the American varieties at the English and French shows. A few are still grown in the London Parks and some are evidently still kept in French collections. At one of the big Parisian market grower's nurseries I saw an immense number of Julian Hilpert which I believe was one of Pitcher & Manda's seedlings. This is grown for the French florists and comes in as a late variety for large blooms.

In the groups at the Paris chrysanthemum show it was interesting to note a few of the American seedlings that were once popular on our side of the channel. Col. W. B. Smith was fine as a trained specimen plant; it also appeared in several cases of cut blooms. The Egyptian and Modesto—the latter of which is one of the richest yellows—were also exhibited. William Tricker, bright pink, is perhaps one of the most favorite sorts of American introduction chiefly on account of its color. Mrs. H. Robinson was also shown at Paris, and another variety which I believe is American—Col. Appleton. C. H. P.

At the last meeting of the Florists' Society of Indiana it was decided to hold a flower show in connection with the annual meeting in January.

A MODEL ESTABLISHMENT AT PARKERSBURG, W. VA.

Our illustrations show the new establishment of J. W. Dudley & Son. The main building is 20x60 with a U-Bar conservatory 20x50, 14 feet high.

The main building is finished outside with pressed brick stone, and since this photograph was taken a



EXTERIOR VIEW.

row of evergreens has been planted around the edge of the roof with very nice effect.

The inside walls are finished with white enamel brick with mosaic tile floor to match. All the furniture is white enamel finish with green trimmings on ceiling. The basement is divided into two parts—boiler room and storage and work rooms. Hot water is used for heating.



INTERIOR VIEW.

The store is lighted with one hundred and eighty 16 candle power electric lights and six 50 candle power natural gas lights. The fountain seen in the interior view is constructed of cement and boulders. Gold fish swim in the basin and the whole is illumined with various colored lights.

The location gives 130 feet of glass

ANNOUNCEMENT

We have opened a **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition to our regular wholesale **EVERGREENS** and **FLORISTS' SUPPLIES**

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. **Boston, Mass.**
and 9 Chapman Place,

See our Greens Advertisement on page 000.

L. D. Telephone, Main 2818.

frontage on main streets, thus affording abundant show space, which in the busy season is so valuable to any florist, and which is filled at such times with massed azaleas, poinsettias, begonias, cyclamens, primulas, etc., each occupying an entire window.

The foundations and floors of basement and conservatory are of cement. The cost of the building complete, with walls of sufficient strength for a seven-story building, was \$10,000.

BALTIMORE BREVITIES.

Edwin A. Siedewitz moves to 323 North Charles street this week.

Samuel Feast & Sons will open a branch soon in the new Garage building on Charles street.

The Florists' Exchange expects to be comfortably located in its new building Franklin and St. Paul streets by December first.

Chas. A. Seybold is now located at Carroll Park. His old quarters at Patterson Park are now in charge of N. F. Flitton. J. Boone looks after Clifton Park.

PHILADELPHIA NOTES.

Jno. Welsh Young was permitted to leave the hospital on the 17th. We expect to see him on the Rialto again very soon.

Chrysanthemum Golden Dome. John Macrea's sport from Yellow Eaton, was scored by the committee here last Saturday. It is a much more refined and better finished flower than the parent and scored \$9 commercial. Wm. Weber came from Maryland to see it and other growers have been sitting up and taking notice. It has none of the cabbage effect of the parent Eaton.

The Iowa Floral Co., of Des Moines, Ia., has improvised a mailing tube whereby a bunch of violets, a dozen roses or carnations may be safely sent by mail without being crushed.

HOLLY

Best Delaware Stock, dark green and well berried, delivered by freight, prepaid.

Single case.....\$4.00
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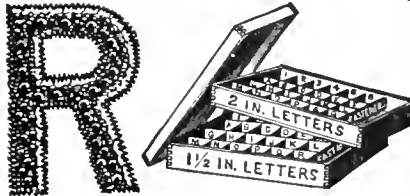
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This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters

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High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada

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SPECIAL SELECTION FOR
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Store open from 7 A. M. to 8 P. M.

BOUVARDIA \$3.00 per 100

WHITE VIOLETS

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LILIES \$2.00 per doz.

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LILY OF THE VALLEY
CARNATIONS

WELCH BROS.

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Beauties. Carnations Violets

Superb Illustrated Supply Catalogue just
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We can care for your cutflower wants to
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AMERICAN BEAUTIES

in the World.

35-37 Randolph St., - CHICAGO, ILL.

Booking Thanksgiving Orders Now.

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO November 19	ST. LOUIS November 12	PHILA. November 13	BOSTON November 22
ROSES				
Am. Beauty, Fan. & Sp.	30.00 to 35.00	20.00 to 25.00	25.00 to 35.00	20.00 to 33.00
" Extra.....	20.00 to 25.00	12.50 to 15.00	20.00 to 25.00	8.00 to 15.00
" No. 1.....	0.00 to 15.00	8.00 to 10.00	15.00 to 20.00	5.00 to 6.00
" Lower grades.....	0.00 to 8.00	4.00 to 6.00	12.00 to 15.00	3.00 to 4.00
Bride, Maid, Glden Gate, F. & S.	6.00 to 8.00	5.00 to 6.00	8.00 to 10.00	4.00 to 8.00
" " " Ordinary.....	2.00 to 4.00	2.00 to 4.00	4.00 to 6.00	1.00 to 4.00
Liberty, Richmond, Fan & Sp.	6.00 to 8.00	5.00 to 6.00	8.00 to 10.00	3.00 to 8.00
" " " Ordinary.....	3.00 to 5.00	2.00 to 4.00	4.00 to 6.00	1.00 to 3.00
Chatenay, Fan. & Sp.	6.00 to 8.00	5.00 to 8.00	0.00 to 8.00	3.00 to 8.00
" " " Ordinary.....	3.00 to 5.00	2.00 to 4.00	4.00 to 6.00	1.00 to 3.00
Killarney, Fan. & Sp.	6.00 to 8.00	..... to .....	..... to .....	..... to
" " " Ordinary.....	3.00 to 5.00	..... to .....	..... to .....	..... to
CARNATIONS				
Fancy.....	3.00 to 5.00	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00
Ordinary.....	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00	1.00 to 1.50
MISCELLANEOUS				
Chrysanthemums, Fancy.....	15.00 to 25.00	5.00 to 40.00	5.00 to 35.00	4.00 to 16.00
" Ordinary.....	8.00 to 12.00	..... to .....	..... to .....	..... to
Cattleyas.....	50.00 to 60.00	..... to	50.00 to	40.00 to 50.00
Lilies.....	12.50 to 15.00	..... to	15.00 to	8.00 to 12.00
Violets.....	1.00 to 1.10	..... to	1.00 to .....	.75 to 1.00
Garageias.....	35.00 to 50.00	..... to .....	..... to .....	..... to
Lily of the Valley.....	3.00 to 5.00	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Mignonette.....	2.00 to 6.00	..... to .....	..... to	1.00 to 2.00
Adiantum Cuneatum.....	.75 to 1.00	1.00 to 1.50	1.00 to .....	.50 to 1.00
" Crowcanum.....	1.00 to 1.50	1.00 to 1.50	1.00 to	1.00 to 1.50
Smilax.....	..... to 12.00	..... to 12.50	15.00 to	8.00 to 12.00
Asparagus Plumosus, strings.....	35.00 to 50.00	25.00 to 50.00	50.00 to 50.00	..... to 50.00
" " & Sprenger bunches	25.00 to 50.00	25.00 to 50.00	50.00 to 50.00	20.00 to 50.00

J.A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and
Carnations
A Specialty.....

WHOLESALE
GROWER OF

CUT FLOWERS

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for samples.

E. A. BEAVEN, Evergreen, Ala.

CUT FLOWER MARKET REPORTS

BOSTON An improved tone in the violet market, attributable to the New York Horse Show or the New Haven football games—one or the other or both—is the only feature in this market of any moment. No doubt the violet will prosper through Thanksgiving week, and maybe till Christmas, after which its troubles will probably commence. Chrysanthemums still hold a prominent place in the public eye, and there is no indication, thus far, of their decadence in either quality or quantity; they are selling, however, at prices far below their intrinsic value, and the average result to the chrysanthemum grower will hardly compare with past records. Carnations are experiencing a better demand, but there is no call that cannot be supplied. Just as soon as the chrysanthemum begins to wane look for better prices on carnations. Roses are abundant and good.

BUFFALO Business was at a standstill the past week and the market was completely overflowed with flowers of all kinds. No scarcity existed whatever. Roses especially were hard to move at any price and even the select grades had a hard road to travel. Beauties and violets were best in demand. Carnations came in more plentiful but prices held firm.

CHICAGO The market is firmer this week; nothing is particularly scarce but prices are keeping up a good average. Stock is good in all lines. We can look forward to a good supply and a good business for the holidays unless severe weather should interfere. Bride roses are a little scarce. American Beauties are not plentiful, and chrysanthemums are beginning to show a considerable shortage as compared with the last two weeks, prices being noticeably higher. Medium flowers of white and pink are somewhat scarce.

COLUMBUS Chrysanthemums still rule the market. The later varieties, such as W. H. and Golden Chadwicks, Timothy and Yellow Eatons, Golden Wedding, Lord Hopetoun, and the ever beautiful Major Bonnaffon hold sway, to the practical exclusion of all other flowers. As regards prices, there will be no changes of any moment until Thanksgiving; after which we hope to hold a better level of prices for the winter season. The whole trade have perhaps had the best week of the season. In regard to fall bulbs they are about cleaned up, or will be by the time the ground freezes for the winter. All energies are being directed to make the Thanksgiving business a great one.

INDIANAPOLIS Favorable weather the past week has greatly improved the quality of all kinds of stock, increased the business and brought chrysanthemums out a little faster

than usual. The better grades have been well cleaned up. An occasional shortage in some lines was noticed but generally the supply was well up to demand. Roses and carnations are in better supply than they have been for some time. Violets are good but not very plentiful. Good lily of the valley is abundant and finds ready sale. Callas and Harrisii lilies are hard to dispose of. Paper white narcissi have made their appearance but only in small quantities.

LOUISVILLE Business conditions last week were generally satisfactory. Carnations have a big call, and are supplied in almost adequate quantities of good quality. Roses have their usual demand, the quality and supply both being satisfactory. There are plenty of fine chrysanthemums, which are finding a good market. Violets, lily of the valley, lilies, etc., all have the usual demands, and there is no lack of stock.

NEW YORK Rather dull market in everything except violets which feel the stimulation of various local events and will do well for a few days at least, and longer if a reasonable policy is followed by growers of this staple. Chrysanthemums are still with us—some good, many not—and their influence is felt keenly by the carnation and rose interests who see light ahead as soon as the chrysanthemum fades away. All are looking to Thanksgiving to stir things up a bit.

PHILADELPHIA White roses shortened up considerably last week. Beauties were of better color and finish on account of the cooler weather and cleaned up nicely. Richmond and Liberty also improved but the demand is still a little slack on these. Carnations are a bit draggy except on the fancy grades and there are but limited supplies of fancies coming in. On the whole the carnation men are not getting quite as good returns this year. Chrysanthemums are still very plentiful although the flux is over. Taking it as a whole supply and demand in the chrysanthemum line this year has been well regulated. All that could be expected has been got out of them and a little more. Cattleyas are scarce and price is up to sixty. Lily of the valley continues of excellent quality and lilies are coming in freely both finding ready sale. Violets are hard to get. The best at present are coming from out-of-town the double fancies bringing a dollar and a half per hundred. Some choice singles in hundred bunches go readily at a dollar

The recent warm spell has caused Beauty growers some alarm. They say it has started the plants to making wood instead of setting buds for the Christmas crop.

SAN FRANCISCO NOTES.

At its November meeting the Pacific Coast Horticultural Society adopted a resolution of thanks to W. S. Tevis, for the interesting inspection of his vast establishment, and toothsome banquet recently tendered the society.

Superintendent McLaren of Golden Gate Park, is in possession of the plans of parks and boulevards for the beautification of Greater San Francisco drawn by Burnham of Chicago, and invites suggestions. President Bigge has appointed five landscape gardeners as a suggestion committee. The meeting also tested a seedling pear, the Winter Bartlett, originated by the late John Rock and voted it a certificate of merit. In the near future the California Nursery Company will place this pear on the market.

The prune growers of California will receive \$2,550,000 more for their crop of 1906 than was obtained by them for the crop of 1905. This is the estimate announced this week by the very extensive prune buying association known to the California trade as the J. K. Armsby Company. The French crop has been half a failure and the Oregon crop is short, and there was no carry-over of stock in either California or in the east at the beginning of the season.

BUSINESS CHANGES.

H. Bayersdorfer & Co., are removing from North 4th street to 1129 Arch street, Philadelphia.

Erhardt & Swartz have opened a new floral establishment in Allegheny Market, Allegheny, Pa. Mr. Erhardt was formerly with E. C. Ludwig.

Thomas F. Matthews has opened at 109 Dorchester avenue, Field's Corner, Boston, a modern-equipped flower store, which he will conduct in connection with his greenhouses at Dorchester.

J. R. A. Sellwood of Milwaukee, Ore., has brought suit against J. H. Reid, ex-fruit inspector. Sellwood disregarded all requests of Reid to spray his trees which were infested with collin moth and San Jose scale, and at last in his official capacity, Reid destroyed them. Sellwood claims that he should have adequate compensation for this action by the State.

Evenden Bros., of Williamsport, Pa., have just finished an extensive greenhouse and made many up-to-date improvements in their other houses. The installation of a new heating plant will complete the work and give them a well equipped establishment for their increasing business.

PLANTS, PALMS and FERNS

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 TELEPHONE 167
 MADISON SQ.

Ready to Talk Business with a Good Lily of the Valley and Bulb Grower

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Nov. 17 1906	First Half of Week beginning Nov. 19 1906		Last Half of Week ending Nov. 17 1906	First Half of Week beginning Nov. 19 1906
Roses			Carnations, Fancy	2.00 to 4.00	2.00 to 4.00
Am. Beauty, fan and sp.	12.00 to 25.00	12.00 to 25.00	Carnations, Ordinary	1.00 to 1.50	1.00 to 1.50
" extra.....	8.00 to 12.00	8.00 to 15.00	Chrysanthemums	3.00 to 15.00	3.00 to 15.00
" No. 1.....	5.00 to 8.00	5.00 to 8.00	Cattleyas	30.00 to 40.00	30.00 to 40.00
" Lower grades.....	1.00 to 3.00	1.00 to 3.00	Lilies	10.00 to 12.00	10.00 to 12.00
Bride & Maid, fan and sp.....	4.00 to 6.00	4.00 to 6.00	Lily of the Valley	1.00 to 4.00	1.00 to 4.00
" Ordinary.....	.50 to 2.00	.50 to 2.00	Violets.....	.50 to 1.00	.50 to 1.00
Golden Gate, Chateaux fancy... ..	4.00 to 5.00	4.00 to 5.00	Alphonette	1.00 to 3.00	1.00 to 3.00
" ordinary.....	.50 to 2.00	.50 to 2.00	Adiantum Cuneatum.....	.50 to .75	.50 to .75
Liberty, fancy.....	5.00 to 6.00	5.00 to 6.00	" Croweanum.....	1.00 to 1.50	1.00 to 1.50
" ordinary.....	1.00 to 3.00	1.00 to 3.00	Smilax	6.00 to 10.00	6.00 to 10.00
Richmond, fancy.....	5.00 to 8.00	5.00 to 8.00	Asparagus Plumosus	25.00 to 35.00	25.00 to 35.00
" ordinary.....	1.00 to 3.00	1.00 to 3.00	" " & Sprenger, bunches	15.00 to 25.00	15.00 to 25.00
Gardenias.....	25.00 to 34.00	25.00 to 33.00			

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WM. STUART ALLEN CO.
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 A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
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\$1.25 per 1000

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The Reliable Commission House
Richmond Roses and Rich Flowers
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New Crop Galax Leaves

SEND ME YOUR ORDERS

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The KERVAN CO. 20 WEST 27th ST., N. Y.

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Fresh cut Palmetto & Cypas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen

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Best Flowers

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Headquarters in Western New York

FOR

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

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Wholesale Commission Florist, also Dealer in Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.
BUFFALO, N. Y.

Give us a trial. We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

Fresh Northern, \$1.00 per 1000.

LYRATA, the best substitute for Smilax, \$7.00 per case.

Headquarters for all FLORISTS' SUPPLIES Wire Designs.

Cut Wire, Letters, Immortelles, Cypas Leaves, Wheat

Sheaves, Ribbons, Corrugated Boxes, etc

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 10 Province St., Boston, Mass.



WHOLESALE FLOWER MARKETS. PER 100. TO DEALERS ONLY.

	CINCINNATI November 13	DETROIT November 17	BUFFALO November 19	PITTSBURG November 19
ROSES				
Am. Beauty, Fan, and Sp.	30.00 to 35.00	45.00 to 50.00	30.00 to 40.00	25.00 to 35.00
" Extra	20.00 to 25.00	35.00 to 40.00	20.00 to 30.00	15.00 to 20.00
" No. 1	15.00 to 20.00	20.00 to 30.00	15.00 to 20.00	10.00 to 15.00
" Lower grade	8.00 to 10.00	20.00 to 30.00	5.00 to 15.00	6.00 to 8.00
Bride, 'Maid, Golden Gate, F. & S.	5.00 to 6.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
" Ordinary	2.00 to 4.00	3.00 to 5.00	3.00 to 5.00	4.00 to 5.00
Liberty, Richmond, Fan, & Sp.	5.00 to 6.00	6.00 to 8.00	7.00 to 8.00	6.00 to 8.00
" Ordinary	2.00 to 4.00	3.00 to 5.00	3.00 to 5.00	4.00 to 5.00
Chatenay, Fancy	5.00 to 6.00	6.00 to 8.00	6.00 to 7.00	6.00 to 8.00
" Ordinary	2.00 to 4.00	3.00 to 5.00	3.00 to 5.00	4.00 to 5.00
Killarney, Fan & Sp.	..... to .....	..... to .....	..... to .....	..... to
" Ordinary	..... to .....	..... to .....	..... to .....	..... to
CARNATIONS				
Fancy	3.00 to 4.00	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00
Ordinary	1.00 to 2.00	2.00 to 3.00	1.50 to 2.00	..... to 1.00
MISCELLANEOUS				
Chrysanthemum, Fancy	4.00 to 20.00	4.00 to 20.00	5.00 to 20.00	15.00 to 20.00
" Ordinary	..... to .....	..... to .....	..... to	3.00 to 10.00
Cattleyas	..... to	50.00 to .....	..... to .....	..... to
Lilies	..... to	20.00 to	5.00 to 15.00	15.00 to 18.00
Violets	..... to 1.00	..... to	1.00 to 2.00	1.00 to 1.50
Gardenias	3.00 to 4.00	..... to .....	..... to	2.00 to 4.00
Lily of the Valley	..... to	3.00 to 5.00	3.00 to 4.00	3.00 to 4.00
Mignonette	..... to .....	..... to	1.00 to 1.50	.75 to 1.00
Adiantum Cuneatum	..... to 1.00	1.00 to 1.50	.50 to 1.00	.75 to 1.00
" Croweanum	..... to .....	..... to	1.00 to 1.50	1.25 to 1.50
Smilax	..... to 12.50	12.50 to 15.00	12.50 to 15.00	10.00 to 15.00
Asparagus Plumosus, strings	..... to 50.00	..... to	40.00 to 50.00	30.00 to 50.00
" & Sprengeri, bunches	..... to 25.00	12.50 to 50.00	25.00 to 50.00	25.00 to 40.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - - BOSTON

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We have moved to our large building at 125 N. 10th Street,

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ACCOUNTANT.

R. J. Dysart, 28 State St., Boston.
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ADIANTUMS.

Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

Adiantum Farleyense, 2 1/2 in. strong stuff, for growing on, or for Fern dish, \$15.00 per 100; \$140.00 per 1,000. J. A. Peterson, Westwood, Cincinnati, O.

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ASPARAGUS.

James Crawshaw, 403 Plainfield St., Providence, R. I.
Asparagus Crawshawii.

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Asparagus plumosus nanus and Sprengeri, 2 1/2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus Plumosa, 2 in. pots. Fine plants. \$2.50 per 100. \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kastlug, 385 Elliott St., Buffalo, N. Y.

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Yokohama Nurseries, 31 Barclay St., N. Y.
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BEGONIAS.

Begonias Gloire de Lorraine and Turford Hall, propagated from leaf cuttings, \$15.00 100; \$140.00 1000; 4-in., \$40.00 100. Cash. J. A. Peterson, Westwood, Cincinnati, O.

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Folding cut flower boxes, the best made Write for list. Holton & Hunkel Co., Milwaukee, Wis.

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Dracaena terminalis from bench, fine \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

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Wm. C. Smith, 61st & Market Sts., Phila.
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FLORAL PHOTOGRAPHS.
Floral Photographs. Foley's 226-228 1-2 Bowery, New York.

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Is Your Name In The Above List? If Not, Why Not?
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FLORISTS' FERTILIZER.

A sample 100-lb. bag of Blawie's Plant Grower and Land Renova. Fertilizer only \$2.75. It is composed solely of pure rose growers' bone meal, nitrate of soda, Peruvian guano, sulphate of ammonia, sulphate of potash and gypsum, in the correct proportions. For benches and potting plants, roses, carnations, lilies, mums, etc., it has never been surpassed. Address The Barwell Agricultural Works, Waukegan, Ills. Established at Leicestershire, England in 1800.

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.
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Young & Nugent, 42 W. 28 St., New York

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Mills, the Florist, Jacksonville, Fla.

Telegraph or mail orders promptly filled

Long distance telephone

connections.

Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.

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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.

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Cochran Mushroom & Spawn Co.

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Orchids for Beginners.

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Fine collection of Best Peonies. Complete Peony and Phtox Manuals, 25 cents each. C. S. Harrison's Select Nursery, York, Neb.

PHOENIX ROEBELINI.

John Lewis Childs, Floral Park, N. Y.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

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Benj. Connell, West Grove, Pa.
Chimson Rambles.
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American Beauties, 2-in., \$55.00; 3-in., \$8.00 1000. Cash. J. Henry Bartram, Landsdowne, Pa.

Roses, Baby Rambler, the strongest dormant stock in the country, \$25.00 per 100; 2 1-2 in. pot plants, \$7.00 per 100, \$65.00 per 1000. Brown Bros. Co., Rochester, N. Y.

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Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

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WILD SMILAX.

E. A. Beaven, Evergreen, Ala.
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SPHAGNUM MOSS.

Live Sphagnum moss, or lid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bags, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash. H. R. Akers, Chatsworth, N. J.

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Wirework. Write for our catalogue
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Ford Bros., 48 West 28th St., New York
For page see List of Advertisers.

**WHOLESALE FLORISTS—Continued
New York.**

H. E. Froment, 57 W. 28th St., New York
For page see List of Advertisers.

Alex. J. Guttman, 43 West 28th St.
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E. C. Moran, 55 West 28th St., New York
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Phillip F. Kessler, 55 W. 26th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York
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James McManus, 42 W. 28th St., New York
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Chas. Millang, 50 West 29th St., New York
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Frank Millang, 55-57 W. 26th St., New York.
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John I. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Traudly & Schenck, 44 W. 28th St., New York.
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Hicks & Crawbuck, Inc., 76 and 78 Court St. Brooklyn, N. Y.
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A. I. Young & Co., 54 W. 28th St., N. Y.
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John Young, 51 W. 28th St., New York.
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Philadelphia.

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
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The S. S. Pennock-Meehan Co., 1608-18 Ludlow St., Philadelphia, Pa.
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Edward Reid, 1526 Ranstead St., Philadelphia, Pa.
For page see List of Advertisers.

Pittsburg.

J. P. Murdoch & Co., 545 Liberty St. Pittsburg, Pa.
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Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
For page see List of Advertisers.

New Offers in This Issue.**AUCTION: BOCK GREENHOUSES.**

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

CATTLEYA GIGAS.

John De Buck, College Point, L. I., N. Y.
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CHRYSANTHEMUM STOCK PLANTS

A. N. Pierson, Cromwell, Conn.
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CHRYSANTHEMUM STOCK PLANTS

Harlowarden Greenhouses, Greenport, N. Y.
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CHRYSANTHEMUM STOCK PLANTS

H. W. Vose, Hyde Park, Mass.
For page see List of Advertisers.

HOLLY: HOLLY WREATHS.

H. Austin, Felton, Del.
For page see List of Advertisers.

REMOVAL NOTICE.

H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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**ROOTED CUTTINGS OF KAISERIN,
PRES. CARNOT, LA DETROIT.**

Rassett & Washburn, Hinsdale, Ill.
For page see List of Advertisers.

WHOLESALE FLORIST.

C. W. Eberman, 53 W. 30th St., New York.
For page see List of Advertisers.

AT AUCTION Every Tuesday and Friday at Noon...

Hardy Dwarf and Tree Roses, also Conifers, Hydrangeas, Boxwood, Magnolias, Pæonies, Bulbs, etc.

W. ELLIOTT & SONS, 201 Fulton St., N. Y.

NEWS NOTES.

Antonio de Lucco has purchased the greenhouses of H. B. Goodnough of Brighton, Mass.

The Storrs Agricultural Experiment Station, Storrs, Conn., are preparing an illustrated bulletin on the apple leaf-miner, a pest that has done such destructive work in the orchards of that State as to require attention. The bulletin can be had upon application as above.

"The Forest Service" is an interesting pamphlet issued by the U. S. Dept. of Agriculture, giving information as to the organization and work of this important bureau of the department. It includes a classified list of the publications of the department on all forestry subjects and the location and area of all national forest reserves.

John Waterer & Sons, Ld. AMERICAN NURSERY BAGSHOT, ENGLAND

have the finest stock of recognized Hardy Rhododendrons, Azaleas, Andromedas, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

John Waterer & Sons are the great exhibitors of Rhododendrons in London.

COMPLETE STOCK OF Fine, Strong Herbaceous Plants ORDER NOW EASTERN NURSERIES M. M. DAWSON, Manager Jamaica Plain, Mass.

LAST CALL SPECIAL LOW PRICES ON BULBS

FRENCH ROMAN HYACINTHS
Per 100 Per 1000
White 13-15 \$3.00 \$28.00
Light Blue 12-15 2.15 19.00

WHITE ITALIAN ROMAN HYACINTHS
Will bloom later than the French 2.25 22.00

NARCISSUS
Paper White Grandiflora . . . 1.00 9.00

LILIUM CANDIDUM
Extra Selected Bulbs . . . 3.75 35.00

LILIUM LONG. MULTIFLORUM
7-9 inch, 300 bulb. in case . . 5.00 45.00

LILIUM LONG. GIGANTEUM
6-8 inch, 400 bulbs in case . . 5.25 47.50
7-9 inch, 300 bulbs in case . . 6.25 60.00

Send for our Wholesale Catalogue of Bulbs, Seeds and Supplies.

HENRY F. MICHELL CO.
1018 Market St., Philadelphia

SURPLUS BULBS
Per 1000

TULIPS Single Bacchus \$11.00
" " Belle Alliance 16.00
" " Chrysolora 6.75
" " La Reine 6.75
" " Pottbakker Scarlet . . . 13.00
" " " White 11.00
" " " Yellow 10.00
" " Yellow Prince 7.00
" " White Hawk 13.50
" " Mon Tresor 12.00
" " Superfine Mixed 6.00
" " Parrot Mixed 6.00
" " Double Rex Rubrum . . . 12.50
" " Superfine Mixed 7.00

NARCISSUS Double Van Sion Double Nose 17.00
" " Single Golden Spur . . . 14.00
" " " Posticus Ornatus . . . 5.00

HYACINTHS White Roman 12/15 . . . 20.00

W. E. MARSHALL & CO.,
146 West 23rd St., NEW YORK

A NOTABLE HOUSE WARMING.
Messrs. Doubleday, Page & Co. gave a Harvest Home and House Warming at their spacious headquarters in New York City on Tuesday afternoon and evening, November 20. A vast concourse of friends specially invited thronged the building, and the entertainment was on a most lavish scale—music and refreshments, flowers, poultry, dogs, moving pictures and exhibitions of all the processes employed in the making of Country Life and other publications of this firm being on the program.

The second floor, where the magazine, photographic and kennel exhibits were placed, were handsomely decorated by the Rosary Company, and among the other exhibits on this floor were carnations from C. W. Ward, F. R. Pierson Co., and A. J. Guttman; ferns, etc., from John Scott, and model plan of an estate by Miss H. C. Bryant. On the third floor was an exhibit of rare interest by the U. S. Department of Agriculture under the supervision of Mr. F. E. Bonsteel. The fourth floor was the scene of demonstrations of half-tone processes, art and mail order departments, and refreshments; on the fifth floor were the binding and mailing departments, and on the sixth the company room and stereopticon views. Other exhibits worthy of special mention were chrysanthemums from C. H. Totty, vegetables from J. M. Thorburn Co., chrysanthemum plants from John Crosby Brown, apples from G. T. Powell, etc.

It was an event happily conceived, well carried out and thoroughly enjoyed by host and guest alike.

As Lease of Land Expires Next Spring Stock Must be Sold at Sacrifice Prices.

All first quality, bushy.

Berberis Thunbergii, 18 to 24 in.	Per 1000	\$40 00
" " " 24 to 30 in.		50 00
Deutzia Gracilis, 12 to 18 in.		35 00
Ligustrum Itota, 18 to 24 in.		28 00
" " " 2 to 3 ft.		35 00
Spiraea Van Houttei, 3½ to 4 ft.		45 00
Kerria Japonica fl. pl., 3 ft.		45 00
Rhodotyus Kerrioides, 2 to 3 ft.		50 00
Viburnum Tomentosum, 18 to 24 in.		50 00
" " " 2½ to 3 ft.		75 00
" " " 3½ to 4 ft.		100 00

And 60,000 other shrubs.

Write for particulars and prices to
THE RHODE ISLAND NURSERIES,
NEWPORT, R. I.

SPECIMEN NURSERY STOCK

Deciduous Trees and Shrubs, Evergreens, Rhododendrons, Azaleas, over one hundred 100 acres of the choicest varieties.

SEND FOR PRICE LIST

COTTAGE GARDENS CO.
Queens, Long Island, - New York

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

CHRYSANTHEMUM STOCK PLANTS.

Appleton, Ivory (pink and white), Maceo, Bonnatton, White Bonnatton, Wannamaker, Jerome Jones, Eaton White. \$5.00 per 100 CASH.

H. W. VOSE, - Hyde Park, Mass.

Tobacco Paper "NICO-FUME" LIQUID
 IS THE **STRONGEST, BEST PACKED, EASIEST APPLIED.**
Furnishes the Most Nicotine for the Money!
OVER 40% NICOTINE
By far the CHEAPEST.
JUST NOTE PRICES!

24 sheets.....\$ 0.75	Pint.....\$ 1.50
144 sheets..... 3.50	1/2 Gallon..... 5.50
288 sheets..... 6.50	Gallon..... 10.50
1728 sheets..... 35.10	5 Gallons..... 47.25

... Manufactured by ...
THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

It's Pushing the Hot Water Around All Right

for the wise growers who installed it this season. Don't you wish it was doing it for you these cold nights?

THE Holly-Castle Co. Circulator
170 Summer St., Boston

GREENHOUSES BUILDING AND PROJECTED.
Additions.

- Whitman, Mass.—W. B. Bowen, one house.
- Athol, Mass.—C. H. Smith, range of houses.
- Middletown, R. I.—J. A. Peckham, one house.
- Northampton, Mass.—John Tilley, one house.
- Woburn, Mass.—John H. Newman, enlarging.
- Council, Conn.—H. E. Lincoln, one house, 20x50.
- Redding, Conn.—L. O. Peck, one house, 22x50.
- Tacoma, Wash.—F. E. Beal, one house, 20x110.

LIST OF PATENTS.

Issued November 6, 1906.

- 834,914. Attachment for Lawn-Rakes. Edward W. Kruse and Leroy Boyd, Higginsville, Mo.
- 834,951. Agricultural Fork. Job Viall, Schaghticoke, N. Y., assignor to Jennie E. Viall, Schaghticoke, N. Y.
- 835,357. Plant and Animal Exterminator. John L. Janeway, Montgomery Co., near Pawling, Pa.

Issued November 13, 1906.

- 835,585. Balling Device for Transplanting Trees. Heinrich Uffman, Hicksville, N. Y.
- 835,621. Appliance for Steaming Plant Beds. John H. L. Johnson, Ashburn, Tenn.
- 835,791. Pruning Shears. Vanrenselaer W. Kelley, Toledo, Ohio.

TWIN CITY NOTES.


A great bulk of peonies has been planted this fall and there seems to be a demand from all parts of the country for the strong, sturdy stock grown here in the Northwest.

The State Agricultural School and Experiment Station at St. Anthony park are making big improvements, and the number of students has increased largely. The courses are broad, and many young women have also enrolled.

Our Anniversary Number, recognized as the best Horticultural Publication of the year, will be issued on December 8. Special Circulation and Superb Colored Plate, but advertising rates the same as for ordinary issues. Booking Advertising Space now. Please Order Early.

PULVERIZED SHEEP MANURE

STARVED ROSE BUSHES NEVER BLOOM
 and the successful florist wants more than the ordinary bloom and stunted stem—he wants all there is in the soil—the bush—the stem—the bloom.
 Don't starve the roots.
 Put away your bushes this fall with plenty of fall and spring food for the roots.
 The richest root food, stem and bloom producer you can use is



Wizard Brand Pulverized Sheep Manure
 It goes further than any other fertilizer, costs less, no waste—no refuse or seeds. Special prices to florists and greenhouse operators.
 Write for Booklet.

The PULVERIZED MANURE CO.
 31 Exchange Ave., CHICAGO
 W. W. RAWSON & CO. Agents for Boston

ESTAB. 1765
A. H. HEWES & CO.
 No. CAMBRIDGE MASS.
 L. I. CITY N. Y.
CATALOGUE FREE

Standard Flower POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money
W. H. ERNEST,
 26th and M Streets, WASHINGTON, D. C.

WANTS, FOR SALE, ETC.
 Advertisements in this column one cent a word. Initials count as words. Cash with order.

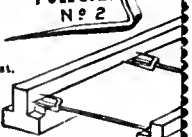
POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—Private place preferred as head gardener. Married; two children; good reference. A. N., care R. & J. Farquhar Co., Boston.

SITUATION WANTED by thoroughly experienced rose grower. Single, sober and reliable. H. E., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—Assistant florist for commercial place, middle W. st. Wages \$30 per month and board. Send copy of references in first letter. Address "G. C." care HORTICULTURE, 11 Hamilton Place, Boston.

Holds Glass Firmly
 See the Point **PEERLESS**
 FULL SIZE No. 2
 Glazing Points are the best. No rights or jobs. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
 714 Chestnut St., Phila., Pa.



Have You Read the Advertisements this Week?

GREENHOUSE MATERIAL

OF ALL KINDS

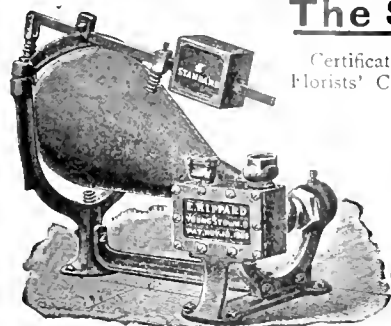
FOLEY MFG. Co. 471 W. 22ND ST. CHICAGO

VENTILATING APPARATUS PURLIN FITTINGS, HOT-BED SASH &c.

SEND FOR NEW FREE ILLUSTRATED CATALOGUE - 

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.
FOLEY MANUFACTURING COMPANY, 471 W. 22d Street, Chicago.

The Standard Steam Trap



Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold thus far this season. Catalogues free.

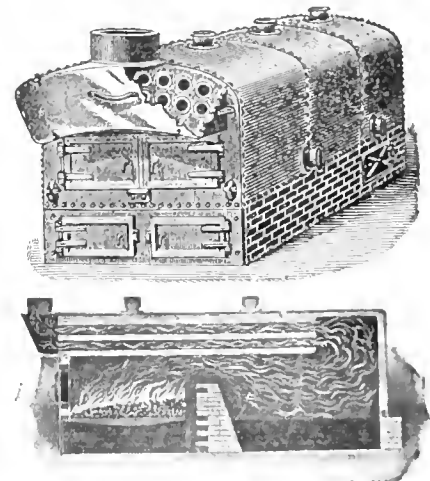
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Kroeschell Bros. Co.

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Greenhouse Boiler,

35 Erie St., CHICAGO.



Boilers made of Steel Boiler Plate; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

WEATHERED COMPANY
 BOX 789, NEW YORK
 GREENHOUSE BUILDING AND HEATING
 Send for Catalogue

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
 GURNEY HEATER MANUFACTURING CO.
 NEW YORK OFFICE, 111 FIFTH AVE. BOSTON OFFICE, 74 FRANKLIN ST.

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST. COR PEARL

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Trademarks and Copyrights

Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS
 PATENT ATTORNEYS
 Box 9, National Union Building
 Washington, D. C.

SEND FOR CATALOGUE OF
**SCOLLAY HOT WATER
 and STEAM BOILERS**
JOHN A. SCOLLAY
 73 and 75 Myrtle Avenue
 BOROUGH OF BROOKLYN, N. Y. CITY

**GREENHOUSE CONSTRUCTION
 LUMBER**
John C. Moninger Co.
 117 E. Blackhawk St., CHICAGO

NOW IS THE TIME TO INSURE
 YOUR GLASS AGAINST DAMAGE
 BY HAIL. For particulars address
John G. Ester, Saddle River, N. J.

CYPRESS SASH BARS

32 feet or longer
 HOT BED SASH
 PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
 NEPONSET, BOSTON, MASS.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

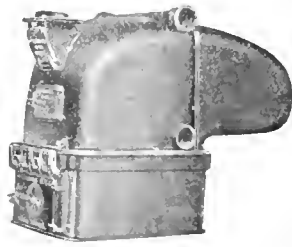
	Price per crate		Price per crate
1500 2 1/4 in. pots in crate	\$4.88	120 7 in. pots in crate	\$4.25
1500 2 1/4 " " " "	5.25	60 8 " " " "	3.00
1500 3 " " " "	6.00		
1000 3 " " " "	5.00	HAND MADE	
800 3 1/2 " " " "	5.80	48 9 in. pots in crate	\$3.60
500 4 " " " "	4.50	48 10 " " " "	4.80
320 5 " " " "	4.51	24 11 " " " "	3.60
144 6 " " " "	7.16	24 12 " " " "	4.80
		12 14 " " " "	4.50
		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.**
 August Rotker & Sons, Agts., 31 Barclay St., N. Y. City.



BOSTON PLATE & WINDOW GLASS CO.
GREENHOUSE GLASS
 German and American
 261 to 287 A St., BOSTON 20-22 Canal St.

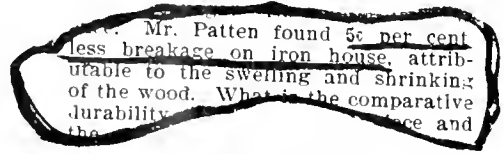
TO BUYERS
 Patronize our advertisers, they will treat you right



The Pith

of this boiler question gets down to the coal question — what does it burn? What heat do you get for the coal you burn? One boiler may have a grate that cuts out the ashes in an "improved" way, and by the same token it will have more ashes to cut out. The more coal you burn, the more the ashes — but do those ashes mean an equivalent in heat? We can prove to you that the Hitchings boiler is the best greenhouse boiler — prove it by what it has proven for others.

HITCHINGS AND CO.
GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Appliances.
1170 Broadway, NEW YORK.



CLIPPED FROM FLORIST REVIEW

The "everlasting repair costs" again — the cost that makes the wooden house cost a good deal more than the Iron Frame House. It costs more in the end — costs more at the beginning because the repair costs crowd up the actual cost.

Send for Iron Frame Circular

LORD & BURNHAM CO.
Greenhouse Designers and Manufacturers
1133 BROADWAY, cor. 26th Street, N. Y.
BOSTON Branch: 819 Tremont Building



YOU may recall that last week we dwelt on the curved eave from its standpoint of unequalled endurance and greatest strength, besides that all-to-be-desired freedom from shade — but the element of attractiveness is an indisputably strong side as well. This cut shows a house — one of four others — that are directly attached to a magnificent residence,

giving a highly pleasing effect. No other construction could so advantageously have been placed. Send for our new catalog.

Pierson U-Bar Company, Designers and Builders U-Bar Greenhouses, Metropolitan Building, Fourth Avenue and 23rd Street, New York.



HORTICULTURE

Vol. IV.

DECEMBER 1, 1906

No. 22



DECORATIVE DAHLIA FIRLBERST

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

CHICAGO CARNATION CO., A. T. PYFER, Manager, Joliet, Ill.
 STILL RETAIN THEIR SUPREMACY AS CARNATION GROWERS
 15 entries at Chicago won us 15 first prizes. Our stock is healthy and the cuttings will be well rooted. January delivery only—
 Red Riding Hood (Scarlet) \$12.00 per 100 \$100.00 per 1000 Aristocrat (Bright Cerise) \$12.00 per 100 \$100.00 per 1000
 White Perfection 6.00 " " 50.00 " " Rose Pink Enchantress 7.00 " " 60.00 " "
 AND MANY OTHERS. SEND FOR LIST.

CHRYSANTHEMUMS

STOCK PLANTS

WHITE
 Early—George S. Kalb, Polly Rose, Willowbrook.
 Mid-Season—Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Alice Bryon, Eureka.
 Late—Mrs. McArthur, Timothy Eaton, W. H. Chadwick.

PINK
 Early—Glory of the Pacific.
 Mid-Season—Pink Ivory, J. K. Shaw, Adela, Mrs. Perrin, Ethelyn, A. J. Ballfour, Wm. H. Duckham, Dr. Enguehard, Marion Newell.

YELLOW
 Early—Monrovia.
 Mid-Season—G. Pitcher, Col. D. Appleton, Golden Gate.
 Late—Major Bonaffon, Mrs. Trenor L. Park, H. W. Reiman.

RED
 Cullingfordill, Matchless.

BROUZE
 Kate Broomhead, Mrs. Duckham.

Late—Maud Dean, Lavender Queen, The Harriott.

Guaranteed to be strong, healthy plants, \$1.00 per doz., \$6.00 per 100.

A. N. PIERSON - Cromwell, Conn.

WE WANT TO GET RID OF THESE STOCK 'MUMS
 Here y to get the space
As an Inducement we will slaughter 5000 at these Rates:
 Polly Rose, Merstham Yellow, Robinson, Appleton, Duckham, Enguehard, Nellie Pockett, Leila Filkins, Bonaffon white and yellow, Maud Dean, Yellow Eaton
 \$3 per 100; \$20 per 1000
 Undivided Stools. No less than 50 at 100 rate, or 250 at 1000 rate.
NOVELTIES: Alice Byron, Clem. Touset, Jeanne Nonin, Roi d'Italie, \$5 per 100.
 Stock Limited. Order Quick.
CASH. HARLOWARDEN GREENHOUSES, Greenport, N. Y.

MABELLE NEW PINK CARNATION FOR 1907
 COLOR—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Law-on. Unlike most Pinks, the brightest sun does not injure the color. **SIZE**—3 to 4 inches in diameter when established. **ODOR**—Pleasant, but not strong. **STEMS**—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. **HABIT, etc.**—A very quick, a live grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires support & very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. **PRODUCTIVE NESS**—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. **Stock Limited. Delivery January 5th to 10th and later.**
Price \$12.00 per 100, \$100.00 per 1000
The H. WEBER & SONS CO., Oakland, Md.

DON'T Be Afraid To Invest In
ROSE PINK ENCHANTRESS
 It is both free and "fancy"—a sure money-maker.
Price \$7.00 per 100; \$60 per 1000
 Delivery January and later. Write for Descriptive Circular.
S. S. SKIDELSKY
 824 No. 24th Street, Philadelphia

	100	1000
RICHMOND ROSE 2 1/4 in.	\$11.00	\$100.00
KAISERIN " "	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
ENCHANTRESS	3.00	25.00
QUEEN and LAWSON	2.00	18.00

E. H. PYE, FLORIST
 UPPER NYACK, N. Y.

GOVERNOR HERRICK
 THE NEW VIOLET
 Originated and introduced by
H. R. CARLTON, Willoughby, O.
 We have the following stock in the finest condition to plant and now is the time to plant:
 2 1/2 inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000
 4 " " 2.50 " " 12 " 100 " 75 " 1000
 It will pay you. Try it. Order at once.

Asparagus Robustus
 The best of all Asparaguses for a pot plant, strong three inch stock at
\$6.00 per 100, \$50.00 per 1000
ALBERT M. HERR, Lancaster, Pa.

DAHLIAS. Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.
DAVID HERBERT & SON,
 Successors to L. K. Peacock, Inc.
ATCO, N. J.

Brockton Dahlia Farm
 Has the largest and finest collection of Dahlias in United States, with prices that will suit the trade. Send for price list.
W. P. LOTHROP, Prop.,
 East Bridgewater, Mass.

IMPERIAL
 NEW PINK VARIEGATED CARNATION
 This novelty has been exhibited extensively and has received 10 Certificates of merit and several Diplomas. It is a free and continuous bloomer and always comes in long stems.
PINK IMPERIAL
 This is of a pleasing pink color, and cannot fail to become a favorite with every grower. It is a sport from Imperial, and has all the good qualities of that variety; its color is magnificent.
These two varieties are my own origination
 Prices: Selected cuttings, delivery commencing in December, 1906.
\$2.50 per doz., \$12.00 per 100, \$100.00 per 1000
 50 at 100 rates, 250 at 1000 rates.
 5% discount for cash with order.
PLACE YOUR ORDER AT ONCE
JOHN E. HAINES, Bethlehem, Pa.
 When writing please mention Horticulture.

LADY GAY
 AND
HARDY GARDEN ROSES
 in choice varieties. Field grown plants, first quality stock including Frau Karl Druscnski. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.
 Catalogue mailed on request.
M. H. WALSH
 ROSE SPECIALIST WOODS HOLE, MASS.

ROOTED CUTTINGS OF
Kaiserin, President
Carnot and La Detroit
 Strong, healthy, well-rooted cuttings, ready Dec. 1st; price \$2.50 per hundred or \$20.00 per thousand.
 Try our strong, healthy, western grown wood from the best corn soil in Illinois.

BASSETT & WASHBURN
 HINSDALE, ILLS.
ARTHUR COWEE
GLADIOLUS SPECIALIST
 Meadowvale Farm
BERLIN, N. Y.
 HAS UNDER CULTIVATION
OVER 100 ACRES
 COMPRISING
 The Best Mixtures, Collections and Named Varieties in Existence.
 Write for 1906 Catalog

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Incomparable Stella	5.50
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Poetleus Ornatus	7.00
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Double Jonquill	8.00
Bicolor Victoria, of great merit	25.00
	\$3.00 per 100,
Barri Conspicuous	8.00
Silver Phoenix	20.00
Mrs. Langtry	10.00
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Per 100.	
Baroness van Tuyll and Mme. Van der Hoop	2.25
Czar Peter	2.50
FINE NAMED, such as Albertine, Gertrude, Grand Blanche, Robt. Steiger, Mme. Van der Hoop, L'Innoceuce, Baron van Tuyll (pink) Marie, Blocksberg, Bonquet Tendre, Flevo, Garrick, Bonquet Royal, La Virginite, Prince of Orange, etc., our selection of varieties \$4.00 per 100, \$30.00 per 1000.	
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Per 1000.	
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Anemones, Single	4.00
Chionodoxa Lucellae	6.50
Grape Hyacinths, blue	3.50
Grape Hyacinths, white	6.50
Spanish Iris, mixed	2.50
Double Ranunculus, French	3.50
Double Ranunculus, Persian	4.00
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Murillo	19.00
Peony Red	10.00
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For other varieties, see our wholesale list, which will be sent on application.

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Cutting one third more than Fair Maid now in the same house. Tested four years.

Debutante

is the name. You can't find a better carnation. Rooted Cuttings ready for delivery after January 1, 1907.

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have the finest stock of recognized Hardy Rhododendrons, Azaleas, Andromedas, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

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EASTERN NURSERIES

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Jamaica Plain, Mass.

Grouping of Plants at Exhibitions

The picture which appeared in your last issue of the first prize group of foliage and flowering plants at Lenox, Mass., was very pleasing. Mr. Heeremans is an artist in his own special way, and deserves praise for his artistic arrangement of this group. Most of us have the habit of putting up groups too flat, and crowded. How beautiful the tall and graceful palms are in the background. If they were set down at the back, level with the other plants, as is so often done when staging groups, the effect would be lost. Most of the plants in this group are shown off to advantage. Just notice how nicely the crotons, pandanus, etc., look when they are raised up; they show off their individuality.

Prizes are offered for groups of plants to fill a given space by the Massachusetts Horticultural Society. At the exhibitions of this society one would get the impression that some of the exhibitors think that the more plants he can get into the given space the better chance he has of winning the prize. This is not the case. He who has the courage to get away from the old way of building up his group like a wall and will show off his plants to advantage has by far the best chance of securing the prize.

Tall growing palms and tree ferns and, in fact, any plant with long graceful leaves or fronds ought to

stand out distinctly above the lower growing plants and show off their beautiful waving leaves. In grouping finish is always important and if possible the group should never be straight. We lack originality and artistic ability in our staging and grouping of plants.

When writing on this subject a word about the table decorations at the last chrysanthemum show in Boston, I hope, will not be out of place. In some ways the table decorations were disappointing. The fine prizes that were offered did not bring out the exhibits that were expected. There was too much sameness about the tables. One would think that the exhibitors, with the exception of one, were all taught in the same school. Another impression that one was liable to get was that fine table decorations could not be made without orchids. This is a great mistake; a person with good taste and artistic ability can, with the commonest flowers, make a beautiful table decoration.

I hope that in another year prizes will be offered for much larger tables and this will give a chance for originality and something quite different from what we saw this year.



Fresh Tomatoes for Christmas

Ripe tomatoes grown under glass, ready for Christmas trade or perhaps sooner, is one of the possibilities of a Grand Rapids grower of farm products. This city is far-famed for the acres and acres occupied by growers of flowers, lettuce, cucumbers, tomatoes, radishes, etc., under glass, but not until now has any one ever attempted or expected to produce ripe tomatoes for trade so early. It is turning a new leaf in local history and well may the venture be watched with deep interest. But there are 5,000 plants already showing prominence, and a continuation of rapid growth. In some of the more advanced plants the tomatoes are the size of an egg now. The one great difficulty of this early forcing has been to secure pollination in the absence of insects. Bees are used when they can be secured in large enough numbers, but are reserved for cucumbers for it has been found they will not work on tomatoes. With the cukes all that is necessary is to open the house and the busy carriers of pollen get to work from blossom to blossom.

In order to make the fruit set it was found necessary to go through the houses from flower to flower armed with a camel's hair brush for the purpose of pollinizing

the stigmas. At first this looked like an impossibility but the job has been conquered and found not so troublesome after all.

It has also been found necessary to sow seed early and so June and July was selected—the variety chosen for this the first experiment being the Globe. When the plants were two inches high they were reset in rows in the big houses, two feet apart, and are watered freely. They are kept pruned to a single stem, no lateral branches allowed to grow. A net work of wire or cord was soon found necessary to support them. It is now found that much care is necessary as the fruit begins to weigh down on the branches.

Strong heat is also found necessary and carefully regulated. The night temperature must not fall much below 60 degrees, and this necessitates all-night fires.

As to flavor and quality there is much speculation, yet no one expects a failure. The greenhouse products here have always been fine.

The first tomatoes heretofore ripened under glass have been in early summer. They brought 20c. a lb. and never went for less than \$5 to \$7 a bushel. They figure that each plant should return \$1.00. The new industry promises to develop rapidly. S.

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NEXT WEEK — Anniversary and Holiday Trade Number, with Colored Plate.

The right spirit and how to manifest it

every fellow

The Thanksgiving spirit is full of cheery contentment and it considers "the other fellow." This reminds us to remind you that this is a good opportunity to renew your subscription; also to tell every fellow craftsman whom you meet how useful

HORTICULTURE is to you. Recognizing more and more that educational work is the great necessity of the present day and realizing the significance of a recent remark by an after-dinner speaker that "the last century was a period of construction and the present century one of adaptation," our readers are advised that HORTICULTURE'S activities will continue on these lines and that the dissemination of really useful knowledge will be the chief purpose of the paper in the future as in the past. To this end our subscribers can assist by helping us to double our subscription list for the coming year.

The present week sees the first important event in the series of special activities in the florist business for the season. Thanksgiving Day has taken on a much greater importance of late years than it had hitherto borne and it remains only for those most interested in its advancement as a floral holiday to nurture and encourage the idea in a liberal spirit avoiding all appearance of a disposition to inflate values or work off inferior stock in the confusion and hustle. Plants and flowers are most appropriate accompaniments of the feasting and good cheer that characterize the great home festival and should be looked upon as just as indispensable as the time-honored roast turkey and there is plenty of evidence that the public are in the proper frame of mind to have this truth brought home to them. Lay plans now while the occasion is fresh in the mind, to double your Thanksgiving Day business next year. It can easily be done.

The "any other color" classes John Thorpe's point in regard to the ill-balanced color classifications on the chrysanthemum schedules is well taken. looking from the standpoint of the chrysanthemum devotee or considering the variety and effect of an exhibit. It is a fact, however, that the public are more eager to admire the odd colors on the exhibition table than to buy them in the store. The sale of stock of new varieties for private conservatory culture has not yet reached that magnitude which would warrant introducers in going heavily into anything outside of the staple colors and forms called for by the commercial trade. It is not the florists' fault that whites, yellows and pinks make up the great bulk of his stock. He carries what the people are most inclined to buy. The schedules of today are a heritage from the period when the large commercial interests were the main factors in many of the chrysanthemum exhibitions and now that the situation has changed the angularity of the prize lists might possibly be modified to advantage and the "any other color" class be divided up as suggested by Mr. Thorpe. It is the experience of the store florists that varietal names are of little consequence to the buyer; yellow is yellow and white is white and if other qualifications of the flower are equally satisfactory it sells, name or no name.

The New Imported Japanese Insect

Early this year field inspectors employed by the Gypsy Moth Office brought in a number of very interesting small cocoons on twigs of pear, maple and other trees found in the Dorchester section of Boston. These cocoons were elliptical, about one-half inch in length by one-third of an inch in diameter, dull gray in most cases, in others beautifully striped with seal brown and white. Not recognizing the insect I sent specimens to Professor C. H. Fernald at Amherst, Mass., who at first was unable to place them. The specimens were taken by him to Washington, where the authorities seemed equally in the dark concerning the insect. Later a large quantity of cocoons was sent to Professor Fernald, and as soon as the moths emerged he was able to identify them as *Myresia flavescens* Walk., a Japanese insect. A further examination of the district where the specimens were found showed that they occurred principally in the vicinity of a nursery, where a large quantity of Japanese shrubs had been grown in recent years. The insects were undoubtedly imported on these shrubs, and escaped and have become colonized in this section. Professor Fernald writes me that this moth occurs in Amurland, Japan, central and northern China, and Corea.

While the life history of the moth has not yet been carefully worked out, it is known that the winged insect emerges in early summer, and that the caterpillars upon the approach of fall spin up in their characteristic cocoons, lie dormant through the winter, and pupate the following spring. The cocoons have been found on several species of maple, the American and Wahoo elms, hackberry, hawthorn, apple, pear and quince. Dr. H. G. Dyar, who has also studied the insect, reports it as occurring at San Francisco and also in Hamburg, Germany, to both of which places it was undoubtedly brought on nursery stock.

The local press has been prompt to exploit this insect as a possible new pest of trees, but the writer is extremely doubtful if it shall ever prove injuriously abundant. The cocoons are conspicuous objects, and even in Boston where native birds are very scarce it is not at all difficult to find numerous cocoons which have been opened by the birds and their contents devoured. While the occurrence of the insect is of considerable scientific interest, particularly as showing the ease with which such forms are transported on nursery stock, there is no evidence to show that it will prove a pest in the generally accepted meaning of the term. Doctor H. T. Fernald has recently made an examination of the infested district, and is now preparing for early publication a brief bulletin giving all the facts concerning it. Should the insect prove over-abundant at any time it can no doubt be easily controlled by spraying with arsenate of lead.

A. H. KIRKLAND,

Superintendent, Gypsy Moth Work.

Specimen Chrysanthemum Mutual Friend



Five and one-half feet diameter, 315 blooms. Grown by James Garthly, Fairhaven, Mass.

Symplocos crataegoides

Late in September or early in October when our native trees and shrubs are bedecking themselves in their autumnal splendor, this Asiatic shrub greets us with its offering of bright blue berries. Although introduced into this country from Japan some thirty-five years ago, it is, even today, seldom seen in our gardens and but little known. It is a broad shrub with spreading branches and attains a height of six to eight feet. The leaves are dark green, of good texture and apparently free from the attacks of insects. The flowers appear in abundance, usually late in May or early in June, and are attractive for a week or so. The individual flowers are nearly one-half inch in diameter, white, sweet-scented and borne in panicles. Following them comes a profusion of fruit. When mature this is about the size of a pea and of the brightest ultramarine. It remains in good condition until touched by a severe frost when its charm of color vanishes. Yet it is true that its abundance may be somewhat reduced by the birds which are fond of its tasteless flesh.

Although the habit is good, the foliage pleasing and the flowers attractive, it is the fruit which makes this plant particularly desirable. Not only is the color of the berry uncommon to shrubs, but it is so clear and pure that it at once challenges your attention and arouses your admiration.

With all these merits and without drawbacks to its cultivation, *Symplocos crataegoides* should certainly be used in all plantations containing the better class of shrubs.

Daniel A. Clarke.

NEWS OF THE CLUBS AND SOCIETIES

NATIONAL COUNCIL OF HORTICULTURE.

A meeting of the National Council of Horticulture was held at the Auditorium Annex, Chicago, Nov. 9 and 10, 1906. There were present Messrs. J. C. Vaughan, C. E. Kendel, W. F. Kasting, Professor L. R. Taft, Professor W. W. Tracy, H. C. Irish, J. H. Burdett, E. V. Hallock and John N. May.

Mr. Burdett gave an exhaustive report on the press bureau work as conducted during the past year after which detailed plans for the continuation of the service were considered. The relative merits of the clipping sheet used by the American Civic Association as compared with the plan of the council by sending mimeograph copies of matter for publication direct to large papers and to press syndicates was discussed and it was voted to continue the latter plan and to begin another series of articles early in the new year.

Reports were made of an unusual demand for certain seeds the cause of which had been traced direct to its exploitation through the press bureau last spring.

A list of subjects to be written up for the coming year was presented by Mr. Kendel, and the secretary was instructed to correspond with nurserymen and florists for further subjects.

A report was read from Mr. Robert Craig on a visit to the Jamestown Exposition Company in the interests of a horticulture exhibition and congress. It showed that the Exposition Company was not in a position to offer cash premiums for a special horticultural exhibition, but in his opinion the project could be successfully carried out if the money was guaranteed by individuals. It was voted to arrange for a horticultural congress at Norfolk during the exposition period, and Professor W. W. Tracy was appointed to draft a call to supplement the one which had been issued and to arrange a preliminary program.

H. C. IRISH, Secretary.

DETROIT FLORIST CLUB.

November 21 was a banner evening for the Detroit Florist Club, the occasion being the annual chrysanthemum show and a paper by Herman Knope on chrysanthemum cultivation. Among the most striking exhibits were: John Breitmeyer's Sons, thirty-five commercial varieties. Fred Pautke had an elegant vase of twenty-five varieties of chrysanthemums, also a very good vase of carnation Enchantress, and elicited a good deal of favorable discussion with his new seedling Asparagus Sprengerii. The Park Boulevard Department made a striking display of specimen pot plants of chrysanthemums, also many beautiful and interesting decorative plants old and new. Other interesting exhibits were well-grown chrysanthemums from T. M. Dickson of Northville and Stabden of Sand Hill, roses La Detroit and Richmond from Robt. Klage, carnations Rose Pink Enchantress from B. Schroeter, Pink Lawson from A. von Boeslager, and Red Riding Hood and Aristocrat from Chicago Carnation Co. E. G. Hill had

sent one vase of chrysanthemum Golden Dome, and one of Mlle. Jeanne Rosette, a Paris novelty. It is to be regretted that these flowers arrived one day too late.

After listening to the very interesting paper of Mr. Knope, the inner man was well taken care of.

MORRIS COUNTY (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

The November meeting was held on the 21st inst, being postponed one week to allow many members to return from various points where they were exhibiting. All appeared satisfied at their treatment away from home and the honors they secured. The Chicago contingent went as far as Denver to breathe the fresh air of the Rockies, and they had a satisfied look when they returned. Twenty members were present. Nomination of officers was the main business. Richard Vince and Robt. M. Schultz are candidates for president, Percy Herbert for vice-president. Wm. Charlton, our veteran treasurer, was reported ill and for the present desired to be relieved from office. Nominations for this office were Wm. Charlton and Wm. Duckham; for secretary, E. Reagan. Vince had a grand vase of carnation White Perfection, securing a cultural certificate. Totty had a dozen Miriam Hanks chrysanthemums, the best of any pinks we saw this year. By request Totty is to tell how the new chrysanthemums showed up at the exhibitions this fall at our next meeting. One new member was elected and three proposed.

E. REAGAN.

ELBERON HORTICULTURAL SOCIETY.

This society held their meeting on November 19, President Robertson in the chair. The questions from the Question Box were very generally discussed. W. D. Robertson was awarded the gold medal presented by George Steele of Shrewsbury Nurseries for the member scoring the highest number of points during the past year for exhibits at the regular meetings; also a certificate of merit for a magnificent specimen of *Microlepis hirta cristata* shown at this meeting. A. Bauer exhibited a good vase of carnation Victory; J. Kennedy hardy chrysanthemums; F. Dittlinger had some nice vegetables.

GEORGE MASSON, Secretary.

NEW ORLEANS HORTICULTURAL SOCIETY.

The New Orleans Horticultural Society held its meeting on November 15 and a fine display of chrysanthemums was made. In addition to the local florists,—Messrs. J. A. Newsham, Abele Bros., M. Cook & Son, Metairie Ridge Nursery Co.,—E. G. Hill Co. of Richmond, Ind., and B. M. Wicher, Gretna, La., were represented. Arrangements were made for a public meeting in Progressive Union Hall, to be addressed by Prof. Newall on Pests and Botany. C. W. Eichling, Paul Abele and J. Steckler were appointed to prepare a memorial on the death of Charles Weis, a charter member of the society. P. A. Chopin, C. B. Panter and R. Eichling were appointed to revise the constitution and by-laws.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of Committees.

Chicago, Nov. 10. Miss Clay Frick. White sport of Duckham. Exhibited by C. H. Totty, Madison, N. J. Scored 91 points commercial scale.

Chicago, Nov. 10. Mlle. Cleabaune. Pink. Exhibited by the E. G. Hill Co. Scored 89 points commercial scale.

Chicago, Nov. 10. Incandescent. Bronze and gold. Exhibited by the E. G. Hill Co. Scored 86 points commercial scale.

Chicago, Nov. 10. Mlle. Semon Jossier. Cream and white, incurved. Exhibited by the E. G. Hill Co. Scored 89 points commercial scale.

Chicago, Nov. 10. Dubuisson Foubert. Light and yellow, reflexed. Exhibited by the E. G. Hill Co. Scored 87 points exhibition scale.

Chicago, Nov. 10. Alice Roosevelt. Cream white. Exhibited by the E. G. Hill Co. Scored 89 points commercial scale.

Chicago, Nov. 10. Detroyet. Silvery pink, reflexed. Exhibited by the E. G. Hill Co. Scored 89 points exhibition scale.

New York, Nov. 10. General Picquart. Lilac, silver reverse. Exhibited by Howard Nicols, Yonkers, N. Y. Scored 85 points commercial and 85 points exhibition scale.

Philadelphia, Nov. 12. Sadie May Stremler. Sport of queen. Exhibited by J. S. Stremler, Princeton, Ky. Scored 81 points commercial scale.

Philadelphia, Nov. 17. Golden Dome. Sport of Yellow Eaton. Exhibited by John A. Macrae, Providence, R. I. Scored 89 points commercial and 86 exhibition scale.

New York, Nov. 17. Golden Dome. Sport of Yellow Eaton. Yellow. Exhibited by John A. Macrae, Providence, R. I. Scored 89 points commercial scale.

Cincinnati, Nov. 14. Sadie May Stremler. Sport of Queen. Exhibited by J. S. Stremler, Princeton, Ky. Scored 74 points commercial scale.

Cincinnati, Nov. 17. No. 34 3-05. Daybreak. Pink, Jap incurved. Exhibited by Nathan Smith, Adrian, Mich. Scored 83 points commercial scale. DAVID FRASER, Secy.

ST. LOUIS FLORISTS' CLUB.

H. C. Irish, president of the St. Louis Florist Club, called a meeting of the officers at the Hotel Rozier on last Thursday night for the purpose of laying out plans for the raising of the flower show fund. Plans were discussed and a substantial amount was subscribed by those present. A program was also mapped out for an interesting meeting the second Thursday afternoon. There were present Carl Beyer, J. J. Bencke, Vice-President Cannon, F. A. Weber, A. J. Bentzen and W. C. Smith.

THE LADIES' AUXILIARY.

Mrs. Charles H. Maynard reports that the ladies are sending in their fees to join the Auxiliary to the S. A. F. and O. H. very promptly, and with their checks come words of congratulation on its success. She writes: "Ladies don't wait; keep me busy, and we will meet at Philadelphia next summer."

SUPPRESSING DUST ON ROADS AND PLAYGROUNDS.

Replying to a question by a reader of HORTICULTURE, Mr. J. A. Pettigrew, superintendent of Boston parks, says that Texas oil is much superior to Pennsylvania oil for dust suppression in that it has a basis of asphaltum, while the basis of the Pennsylvania oil is paraffine. He has tried it in the Park Department on about 12 miles of roadway, first making an emulsion of the oil, using the same formula as he would for making an emulsion for the destruction of scale insects. By this method the oil can be more equally distributed than it can in crude condition, which is a very important matter, as a heavy coating of oil forms an asphaltum coating on the surface which is liable to crack and scale when dried. The mechanical method is a steam boiler and a pump of about 35 gallons a minute capacity. Put the soap chips into barrels, fill the barrels with water and heat with a steam boiler; then pump into the sprinkling carts and add about 65 per cent. of oil, agitating thoroughly. This forms the stock solution, which is used at the rate of 160 gallons to a 600-gallon road-sprinkler full of water. This makes about a 17 per cent. solution of crude oil. Three or four applications of this on the roadway is about the proper amount to use on a macadam roadway which has been previously treated to a cover of about one-eighth of an inch of fine stone dust or river sand, preferably with a suspicion of loam in it. These three or four applications will make an average of about 125-100 pints of crude petroleum per square yard.

His road experiments were completed about eight weeks ago, since which time the 12 miles of roadway treated has been perfectly dustless and has not required any watering. The cost has been about \$235 per mile. While the cost may be about equal to that of watering by the ordinary method of street sprinkling by water, yet the results will be very much more valuable, as the dust is laid day and night, and there are no lunch times, or times when the teamster is negligent, and dusty roads follow as a consequence, for the oil gets in its work all the time. No complaint has been made of the odor; in fact, many people claim that they like it a few days after the first application. The emulsion stock will keep three or four days. Should it separate, reagitrate; possibly it may be necessary to use steam heat, too, to liquefy.

As to the best covering for playgrounds, Mr. Pettigrew says: "We have found no better material than screened cinders make with a little loam to partly bind the surface. The coarser screenings can be laid on the bottom and the finer on top. About 3-8 to 1-2 inch of loam is about the proper amount to lay on the surface and scratch in with an iron rake.

"I have not tried oil for playgrounds, but I am under the impression that it would not be as successful as the material above mentioned. It just occurs to me, however, that should the cinder playground become dusty, a 5 per cent. solution of oil might be sprinkled on the ground to advantage. Our Boston playgrounds are much admired by all and have never given any

trouble on account of dust when surfaced as above indicated.

"The oil when applied as a 15 per cent. emulsion is not sticky at any time; can be walked upon with perfect freedom from any danger of defilement. In wet weather there is an appearance of oil on the surface of the road which, however, does not do any damage, as it does not pick up on the tires of vehicles. I know of no case of spotting of lap robes or carriages by its use.

"Another suggestion: Playgrounds of wide areas, in order to prevent washing should be divided up by drainage areas, and the drainage carried away under ground; in no way can surface water be carried any distance over a smooth and comparatively yielding surface without washing."

TRADE VS. CIVIC IMPROVEMENT SOCIETIES.

A recent editorial in HORTICULTURE raised the point as to how far a trade society such as the average florists' club could aid in giving an impetus to the taste for ornamental gardening among the general public. The civic improvement and allied societies naturally take the lead in this connection because that is exclusively what they are formed for and their membership is mainly composed of people outside the trade. The reading of a paper or essay at florists' club meetings does little good as the most of the auditors are already sufficiently posted.

Three suggestions occur to me wherein we, as tradesmen, might accomplish something:

One. To make it a point to become individually a member of our local civic improvement society in suburban sections and work there for the improvement of local conditions. State or national organizations are of course not so important to the average florist although they may be doing splendid work in their way.

Two. When a paper or essay is read at a florists' club on the subject of home adornment the important thing is to see that the press having a general circulation receive copies of same in advance of its delivery. The cost of these copies should of course fall on the club. It is not so important that the purely trade press receive copies of such essays.

Three. A national movement under competent management on the lines of the one engineered and financed by the American Seed Trade Association should be inaugurated by the florists. The purpose of such a movement would be to furnish continuously and systematically reliable and sensible matter on gardening to the newspapers. Essays read at florists' clubs would come in splendidly for such a movement and receive publicity all over the country.

If there be no civic improvement or horticultural society in your locality agitate for one. A florist doing a local trade has more to gain from the influence of such an organization than any one else.

From the nature of its membership the average florists' club located in a large city is handicapped in work among the general public and outside of the foregoing suggestions it does not appear that much could be done.

G. C. W.

A MONOLOGUE BY ROBERT T. MCGORUM.

If "necessity is the mother of invention" there are some of us who would like to see present necessities bring forth some invention for transporting flowers to market and returning empties free. The flat has gone forth from the express company that farmers and florists shall pay hereafter ten cents on each empty box returned. If goods could be shipped by freight, business could be done much more cheaply but perishable goods must reach the markets in quickest possible time. As everyone is perfectly aware there has been a general turn over in the schedule of rates, etc., since the new interstate commerce laws have gone into effect; no rebates or passes may be given, and nothing carried free, under penalty. It has been alleged that some members of both houses in Washington have been accustomed to have their family washing sent to them free and return the empty boxes filled with congressional records to show their help the speeches that never were made.

Probably it is well that the new law has put an end to this species of graft work, but the general order is going to hurt the shipping trade of the country at large. The grower who is within driving distance of the market is now in luck. The Society of American Florists having been instrumental in getting the 20 per cent. reduction on plant shipments is surely given an exalted place for I am led to believe that this is the only rebate rate that is left on the list. Very soon there will be a great many calls upon the Society for help from those who have been its greatest enemies. Some private gardeners may rant about the S. A. F. and question its usefulness. It's nice to be a private gardener for various reasons, one of which is that one can draw his salary when due and sign an O. K. to bills without having to worry about where the money is coming from, but some of the private gardeners who have gone into the commercial business are calling even a little lonelier now than those who have been in the ups and downs of the latter business for years. Good luck to the S. A. F. and O. H.

In a contemporary there is a discussion participated in by a man with whom business must be very dull. Burbank and Mrs. Eddy are hit but the former is the main target. I am surprised at a man of O'Mara's calibre bringing that good woman, or any denomination of religion into the controversy. Each has his or her own way of looking at things spiritually; leave them to their way of thinking. Looking at Burbank's picture, a few lines from Burns' Ode to Washington fits in very well:

"Where is that brow erect and bold—
That eye that can unmoved behold
The wildest rage, the loudest storm,
That e'er created fury dared to raise."

Perhaps that \$10,000 is the real mark that Mr. O'Mara wishes to hit. I don't know how much salary our friend O'Mara gets, but I know he also holds an appointment as John Birnie's official photographer. I don't know whether or not John pays him in geraniums or cheque; either would be good collateral.

GLADIOLUS HARVARD.



A Coming Winner.

SEED TRADE TOPICS.

Messrs. Rickards Bros., 37 East 19th street, New York, are sending out to all applicants a barometer which tells with infallible accuracy what the weather is.

Columbus, Ohio, reports among recent visitors, Watson S. Woodruff of S. D. Woodruff & Sons, Orange, Conn., Alfred Emerich, representing Vil-morin, Andrieux & Company, Paris, France. Mr. Emerich expressed himself as very well satisfied with his American trip this season.

Saturday evening, November 10, marked the close of the 36th year of business in Des Moines, of the Iowa Seed Co. The event was fittingly commemorated by a two days' Flower Show and opening of their newly modeled store. The Iowa Bird Co., Iowa Floral Co. and the Floral Hill Greenhouse, all of which are branches of the Iowa Seed Co., participated. There was an elaborate decoration and every visitor, of whom there were about 10,000, was presented with a carnation. Mr. C. N. Page has been identified with this company as manager for twenty-five years.

A call from the Park Board of Baltimore, Md., for bids on a list of nursery stock they desired, brought only one reply, and that from the Vanderbilt estate, Biltmore, N. C. As the figures were within the estimated cost the contract was awarded to the millionaire.



SPECIAL OFFER NARCISSI

25 Bulbs at 100 Rate. 250 Bulbs at 1000 Rate.
FOR POT CULTURE AND FORCING.

	Per 100	Per 1000
Albicans, primrose, white, beautiful	\$1.75	
Albus Stella, pure white with yellow cup	.65	\$5.00
Ard Righ, yellow, early flowering	1.75	
Bicolor Grandee, large flower, similar to Empress	.90	8.00
Barri Conspicuus, sulphur and claret, fine	.90	8.00
Cynosure, fine for cutting	.65	5.50
Giant Princeps, sulphur white, yellow trumpet, good forcer	.75	6.00
Paper White Grandiflora, 13-15 c. m.	.90	8.50
Chinese Sacred Lilies, per basket (30 bulbs) \$1.25, per bale (1100 bulbs) \$4.50		

Lily of the Valley, Begonias, Gloxinias, Fern Balls, and Japan Lilies due to arrive — write for Prices.

JOHNSON SEED CO., 217 Market St., Philadelphia, Pa.
Herbert W. Johnson, of the late firm of Johnson & Stokes, President

REAPPRAISEMENTS FILED.

Reappraisements of merchandise made by the board of general appraisers, New York, Monday, Nov. 5:

No. 8755—Azaleas—From the Haerens Co., Somorghen; exported Oct. 6, 1906; entered at New York. File No. 42134. Findings of Sharretts, G. A.: Azaleas Indica, assorted, 10-12, 2-3, entered at .75 franc, advanced to .80 franc each. Add packing and cases. Discount 5 per cent.

Friday and Saturday, Nov. 9 and 10: Nursery Stock.—From Sander & fils, Bruges, exported Sept. 28, 1906; entered at New York. File Nos. 12259-60. Invoice Nos. 998 and 0634. Findings of Sharretts, G. A.: Kentia Belmoreana 2 ft. 6 in. 5-6 leaves 4 yrs., entered at .50 cents, advanced to .55 each. Phoenix Canariensis 1 ft. 6 in.—2 ft. 7-10 leaves 2 yrs., entered at .30 advanced to .35 each. Kentia Belmoreana 3 to 3 1-2 ft., 5 to 6 leaves 4 yrs., entered at 1 doll. each. No advance. Phoenix canariensis 4 ft. to 4 ft. 6 in. 10 to 12 leaves 6 yrs., entered at 7.50, advanced to 8 each (francs), do. 3 ft. 6 in. to 4 ft. 8 in. 10 leaves 8 yrs. entered at 6, advanced to 6.50 francs each. Add packing.

Bulbs.—From H. M. Hardyzen, Boskoop, exported Sept. 29, 1906; entered at New York. File No. 12245. Invoice No. 9676. Findings of Sharretts, G. A.: Paeonia Festiva Maxima, entered at .30, advanced to .35 florins each. Add cases and packing.

Bulbs.—From G. W. Rogers, Yokohama, exported Aug. 27, 1906, entered at New York. File No. 42211. Invoice No. 18784. Findings of Sharretts, G. A.: Longiflorum 7-9, entered at 3.30 yen per 100. No advance.—N. Y. Commercial.

DECORATIVE DAHLIA FIREBURST.

(See Frontsplece.)

To our knowledge this is the largest decorative dahlia offered thus far. It is a seedling of Le Colosse, has broader and longer petals, is more flatly built but of a much more intense scarlet, slightly shaded orange, and produces specimens which measure eight inches and over. Flowers are borne apart from foliage; a valuable characteristic. It is absolutely distinct and must be considered a great novelty. Height five feet. W. W. Rawson & Co., are the introducers.

RAWSON'S HIGH GRADE SEEDS

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Catalogues mailed free

W. W. RAWSON & CO. 5 Union St., BOSTON, MASS.



LILY OF THE VALLEY

"COLD STORAGE"

We have some very choice valley which is in extra fine shape. 'Twill give great satisfaction for

CHRISTMAS FORCING

Plant at once to ensure perfect results.

\$1.75 per 100; per 1000 \$15.00; \$29.00 per case of 2000

SPIREA

	100	1000
Astilboides Floribunda	\$4.25	\$40.00
Japonica	4.00	35.00
Compacta Multiflora	4.50	40.00

The above are ALL LARGE CLUMPS suitable for 6 in. pots and larger.

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Barenbrug, Burgers & Co. are the leading grass seed specialists of Arnhem, Holland. Arnhem has been celebrated for many generations as headquarters for natural grasses. The leading seedsmen of the world look to Arnhem for their supplies of crested Dogstail, Florin, Sweet Vernal, Fescues, Wood Meadow and all fancy grasses for lawns and pastures. Constant growth in any business is proof conclusive that customers receive honorable treatment and full value for their money. Orders from the seed trade are solicited and satisfaction guaranteed. Dr. Stabler's analyses as to purity and germination go with all fancy samples. Write at once to the sole agent for the United States and Canada, George C. Watson, Dobson Building, 9th and Market Sts., Phila.

Our guarantee means something. We are not here today and gone tomorrow. We number among our customers the largest seed houses in the world. Orders should be placed now for spring delivery. Present market rates while without engagement are particularly favorable to buyer. All indications point to greatly enhanced figures in the near future.

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* We desire to announce that we have opened extensive modern rooms at the above address for the purpose of conducting a high grade Seed, Bulb and Plant business.

* The members of our firm are well known, Mr. Rennie having been identified with the trade in this locality for the past twenty years, and Mr. Thomson for a like period, with leading houses in this country, more recently for eight years with R. & J. Farquhar & Co. of Boston. Our combined experience and intimate knowledge of the best sources of supply places us in the position of being able to serve you in an acceptable manner.

* **QUALITY.** The first and foremost consideration in the purchase of seeds is quality. It represents satisfaction or disappointment. We will establish a store that shall be known as headquarters in Providence, if not in the East, for quality and fair dealing. We, therefore, hope by careful attention to business to merit your confidence and enjoy a liberal share of your patronage.

* Our catalogue for 1907 will be issued in January, but meanwhile when you are in need of anything in our line, please favor us. Orders will be filled carefully and promptly at lowest prices.

MUSHROOM SPAWN

We have just received a consignment of English Milltrack Spawn in excellent condition.

Per 100 Lbs., \$7.50.

PURE CULTURE SPAWN

Made in America.

Per 100 Bricks, \$14.00.

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LILY OF THE VALLEY PIPS

Just arrived and are, as usual, the finest imported into this market **no matter under what name.** Send for prices.

SPIRAEA per 100	
Japonica—Extra Strong Clumps.....	\$3.50
Astilboides Floribunda.....	4.00
Compacta Multiflora.....	4.00
Gladstone.....	6.50

LILIIUM LONGIFLORUM

6 to 8 inches.....	\$27.00	\$3.00
7 to 9 inches.....	45.00	5.00
Multiflorum, 6 to 8 inches.....	28.00	3.00
" 7 to 9 ".....	50.00	5.50

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LILIIUM Auratum, Album, Roseum, Rubrum.

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"HORICUM" KILLS SAN JOSE SCALE
Sold by the seed dealers
For fine pamphlet, write to
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Is now open for business.

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In quantity selected in Holland from growers of long experience in the growing of Bulbs for our markets.

Excellent Bulbs Excellent Show Room
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Hyacinths, Tulips, Crocus, Daffodils, Lilies. A large and varied assortment. Send for our Catalogue.

James Vick's Sons,
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HJALMAR HARTMANN & CO.,
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COPENHAGEN, DENMARK.

Comet Tomato

Those who force tomatoes should give "Comet" a trial. This variety has been the talk of gardeners around Boston the past season. Those who have seen it growing declare there's nothing to compare with it.
Seed, \$5.00 per oz. Trade packet \$1.00.

WILLIAM SIM, Cliftondale, Mass.

JAPANESE NURSERY CO. NEW YORK.
THE YOKOHAMA NURSERY CO. LILIES PLANTS
31 BARCLAY STR. BAMBOO STAKES

REMOVAL NOTICE

H. BAYERSDORFER & CO., Philadelphia, Pa.,
THE FLORIST SUPPLY HOUSE OF AMERICA,

beg to announce to their patrons and the trade their removal into new, spacious and up to date quarters, occupying the entire building at

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where, with most modern facilities and increased working force, they will endeavor to still further improve their already well established record for promptness and reliability.

When in Philadelphia stop in! Make the new centrally located store your headquarters!

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DECEMBER 8

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BOOKING ADVERTISING SPACE NOW. PLEASE ORDER EARLY

FLORISTS' EXHIBITIONS.

The idea of having a special store or greenhouse exhibition as a sort of business opener for the fall and winter has gained rapidly in favor each year with retail florists in all parts and is a most excellent one. Well arrayed and generously advertised locally, these pleasant little affairs are good business getters and more than repay all they cost. We are speaking now of the purely commercial displays in retail sales establishments and not of the many delightful exhibitions on private estates, thrown open to the public by their public-spirited owners or the affairs, more or less pretentious, in connection with coffee booths and handiwork of various kinds which church ladies get up every season, all of which do their little share towards a better knowledge and appreciation of the florists' products.

We note below a few of the leading local commercial shows.

H. P. Campbell, Shamokin, Pa., opened a fine show at his Sunbury street store last week.

R. W. Barrows, Meriden, Conn., gave a fine public exhibition at his greenhouses and store last week.

A. M. York, Ripley, Mich., gave the townspeople a rich treat in a chrysanthemum display, the last week in October.

Thomas Troughton, Merrimac, Mass., provided a treat in chrysanthemums for visitors to his greenhouses the past week.

The greenhouses of A. N. Pierson, Cromwell, Conn., have been thronged with visitors throughout the chrysanthemum season.

White's Conservatory, Sandusky, O., was the scene of a brilliant display beginning Wednesday, Nov. 7, and lasting one week.

Bertermann Bros., Indianapolis, Ind., had a show that lasted through the entire week and was visited by thousands of people.

The Ansonia Floral Co., Ansonia, Conn., have been welcoming a large attendance at the chrysanthemum display in their greenhouses.

The Wettlin greenhouses at Hornell, N. Y., were the scene of a chrysanthemum show on Nov. 9 and 10 that eclipsed all former efforts.

John Irvine & Sons, Bay City, Mich., received their friends and customers last week in an unprecedented show of the newer chrysanthemums.

Stuart & Haugh, Anderson, Ind., gave

their fifteenth annual show on November 15, 16, 17. Their spacious houses were aglow with rich color.

Chaterton Warburton, Fall River, Mass., made a special store display on Saturday, Nov. 15. Carnations shared the glory with chrysanthemums.

John F. Horn & Bro., Rittersville, Pa., have been holding their annual chrysanthemum show for the past ten days at their greenhouses and store.

C. Peterson & Sons, Escanaba, Mich., gave a chrysanthemum exhibition last week at their greenhouses, said to be the finest show of its kind ever seen north of Milwaukee.

S. A. Anderson, Buffalo, N. Y., gave an exhibition at his store on Main street, from November 14 to 17. It was a very elaborate display and drew crowds of admiring visitors.

The new store of the Alpha Floral Company, Denver, Colo., was opened on November 16 with a magnificent and artistic exhibition of chrysanthemums, roses, palms and Lorraine begonias.

The store of H. P. Kleinbans at Easton, Pa., was turned into a bower of beauty for Friday and Saturday, Nov. 9 and 10. It was acknowledged to be the finest private display ever attempted in Easton.

The Rosery, Winnipeg, Man., gave a public exhibition on November 8, which was declared to be the best show of chrysanthemums and roses ever seen in Manitoba. Music was furnished by a string band.

The big annual chrysanthemum show of John Breitmeyers' Sons, Detroit, was a success as usual. Their well appointed store was appropriately decorated. All the show varieties, as well as some thirty-five pompon varieties were artistically displayed.

Bertermann Bros., Indianapolis, recognizing the great loss to the community in the omission of a public flower show this fall, have done their best to make up for it by staging an exhibition of great magnitude at their Massachusetts avenue establishment, with many elaborate floral effects. The show lasted two days and was visited by thousands of people.

"HAVE SOMETHING TO SAY AND SAY IT."

"I am very fond of your journal because it does not treat of things in the old hackneyed way, but you and your contributors seem to have something to say and say it."—K. O.

OBSERVATIONS BY UNCLE JOHN.

Good Advertising Material Wasted.

At the Chicago show were several valuable mediums either entirely overlooked or not indicated to the press agent—items such as would have made distinctly drawing cards.

From the Selfridge collection of orchids—*Cypripedium Charlesworthii*, with three open flowers and three buds showing color—worth \$500.

Lincoln Park showed *Cyp. Chamberlainianum* with six flowers, the very finest form; worth \$500, or more.

Pleurothallis tribuloides, a perfect orchid with six leaves, the largest 1 1/4 in. long; total weight of plant, one eighth of an ounce.

Melocactus Comigens; the finest of all the spiny barrel cactuses. These were some of the notable things.

Greater Variety in Color Wanted.

In the class for forty varieties of chrysanthemums, one bloom each, the winning collection contained ten white, sixteen yellow, six pink; thus there were only eight of all other colors. Surely with reflexed maroons, crimsons, oranges, amaranths, purples, reds, and bronze colors, which are also repeated with incurved flowers of great beauty, the reverse of the petals of either silver or gold,—with all this wealth there should not be sixteen yellows nor ten whites permitted in a collection of forty. Make the limit eight yellows and eight whites in collection of forty. I don't see why fifty varieties should not be called for instead of forty.

The Passing of the Single-Stem Pot Plants.

Only one group was shown of these once popular and always desirable and attractive exhibits. Where shows extend over several days, these are among the brightest at the end. There should be classes for all colors, and in numbers of ten and twenty. Where only two prizes are offered in a class of such attractiveness, that may account for the lack of competition.

John Thorpe's Red Brigade.

He raised in 1884 *Pertia* carnation; in 1885, *Lyndhurst* cactus dahlia; in 1886, S. A. Nutt geranium; in 1890, G. W. Childs chrysanthemum.

Suppose that royalties could have been collected on all the plants of the above distributed, if only for the first five years!

ANNOUNCEMENT

We have opened a **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition to our regular wholesale **EVERGREENS** and **FLORISTS' SUPPLIES**

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. **Boston, Mass.**
and 9 Chapman Place,

See our Greens Advertisement on page 593.

L. D. Telephone, Main 2618

RECENT TREASURY DECISIONS UNDER THE TARIFF LAWS.

In the matter of the protest of Max Herman & Co., New York, against the assessment of duty on dyed sea moss for decorating purposes, it is held that this article is subject to duty at 10 per cent. ad valorem.

In the protest of Reed & Keller, a former decision relative to dyed palm leaves has been followed, placing the duty on these goods at 50 per cent. ad valorem.

Protest having been made against the classification of "waterproof crepe paper" for florists' use, as "crepe paper," on the ground that it is an article which was not introduced into commerce until after the passage of the tariff law, the protest has been overruled after an exhaustive hearing, and the assessment on crepe paper at 5 cents per pound and 15 per cent. ad valorem by the collector has been affirmed.

PHILADELPHIA NOTES.

Alexander B. Scott has been laid up for the past three weeks with a severe attack of pneumonia. He is now about again.

Jacob Becker had a three thousand dollar fire at his Chestnut street annex on Sunday night. Commenced in the boiler shed and burned twenty feet down into the range of greenhouses.

Ralph E. Faust of the S. S. Pennock-Meehan Co. was married on the 22d ult. to Miss Ida Elizabeth Keithan of Shenandoah, Pa. The best wishes of Mr. Faust's many friends follow the happy pair.

E. J. Fancourt of the Pennock-Meehan Co., has just returned from his Boston trip and reports good business and a cheerful feeling as to the outlook all along the line.

Wm. Kleinheinz, gardener for P. A. B. Widener has gone on a trip to Europe.

HOLLY

Best Delaware Stock, dark green and well berried, delivered by freight, prepaid.

Single case.....\$4.00
5 cases or more, per case.. 3.50

HOLLY WREATHS

Made from the best dark green Delaware Holly, with four large clusters of bright red berries, per 100, \$10.00.

Cash; Order early and will ship on any date desired.

H. AUSTIN, Felton, Del.

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.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. McCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

P. J. HAUSWIRTH
Temporarily Located
at
13 Congress Street
CHICAGO
AUDITORIUM ANNEX Tel. Harrison 585

SAMUEL MURRAY
Florist
Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO
Both 'Phones 2670 Main

FRED C. WEBER
FLORIST
4326-28 **ST. LOUIS, MO.**
OLIVE STREET
Established 1873
Long Distance Phone Bell Lindell 676



WASHINGTON, D. C.
GUDE'S

Geo. H. Cooke
FLORIST
Connecticut Avenue and L Street
WASHINGTON, D. C.

Have You Read the Advertisements this Week?

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL

571 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

YOUNG & NUGENT
42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

JOHN BREITMEYER'S SONS

Cor. Miami and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER.

11 NORTH PEARL ST., ALBANY, N. Y.

Theodore Miller FLORIST

Long Distance Phones: Bell, Forest 56; Kinloch, Delmar 201
4832 Delmar Boul. ST. LOUIS, MO.

CUT POINSETTIAS
 \$4.00 and \$5.00 per Dozen
HOLLY--Well Berried
 \$4.50 per Case
LEO NIESSEN CO. WHOLESALE FLORISTS
 1217 Arch St., PHILA.
 Store open from 7 A. M. to 8 P. M.

BOUVARDIA \$3.00 per 100
WHITE VIOLETS
 \$2.00 per 100
LILIES \$2.00 per doz.
S. S. PENNOCK-MEEHAN CO.
 THE WHOLESALE FLORISTS OF PHILADELPHIA
 1608-1618 Ludlow St. Store closes 8 p. m.

AMERICAN BEAUTY
 and all other Roses
CHRYSANTHEMUMS
LILY OF THE VALLEY
CARNATIONS
WELCH BROS.
 226 Devonshire St., BOSTON, MASS.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
 MANUFACTURERS
 PHILADELPHIA, PA.

EVERYTHING SEASONABLE IN
CUT FLOWERS
EDWARD REID, Wholesale Florist
 1526 Ranstead Street, PHILADELPHIA
 Store Closes 8 P. M.

CHAS. W. MCKELLAR
 51 WABASH AVE., CHICAGO
 Western Headquarters for Choice Orchids
 Valley Violets and all Cut Flowers

PETER REINBERG
 WHOLESALE
CUT FLOWERS
 51 Wabash Av., Chicago, Ill.
 In writing advertisers, mention Horticulture

BOUVARDIA
W. E. McKISSICK
 Wholesale Florist
 1221 Filbert St., PHILADELPHIA

WHOLESALE FLOWER MARKETS
 TRADE PRICES—Per 100—TO DEALERS ONLY

PITTSBURG
FLORISTS' EXCHANGE
 217-219-221-223 Diamond St.
 PITTSBURG, PA.
 Largest Wholesale House Between
 New York and Chicago.

	CHICAGO November 26	ST. LOUIS November 12	PHILA. November 25	BOSTON November 28
ROSES				
Am. Beauty, Fan. & Sp.	40.00 to 50.00	20.00 to 25.00	35.00 to 40.00	30.00 to 50.00
" Extra.....	25.00 to 35.00	12.50 to 15.00	25.00 to 30.00	15.00 to 25.00
" No. 1.....	15.00 to 20.00	8.00 to 10.00	15.00 to 18.00	8.00 to 12.00
" Lower grades.....	6.00 to 12.00	4.00 to 6.00	5.00 to 12.00	3.00 to 6.00
Bride, 'Maid, Golden Gate, F. & S.	6.00 to 8.00	5.00 to 6.00	6.00 to 8.00	4.00 to 8.00
" Ordinary.....	3.00 to 5.00	2.00 to 4.00	3.00 to 5.00	2.00 to 4.00
Liberty, Richmond, Fan & Sp.	8.00 to 10.00	5.00 to 6.00	10.00 to 12.00	6.00 to 12.00
" Ordinary.....	4.00 to 6.00	2.00 to 4.00	4.00 to 6.00	3.00 to 5.00
Chateauf, Fan. & Sp.	6.00 to 8.00	5.00 to 8.00	..... to	0.00 to 12.00
" Ordinary.....	3.00 to 5.00	2.00 to 4.00	..... to	1.00 to 4.00
Killarney, Fan. & Sp.	8.00 to 10.00	..... to	6.00 to 8.00	6.00 to 8.00
" Ordinary.....	4.00 to 6.00	..... to	3.00 to 5.00	3.00 to 5.00
CARNATIONS				
Fancy.....	4.00 to 6.00	2.00 to 3.00	3.00 to 4.00	3.00 to 5.00
Ordinary.....	2.00 to 4.00	1.50 to 2.00	2.00 to 2.50	1.50 to 2.00
MISCELLANEOUS				
Chrysanthemums, Fancy.....	..... to 25.00	5.00 to 40.00	20.00 to 35.00	12.00 to 16.00
" Ordinary.....	8.00 to 15.00	..... to	8.00 to 12.00	4.00 to 8.00
Cattleyas.....	50.00 to 60.00	..... to	50.00 to 60.00	50.00 to 75.00
Lilies.....	15.00 to 20.00	..... to	15.00 to	8.00 to 12.00
Violets.....	1.50 to 2.00	..... to	1.00 to 2.00	.75 to 1.00
Garuenias.....	..... to .....	..... to	50.00 to .....	..... to
Lily of the Valley.....	3.00 to 5.00	3.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Mignonette.....	4.00 to 6.00	..... to	3.00 to	1.00 to 2.00
Adiantum Cuneatum.....	..... to 1.00	1.00 to 1.50	1.00 to .....	.50 to 1.00
" Crownum.....	..... to	1.00 to 1.50	1.50 to	1.00 to 1.50
Smilax.....	..... to 12.00	..... to 12.50	12.00 to 15.00	8.00 to 12.00
Asparagus Plumosus, strings.....	40.00 to 50.00	25.00 to 50.00	35.00 to 50.00	..... to 50.00
" " & Sprenger bunches	25.00 to 50.00	25.00 to 50.00	35.00 to 50.00	20.00 to 50.00

CHRYSANTHEMUMS
 by the thousand.
Beauties. Carnations Violets
 Superb Illustrated Supply Catalogue just
 out. Send for one.
A. L. RANDALL CO. 19-21 Randolph St.
 CHICAGO.

DAILY CONSIGNMENTS
 From 40 to 60 Growers
 We can care for your cutflower wants to
 advantage.
E. F. WINTERSON CO.
 45-47-49 WABASH AVE., CHICAGO

POEHLMANN BROS. CO.
 Grow and Ship the Finest
AMERICAN BEAUTIES
 in the World.
 35-37 Randolph St., - CHICAGO, ILL
 Booking Thanksgiving Orders Now.

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

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for Samples.

E. A. BEAVEN, Evergreen, Ala.

CUT FLOWER MARKET REPORTS

BOSTON Thanksgiving Day business has surpassed all previous records. Chrysanthemums and carnations are enjoying an especially strong demand, leading the roses in this respect. Chrysanthemums have not, however, made any advance in prices over those prevailing last week. In roses, Bride and Bridesmaid seem to have a little better call than do the other varieties, but there are enough of all to supply every demand. The violet trade is excellent. White carnations lay behind the colored varieties, as might be expected.

BUFFALO Market conditions were much improved over the previous week. Flowers of all kinds were plentiful, especially ordinary roses, which were a drag. The latter part of week better results were obtained all along the line. Chrysanthemums of good quality sold well; also violets, narcissi, Roman hyacinths, lily of the valley, and stevia. Greens are in good supply, with demand normal.

COLUMBUS Conditions could not be more favorable for a fine holiday business for Thanksgiving. As regards stock there will be plenty and good; and with the one exception of carnations, retail prices will show a reasonable profit, and yet be attractive to the customer. One dollar a dozen is about what over-the-counter trade are willing to pay for holiday carnations, but fancy grades that will cost us up to \$6.00 cannot be sold at this. Chrysanthemums will remain about where they have been. Roses will be plenty and of especially fine quality. As the demand for laurel wreathing and other greens is not a heavy one here at Thanksgiving, we have plenty at regular rates. The craft have made preparations for a great business, and there is no question about getting it.

DETROIT Warm, rainy days had a somewhat depressing effect on business, still good stock is cleaned up well; only the lower grades of chrysanthemums move slowly. Beauties and carnations are still very scarce.

INDIANAPOLIS The past week has been dull with the exception of one or two days which kept the retailers on the jump. There are still plenty of chrysanthemums, the large proportion of which are of the better quality and command good prices. The common stock has decreased in quantity, and is no longer a menace. Trade seems to run almost entirely to chrysanthemums. This season carnations are much better and are nearing the quality usually seen at this time of the year. Enchantress is the best variety on the market. Violets are still scarce. Some of the growers who had

excellent success with them last year are cutting but few. That leaves us at the mercy of the New York market, which owing to distance is not altogether satisfactory. Good American Beauty and tea roses seem to be plentiful enough for all demands. Quite a number of orchids are grown here this season, which find ready sale. There is plenty of green stock of all kinds, including boxwood, the latter receiving its full appreciation here.

LOUISVILLE Business conditions were very satisfactory the previous week. Chrysanthemums had a great run, and are nearing their end. Carnations are of a good quality but are hard to secure in quantities, and are quickly taken. Roses are in adequate supply, and have a fair demand. The quality averages good. Violets and lily of the valley as well as other stock sell well, and can be had as needed.

PHILADELPHIA The warm weather of the early part of the week had a bad effect on roses. Most of them were off color and too plentiful. But the market improved materially latter part of week. Brides and Beauties were the best sellers. Liberties and Richmonds are now much improved in quality—with longer stems and larger flowers and are going much better. Chrysanthemums are still plentiful but the market seems able to absorb all the good stock at satisfactory prices. At this writing (Tuesday) the indications are that there will be enough to go around on Thanksgiving Day. Carnations are less plentiful. Some very fine White Perfection are coming in from out of town points. Good prices are being realized for orchids although these seem quite plentiful. There are fine vandas, cypripediums, oncidiums, catleyas and dendrobiums coming in. In violets there is now more local stock arriving but the Hudson River shipments are still necessary. The latter are fine quality.

OBITUARY.

Joseph Bachler who, until ten years ago, was a florist in Allegheny, Pa., died at his home in that city November 19, at the age of 78.

Frank E. Hodgman, Louisville, Ky., died on November 19, aged 70. He was a native of New Hampshire but has been in the florist business in Louisville for the past thirty years. A widow and step-son survive him.

D. W. Brainard of Thompsonville, Conn., has added a spacious exhibition room to his establishment, and remodelled and improved his office and sales department.

NEWS NOTES.

Mr. Knaus, who bought George Leadley's store at Detroit recently, is now fully installed.

It is stated that nearly 8,000 school gardens exist in Austria, not including the sister kingdom of Hungary.

An elaborate Italian garden 40x150 feet is being constructed on the grounds of Bayard Thayer at Lancaster, Mass.

A gold medal has been given by the Rhode Island Horticultural Society to John A. Macrae for chrysanthemum Golden Dome.

R. L. Goinsalvos of Waltham, Mass., is having a salesroom handsomely equipped on Chestnut street for his growing business.

One of the buildings of the C. L. Watrous nursery, S. 9th street, Des Moines, Iowa, was destroyed by fire November 16. Loss, \$3,000.

Chas. Connon has opened a retail store in one of the big department stores at 6th street and Washington avenue, St. Louis, Mo.

Wm. C. Smith & Co. have bought out the wholesale commission house of Frank M. Ellis, 1316 Pine street, St. Louis, Mo., and will continue the business.

A housewarming given in the Forest Park greenhouses, St. Louis, on the completion of the two new houses, was the occasion for the presentation of gold watches to George Ostertag, general superintendent and John Ratchford, keeper of the park. The presentation speech was made by H. Vernheyem of O'Fallon Park.

Piedmont Heights, a suburban section of Oakland, on the east side of San Francisco bay, is rapidly becoming a swell residence location for San Francisco business men. In the center of this spot H. M. Sanborn has had his large and famously fine nursery for a quarter of a century, but it will not be there many weeks more. A big price has been paid for the grounds by parties who want to build homes there. Mr. Sanborn has bought a tract of land nearer in the center of Oakland, adjoining to the Cox Seed Company's nursery, and will shortly remove to this new site his nursery stock and range of greenhouses.

William J. Smyth FLORIST

Cor. Michigan Ave. and 31st St., CHICAGO

We ship to all points in Illinois and Iowa.

Phones: Douglas 744, Douglas 523, Douglas 740

PLANTS, PALMS and FERNS

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CHAS. W. EBERMAN
53 West 30th St. - NEW YORK
Wholesale Dealer

FRANK MILLANG
Wholesale Commission Florist
COOGAN BUILDING
65-57 W. 26th Street, NEW YORK
Tel 299 Madison Sq. Open 6 A. M. to 5 P. M.

FORD BROTHERS
48 West 28th Street, NEW YORK
FINE ROSES FANCY CARNATIONS
A Full Line of All CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

Alexander J. Guttman
The **WHOLESALE FLORIST**
of **NEW YORK**
Phone 1664-65 Madison square 43 W. 28th Street

HICKS & CRAWBUCK, Inc.
Wholesale Commission Florists
and Jobbers in Florist's Supplies
76 AND 78 COURT STREET
BROOKLYN, N. Y.

**WHOLESALE
COMMISSION
FLORIST**
Open 6 a. m. Daily

J. K. ALLEN

106 W. 28 St.,
NEW YORK
TELEPHONE 167
MADISON SQ.

Ready to Talk Business with a Good Lily of the Valley and Bulb Grower

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Nov. 24 1906	First Half of Week beginning Nov. 26 1906		Last Half of Week ending Nov. 24 1906	First Half of Week beginning Nov. 26 1906
Roses			Carnations, Ordinary	1.50 to 2.00	1.50 to 2.00
Am. Beauty, fan and sp.	30.00 to 40.00	50.00 to 60.00	Chrysanthemums, fancy.....	..... to 30.00	..... to 25.00
" extra.....	15.00 to 25.00	25.00 to 35.00	" ordinary.....	3.00 to	3.00 to
" No. 1.....	6.00 to 10.00	8.00 to 12.00	Cattleyas	50.00 to 75.00	50.00 to 75.00
" Lower grades.....	2.00 to 4.00	3.00 to 5.00	Violets	1.00 to 2.00	1.00 to 1.25
Bride, 'Maid, Golden Gate, fan & sp	8.00 to 10.00	8.00 to 10.00	Lilies	12.00 to 16.00	10.00 to 12.00
" " ordinary.....	2.00 to 5.00	2.00 to 5.00	Gardenias	15.00 to 50.00	25.00 to 50.00
Liberty, Richmond, tancy & special	10.00 to 12.00	10.00 to 12.00	Lily of the Valley	2.00 to 4.00	3.00 to 4.00
" " ordinary.....	1.50 to 3.00	2.00 to 4.00	" Mignette.....	..... to .....	..... to
Chatenay fancy and special.....	8.00 to 10.00	10.00 to 12.00	" Adiantum Cuneatum.....	..... to 1.00	.50 to 1.50
" " ordinary.....	1.00 to 3.00	2.00 to 4.00	" " Crocceanum.....	..... to 1.50	..... to 1.50
Kilparney, fancy and special.....	5.00 to 8.00	10.00 to 12.00	Smilax	10.00 to 15.00	10.00 to 15.00
" " ordinary.....	1.50 to 3.00	2.00 to 4.00	Asparagus Plumosus, strings ..	25.00 to 50.00	25.00 to 50.00
Carnations, Fancy.....	3.00 to 4.00	3.00 to 5.00	" " "& Sprengeri, bunches	15.00 to 35.00	15.00 to 35.00

ORCHIDS AT ALL SEASONS
WM. STUART ALLEN CO.
Commission Merchants in Cut Flowers
53 WEST 28TH STREET, NEW YORK
Telephone 356 Madison Square

Edward C. Horan
Wholesale Florist
55 WEST 28th ST.
Tel. 1462 1463 Madison Sq. New York

JOHN I. RAYNOR
Wholesale Commission Florist **SELLING AGENT FOR LARGEST GROWERS**
A full line of Choice Cut Flower stock for all purposes. Comprise every variety grown for New York market, at current prices
TEL. 1998 MADISON SQUARE 49 W. 28 St., New York City

Walter F. Sheridan
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
39 West 28th Street, New York
Telephone: 3532-3533 Madison Square

HEADQUARTERS FOR NOVELTIES
ORCHIDS A SPECIALTY
THE HIGHEST GRADE OF **VALLEY** ALWAYS ON HAND
GARDENIAS, DAISIES, ROSES AND CARNATIONS
Telephone
JAMES McMANUS, 759 Mad. Sq. 42 W. 28th St., New York

H. E. FROMENT Successor to Wm. Chormley
Wholesale Commission Florist
CHOICE CUT FLOWERS
57 West 28th St. New York.
Special Attention to Shipping Orders Telephones: 2200, 2201, Madison Square Write for Current Prices

TRAENDLY & SCHENCK
WHOLESALE FLORISTS
Furnish best stock at fair prices all the year round Send for quotations on fall orders
Tel. 798-799 Madison Sq. 44 West 28th Street, New York City

Charles Millang
50 West 29th St., New York City
Cut Flowers on Commission
A Reliable Place to Consign to or order from
Telephone: 3860-3871 Madison Square

A. L. YOUNG & CO.
WHOLESALE FLORISTS
54 West 28th St., NEW YORK
Telephone 3559 Madison Square
Consignments of choice cut flowers solicited.
Prompt payments. Give us a trial.

In writing to Advertisers kindly mention Horticulture



**EXTRA FINE
NEW CROP**

FANCY FERNS

\$1.25 per 1000

GREEN GALAX \$1.25 per 1000

Discount on Larger Orders

Let us have your standing order for Fern. Will make price right all through season

Wholesale Florists
38-40 BROADWAY, . . . DETROIT, MICH.

Michigan Cut Flower Exchange

WM. DILGER
Manager

Formerly Miami Avenue

Send for Our Weekly Price List on Cut Flowers

JOHN YOUNG
WHOLESALE FLORIST

Finest American Beauties and Carnations

51 West 28 St. - NEW YORK

The Reliable Commission House
Richmond Roses and Rich Flowers
of all varieties

JOS. S. FENRICH

110 W. 28th Street, New York
Tel. 324-325 Madison Square

Established 1891

BUY FROM SHIP TO TRY

ME

ALFRED H. LANGJAHR

All Choice Cut Flowers in Season

55 West 28th St., New York

Telephone 3924 Madison Square.

J. B. Murdoch & Co.

Wholesale Florists

FLORISTS' SUPPLIES

545 Liberty St., PITTSBURG, PA.
Long Distance Phone 1435 Court.

**FOR GOOD PRICES
AND CASH RETURNS**

send your flowers to

Phil. F. Kessler

55 West 26th Street, New York.
Telephone 2921 Madison Square.

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Glassware Decorative Greens and Florists' Requisites.

New Crop Galax Leaves

SEND ME YOUR ORDERS

C. W. CALDWELL, Manager

GALAX, VIRGINIA

(SUCCESSOR TO BLAIR GROCERY CO.)

The KERVAN CO.

20 WEST 27th ST., N. Y.

WHOLESALE DEALERS

Fresh cut Palmetto & Cycas Palm Leaves, Galax, Leucothoe, Ferns and Mosses. All Decorating Evergreen

ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building

28 STATE ST., BOSTON
Telephone, Main 58

Best Flowers

in the Boston Market

N. F. MCCARTHY & CO.

84 HAWLEY STREET
BOSTON, MASS.

SEND FOR PRICES

Headquarters in Western New York

ROSES, CARNATIONS

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist, also Dealer in Florists' Supplies and Wire Designs.

383-87 ELLICOTT ST.
BUFFALO, N. Y.

Give us a trial. We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

Fresh Northern, \$1.00 per 1000.

LYRATA, the best substitute for Smilax, \$7.00 per case.

Headquarters for all FLORISTS' SUPPLIES. Wire Designs, Cut Wire, Letters, Immortelles, Cycas Leaves, Wheat Sheaves, Ribbons, Corrugated Boxes, etc

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 10 Province St., Boston, Mass. L. D. Telephone, Main, 2613.



WHOLESALE FLOWER MARKETS. — PER 100. TO DEALERS ONLY.

	CINCINNATI November 13	DETROIT November 26	BUFFALO November 26	PITTSBURG November 25
ROSES				
Am. Beauty, Fan, and Sp.	30.00 to 35.00	6.00 to 8.00	40.00 to 50.00	30.00 to 50.00
" Extra	20.00 to 25.00	4.00 to 5.00	30.00 to 40.00	40.00 to 50.00
" No. 1	15.00 to 20.00	4.00 to 5.00	20.00 to 25.00	15.00 to 20.00
" Lower grade	8.00 to 10.00	2.00 to 3.00	10.00 to 20.00	10.00 to 20.00
Bride, 'Maid, Golden Gate, F. & S.	5.00 to 6.00	4.00 to 8.00	8.00 to 10.00	8.00 to 10.00
" Ordinary	2.00 to 4.00	2.00 to 3.00	4.00 to 8.00	3.00 to 4.00
Liberty, Richmond, Fan, & Sp.	5.00 to 6.00	4.00 to 8.00	8.00 to 10.00	8.00 to 12.00
" Ordinary	2.00 to 4.00	2.00 to 3.00	4.00 to 10.00	10.00 to 12.00
Chatenay, Fancy	5.00 to 6.00	4.00 to 8.00	8.00 to 10.00	4.00 to 8.00
" Ordinary	2.00 to 4.00	2.00 to 3.00	4.00 to 8.00	4.00 to 8.00
Killarney, Fan & Sp.	5.00 to 6.00	4.00 to 8.00	8.00 to 10.00	4.00 to 12.00
" Ordinary	2.00 to 4.00	2.00 to 3.00	4.00 to 8.00	4.00 to 12.00
CARNATIONS				
Fancy	3.00 to 4.00	4.00 to 5.00	4.00 to 5.00	4.00 to 6.00
Ordinary	1.00 to 2.00	2.00 to 3.00	2.00 to 4.00	2.00 to 3.00
MISCELLANEOUS				
Chrysanthemums, Fancy	4.00 to 20.00	25.00 to 30.00	15.00 to 20.00	6.00 to 25.00
" Ordinary	1.00 to 2.00	6.00 to 20.00	8.00 to 15.00	1.00 to 2.00
Cattleyas	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Lilacs	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Violets	1.00 to 2.00	1.00 to 2.00	1.50 to 2.00	1.50 to 2.00
Gardenias	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Lily of the Valley	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Mignonette	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Adiantum Cuneatum	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
" Croweanum	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Smilax	12.50 to 15.00	12.50 to 15.00	15.00 to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	50.00 to 50.00	35.00 to 35.00	40.00 to 40.00	35.00 to 50.00
" " & Sprenger, bunches	25.00 to 25.00	2.50 to 2.50	35.00 to 35.00	40.00 to 50.00

Geo. A. Sutherland Co.

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Asparagus Crawshawll. Asparagus plumosus banns and Sprengerl. 2 1/2-in., \$2 50 100. Carl Hagenburger, West Mentor, Ohio.

Asparagus Plumosa, 2 in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erle Floral Co., Erle, Pa., or Wm. F. Kastlung, 385 Ellicott St., Buffalo, N. Y.

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Begonias Gloire de Lorraine and Turnford Hall, propagated from leaf cuttings, \$15 00 100; \$140.00 1000; 4-in., \$40.00 100. Cash. J. A. Peterson, Westwood, Cincinnati, O.

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Telegraph or mail orders promptly filled.
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SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales, \$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
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Weathered Co., 46 and 48 Marlon St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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J. C. Moulting Co., 421 Hawthorne Ave., Chicago.
The Chicago Lifter.

VIOLETS.

H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue.
Holtz & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.

Boston.

N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Roblison & Co., 15 Province St., Boston.
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George A. Sutherland Co., 34 Hawley St., Boston.
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Welch Bros., 226 Devonshire St., Boston.
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Buffalo.

Wm. F. Kastling, 383-87 Ellicott St., Buffalo, N. Y.
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Chicago.

J. A. Budlong, 37 Randolph St., Chicago.
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Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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A. L. Randall Co., 19-21 Randolph St., Chicago.
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E. F. Winterson Co., 45-49 Wabash Ave., Chicago.
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Poenmann Bros. Co., 35 Randolph St., Chicago.
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Detroit.

Michigan Cut Flower Exchange, 38 & 40 Miami Av. Wm. Dilger, mgr.
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New York.

J. K. Allen, 106 W. 28th St., New York.
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Wm. Stuart Allen Co., 53 W. 28th St., New York.
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C. W. Eherman, 53 W. 30th St., New York.
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WHOLESALE FLORISTS—Continued
New York.

J. S. Feurich, 110 W. 28th St., New York.
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Ford Bros., 48 West 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 West 28th St.
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E. C. Horan, 53 West 28th St., New York.
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Phillip F. Kessler, 55 W. 26th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McMauss, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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Frank Millang, 55-57 W. 26th St., New York.
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John I. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Fraendly & Schenek, 44 W. 28th St., New York.
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Hicks & Crawback, Inc., 76 and 78 Court St. Brooklyn, N. Y.
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A. L. Young & Co., 54 W. 28th St., N. Y.
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John Young, 51 W. 28th St., New York.
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Philadelphia.

W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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The S. S. Pennock-Meehan Co., 1608-18 Ludlow St., Philadelphia, Pa.
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Edward Reid, 1526 Ransstead St., Philadelphia, Pa.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
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New Offers in This Issue.

ASPARAGUS ROBUSTUS.

Albert M. Herr, Lancaster, Pa.
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CARNATIONS.

F. Dorner & Sons Co., Lafayette, Ind.
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DOUBLE CUT PRUNING SHEARS.

Rhodes Mfg. Co., Grand Rapids, Mich.
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HIGH GRADE SEEDS.

W. W. Rawson & Co., 5 Union St., Boston.
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LILY OF THE VALLEY PIPS.

J. M. Thorburn & Co., 33 Barclay St., New York.
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LILY OF VALLEY, SPIRAEA.

H. F. Michell Co., Philadelphia.
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NEW SEED STORE.

Rennle & Thomson, 135-37 Washington St., Providence, R. I.
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RETAIL FLORIST.

William J. Smyth, Michigan Av. & 31st St., Chicago.
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FRENCH NATIONAL CHRYSANTHEMUM SOCIETY.

This society which makes a practice of holding its annual convention in a different town in France every year selected the old Norman town of Caen for its eleventh convention. In conjunction with the Horticultural Society of Caen a very excellent show was held from the 7th to the 11th of November.

The show was held in the Salle des Fetes of the Hotel de Ville, a portion of it being held in the courtyard under canvas awnings while the conifers, hardy ornamental trees, shrubs and fruit trees were exhibited in the open square facing the Hotel de Ville.

As is customary at French shows there was a large number of gentlemen elected to form the jury. They are then divided into sections, and each section has allotted to it the awarding of the various prizes in the classes provided for by the schedule. Mr. Harman Payne was appointed president d'honneur, M. Aug. Nonin president effectif, and M. Ph. Rivoire secretaire-general.

Seedlings formed an important part of the show and among the principal exhibitors in this section came M. Ernest Calvat who had a fine lot of blooms, fourteen varieties in all exhibited in vases, five or six blooms of a sort. Some were varieties showed at Paris but there were others that were new to us. Mme. Mathien is a very large Japanese full and double, rather narrow florets but of good build, color pure golden yellow. Gouverneur Gallieni is another double flower an incurving Japanese with narrow grooved florets color golden bronze shaded old rose. Mme. A. Velle Desmesirets is a big one with rather broad florets, color creamy white slightly tinted. Mlle. Jeanne de la Crouee is very large, something in the style of the English variety Mrs. Coombes in color. Petit Emile is a rather stiff built reflexing Japanese, medium florets, a pretty shade of pale blush. Gouverneur Lommart is very large—it has long drooping florets of medium width, color pure golden yellow. In Tunis we have a flower of great solidity but not overlarge, neat in build, florets rather broad; the color is pale blush. Roi d'Yvetot a big solid Japanese but the florets are quilled; pure golden yellow shaded crimson.

Another seedling grower present was M. Alfd. Chautrier, who told us that in one hour he had 3,000 of his plants and their covering blown down in a storm. He nevertheless showed a creditable selection of seedlings, among which we noted la Soutilla a Japanese incurved with grooved pointed florets, very full and double, color amaranth, reverse silvery. Montagne d'Aspenin, a pretty Japanese of the truest type, color a pretty shade of pale lilac purple. Col. Labouehere we consider the finest novelty in the show. A grand, massive incurved flower of the old type, perfect in form and deep in build; florets very broad and grooved, and arranged in perfect regularity; color pure rich golden yellow. Colosse Pyreneen is also large but belongs to the Japanese section, color rosy purple. Le Clos Skabel a big incurved Japanese, silvery rosy purple inside florets

deeper. M. Chautier adopted a new practice, viz.: that of adding to his labels besides the name a description of the color of each flower according to the Repertoire des Couleurs, a work recently published by the society, and already mentioned in the columns of HORTICULTURE.

M. Rozain Boucharlart of Lyons also staged a collection of seedlings rather small in size but containing some good colors.

The cut blooms and the pot plants were all arranged in beds on the floor with a wooden edging painted green. The bottles containing the former and the pots were covered with sawdust, and then green moss was laid on the top. In cut blooms they mostly had several inches of stem with foliage, with labels either tied to the flowers or else on sticks in front.

M. Ferd. Couillard had a fine lot of cut blooms hors concours, arranged in a circular group. The finest were Prest. Viger, Prest. Loubet, F. S. Vallis, Lt. Col. Ducroiset, Mrs. Coombes, Sapho, Jean Calvat and Wm. Duckham. M. Charves also had a fine lot in which we noted Calvat's Sun, Embleme Poitevine, Wm. Duckham, a hairy variety Alexis Dessarps of incurved form fine golden yellow, Mrs. J. Dunne, etc. A prize of honor was awarded to M. Ch. Gervais for 100 cut blooms. M. Montignay of Orleans exhibited a collection of 110 novelties of 1906; they were interesting as such but were hardly grown up to our ideas of show standard. M. Leon Cavron had a lot of plants in pots—specimen plants freely flowered. He also showed as he did at Paris a number of grafted plants and several pyramids in tubs grown a la Japonaise. M. Rosette of Caen put up a large oval bed hors concours. He too had some fine cut blooms principally varieties known to French growers.

In the courtyard a grand display was made by Messrs. Vilmorin, Andrieux & Co., who staged specimen plants in pots. This exhibit was awarded the grand prize of honor. M. L. Gautier exhibited a collection of strawberries in pots and M. Rosette showed a neat little collection of hardy chrysanthemums for outdoor culture.

In the Square opposite Messrs. Letellier et fils had a very large collection of fruit trees, conifers and ornamental shrubs. They also had inside a pretty decorative foliage group, and another of peony-flowered dahlias. M. L. Davy had a similar collection, fruit trees trained in every conceivable form, as did the preceding. Conifers and many kinds of hardy ornamental shrubs were included in this collection.

A lunch was given to the jury at mid-day on the opening of the show, the chair being taken by Colonel Labouehere, president of the Caen Horticultural Society, who welcomed the members of the French N. C. S. and thanked the exhibitors and members of the jury. Several other speeches were made.

At 3 p. m. the convention was opened. M. Viger presided. Papers were read on several subjects relating to the chrysanthemum and discussions ensued as to the best means to develop a taste for chrysanthemum culture. The following day a second meeting of the convention was held. In the afternoon the jury were taken round to see the sights of the town and in

the evening a grand banquet was given to the Society to all the jury, officials and members of the convention.

C. HARMAN PAYNE.

A WORTHY CAUSE.

Secretary Herr of the American Carnation Society is sending out the following letter.

Lancaster, Pa.

Dear Sir: Knowing you to be interested in Carnations, The American Carnation Society requests the pleasure of your cooperation in the advancement of our flower by joining this Society.

The money consideration is \$3.00 for the first year and \$2.00 per annum afterward a necessary adjunct for the running expenses of the Society, but in extending this invitation to you it is more for the influence of your name as a member and the good advice you may be able to give us than the few dollars you will pay as dues.

Send name, address and remittance to Albert M. Herr, Lancaster, Pa.

Respectfully yours,

The American Carnation Society.

The A. C. S. is doing good work, and every florist who raises a carnation or sells a carnation is a beneficiary to a greater amount than the small annual fee called for. We hope the letter will elicit an appreciative and generous response.

AMERICAN RAISED CYPRIPEDIUM SEEDLINGS.

Editor HORTICULTURE:

Dear Sir:—I note in your last issue in Lenox Horticultural Society notes, by the secretary, Mr. Foulsham, that Mr. E. J. Norman was awarded first-class certificate for Cypripedium Josephianum (my namesake), as being the first American raised seedling to flower, which is an error. Cypr. Arnoldianum has that honor, Cypr. Josephianum being fourth.

Yours truly,

JOSEPH A. MANDA.

CATALOGUES RECEIVED.

Hasslach & Roumanille, St. Remy de Provence, France. Seed specialties for 1907.

W. Atlee Burpee & Co., Philadelphia, Pa. Advance wholesale prices for 1907 of "Seeds that Grow."

J. G. Harrison & Sons, Berlin, Md. Catalogue of fruit and ornamental trees. Lists peach trees by the million.

Eastern Nurseries, M. M. Dawson, Mgr., Jamaica Plain, Mass. Everything for the Hardy Garden. Beautifully illustrated. A charming little pamphlet.

The Tri-City Florists' Association met at Davenport, Iowa, in the home of Otto Boehm on the afternoon of November 15. Roses, carnations and violets was the general theme on which each member gave his experience. John T. Temple and Harry Bliss spoke of the Chicago flower show. Theodore Ewoldt, president of the state association, spoke of the convention held in October. W. Knees, A. Becker, J. Staack, O. Boehm and T. Ewoldt were appointed a committee to arrange the program for next year.

F. DORNER & SONS CO. CARNATIONS

LAFAYETTE, - - - Ind.

POT MAKERS FOR 140 YEARS
A. H. HEWES & Co. Inc. CAMBRIDGE MASS.
 KIND EVERY OF WARE ST FLORISTS

THE GLASS QUESTION AS IT AFFECTS GREENHOUSE MEN.

Pursuant to the action taken by the Florists' Convention at Dayton, Ohio, in appointing a committee to consider what might be done with the glass tariff, the correspondence below is of interest to everyone in the craft:

Fishkill-on-Hudson, N. Y.,
 Nov. 29, 1906.

Hon. Sereno E. Payne,
 Auburn, N. Y.

Dear Sir:—I am constrained to address you upon a matter of considerable interest to a large craft of men who use window glass in their business to the amount of millions of square feet, and that is the florists of the United States.

At the annual convention of the Society of American Florists, held at Dayton, Ohio, one of the most important matters brought up was that of the duty now imposed upon window glass, which is an advance so much greater than existed prior to 1896, and which tariff raised the price of this commodity very materially per pound on every box of glass used.

With the knowledge of your standing in Congress and being a member of the Committee appointed by the Convention, I have for some time thought of laying this matter before you and to ask that now election is over and we know how the drift of affairs will be the next two years, if the matter of reduction of tariff rates would stand any chance of receiving consideration at the approaching session of Congress, or if at the present stage of public opinion, it would be labor lost to attempt to do anything directly without pronounced agitation.

The greenhouse men of the United States, the number of whom runs into the thousands, all feel that the present high cost of this necessary article is to them very largely enhanced by the existing excessive duty and if this duty could be brought down to the rate prior to the tariff of 1897, that it would be an economic gain, which would work no harm to producers, because many of us believe and think that the tariff, as it exists today, is overdone and the party that should correct the matter is the Republican in control of the majority.

Our General Ketcham is dead so we cannot go to the old gentleman for advice as to what we might gain if we went to Washington.

Enclosed is an article from a florist trade paper, which shows the interest by the florist craft.

We should be glad to hear from you upon this important subject.

Yours respectfully,
 BENJAMIN HAMMOND.

COMMITTEE ON WAYS AND MEANS,
 House of Representatives,
 Washington, D. C.

Auburn, N. Y., Nov. 21, 1906
 Mr. Benjamin Hammond,
 Fishkill-on-Hudson, N. Y.

Dear Sir: Yours of the 20th inst. received. Congress meets this year on the 3rd of December, and the term of this Congress expires on the 1st of March, giving three months, with the exception of the holidays, for what work we have to do. The time is barely sufficient to give consideration to the appropriation bills which will come up. All would agree it would be entirely impossible to pass a tariff bill.

While you desire but one item of the tariff changed, this could not be considered without taking up the whole subject of tariff revision and considering all the claims for changes to be made to the different schedules. This, of course, is a matter that requires much time and deliberation.

I read with interest your statement in

the florists' paper. While we imported \$54,000,000 of cylinder, crown and common window glass in 1896 and but \$18,000,000 in round numbers in 1905, it would appear that our workmen had \$36,000,000 worth more of glass to manufacture at the latter date than in 1896. This means, of course, prosperity to the workmen in the glass manufacturing business.

You would readily admit that your business had been much better since 1897, than it was in the three years preceding that year under the Wilson tariff act, and the year or two before that when the country was prostrated because of the uncertainty of what the Wilson people might do, for your business must be very dependent upon the general prosperity of the country. It would be well for you to take into consideration whether it is not better to have the country generally prosperous under the present act, which brings prosperity to your business, rather than to restore the glass business to its condition under the Wilson tariff, thereby bringing your business back to the same condition of affairs. I only throw out this suggestion for your consideration, because when the subject of tariff revision is taken up, I shall hope to hear from the florists on this subject.

Yours very truly,
 SERENO E. PAYNE.

GREENHOUSES BUILDING AND PROJECTED.

Additions.

Plainfield N. J.—C. L. Stanley, additions.

Northfield, Mass.—Joseph W. Field, enlarging.

East Thetford, Vt.—Mr. Wilkinson, one house.

Greenland, N. H.—Edward Clough, one house.

Hill City, Tenn.—W. F. Hager, one house, 25x60.

Franklin Falls, N. H.—Franklin Floral Co., range of houses.

New York, N. Y.—Central Park, eight houses and a palm house, to cost \$38,275.

LIST OF PATENTS.

November 20, 1906.

836,181. Spraying Glove. James Cray, Champaign, Ill.

836,214. Tree Cultivator. George B. Reeve, La Mirada, Cal.

836,230. Grass Receiptacle. La Fayette Wildermuth, Columbus, Ohio.

836,284. Grass Grubber. Charles W. Stark, Mountain Lake, Minn.

836,328. Device for Supporting Plants. William Maxfield, Barrington, R. I., assignor of one-half to William C. Dimond, Warren, R. I.

836,388. Orange Clipper. James G. Kyle, Riverside, Cal.

836,623. Turfing Implement. Joseph Bercha, Atkinson, Neb.

There is not a single point in the whole culture of trees and shrubs that is of equal importance to that of keeping the collar of the trunk above the surface; and there is not one which is more generally either neglected, or by some means or other counteracted, not only in small, but in large gardens.—Loudon.

NIKOTEEN APHIS PUNK
 THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
 STRONGEST AND MOST UNIFORM

PRICE 60¢ PER BOX OF 12 LONG SHEETS. \$6.50 PER CASE OF 12 BOXES.

NIKOTEEN
 LIQUID
 FOR SPRAYING OR VAPORIZING

PRICE \$1.50 PER PINT BOTTLE. \$13.00 PER CASE OF 10 PINT BOTTLES.

NICOTINE MFG. CO. ST. LOUIS MO.

PATENTS

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Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

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 PATENT LAWYERS
 Box 9, National Union Building
 Washington, D. C.

WANTS, FOR SALE, ETC.
 Advertisements in this column one cent a word. Initials count as words. Cash with order.

FOR SALE—Greenhouse Pipe

4 in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—Private place preferred as head gardener. Married; two children; good reference. A. N., care R. & J. Farquhar Co., Boston.

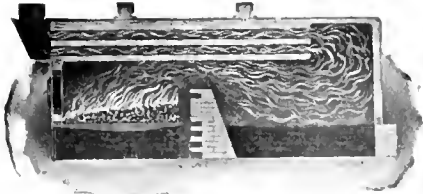
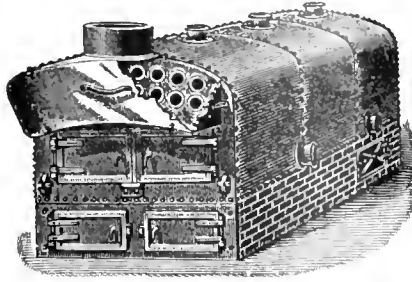
WANTED—Assistant florist for commercial place, middle West. Wages \$30 per month and board. Send copy of references in first letter. Address "C. C.," care HORTICULTURE, 11 Hamilton Place, Boston.

Have You Read the Advertisements this Week?

Kroeschell Bros. Co.

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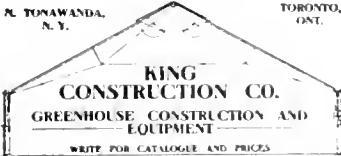
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35 Erie St., CHICAGO.



Boilers made of Steel Boiler Plate; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

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BOX 789, NEW YORK

GREENHOUSE BUILDING AND HEATING
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BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

Holds Glass Firmly
See the Point **PEERLESS**
FULL SIZE N^o 2
Glazing Points are the best. No rights or jobs. Box of 1,000 points 75 cts. postpaid.
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714 Chestnut St., Phila., Pa.

Standard Flower POTS

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

W. H. ERNEST,

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FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
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BOSTON OFFICE REMOVED TO 189-200 FRANKLIN ST., COR. PEARL.

It's Pushing the Hot Water Around All Right

for the wise growers who installed it this season. Don't you wish it was doing it for you these cold nights?

Holly-Castle Co. Circulator
170 Summer St., Boston

CYPRESS SASH BARS 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

STANDARD FLOWER POTS

Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2 1/2	\$4.88	120 7 in. pots in crate	\$4.20
1500 2 3/4	5.25	60 8 "	3.00
1000 3	6.00	HAND MADE	
800 3 1/2	5.80	48 9 in. pots in crate	\$3.60
500 4	5.00	43 10 "	4.80
320 5	4.50	24 11 "	3.60
144 6	4.51	24 12 "	3.80
	.16	12 14 "	4.80
		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. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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SCOLLAY HOT WATER and STEAM BOILERS

JOHN A. SCOLLAY
73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.
117 E. Blackhawk St., CHICAGO

Our Anniversary Number, recognized as the best Horticultural Publication of the year, will be issued on December 8. Special Circulation and Superb Colored Plate, but advertising rates the same as for ordinary issues. Booking Advertising Space now. Please Order Early.

SUN DRIED CYPRESS GREENHOUSE MATERIAL
IS THE BEST.
WRITE
FOLEY MFG. Co.
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FOR FREE CATALOGUE
" "
VENTILATING APPARATUS, FITTINGS, HOT-BED SASH.
WE MAKE SKETCHES AND ESTIMATES.

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.
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RHODES DOUBLE OUT PRUNING SHEAR
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Dept. 4. GRAND RAPIDS, MICH.

Cuts from both sides of limb and does not bruise the bark. We pay Express charges on all orders. Write for circular and prices.

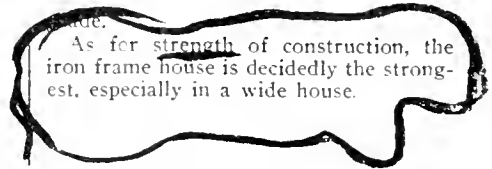
NOW IS THE TIME TO INSURE YOUR GLASS AGAINST DAMAGE BY HAIL. For particulars address
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What Does a Material Supply Concern Know

about the faults in its materials if they supply materials only and never erect their own houses. If you want the best there is in up-to-date materials, you'll buy them of greenhouse builders and not lumber people or planing mills.

HITCHINGS AND CO.
GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.



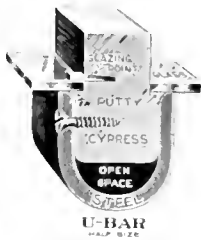
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CLIPPED FROM AMERICAN FLORIST

Just imagine the tremendous strength of the iron frame construction with its complete arches of iron running in jointless rafters from ridge to grade line and tied together at intervals by the necessary purlins — a frame nowise dependent on wooden members for its rigidity or strength. Think what that means when it comes to repairs — think of the long time before any repairs will come.

Send for Iron Frame Circular

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Greenhouse Designers and Manufacturers
1133 BROADWAY, cor. 26th Street, N. Y.
BOSTON Branch: 819 Tremont Building



THERE'S no better way to form an idea of what a light, splendid house the U-Bar construction is, than to see an interior. The wide spacing of glass, total absence of any heavy supporting members or rafters and the glistening beauty of the aluminum paint finish, are the most

things possible. The advantage such a house offers over the usual construction is no argument. It is not only the most productive and most enduring, but none are as enduring. Send for our new Catalog.



convincing advertisement has over and over admitted of only the most attractive. Send for U = Bar

Company, Designers and Builders U-Bar Greenhouses, Metropolitan Building, Fourth Avenue and 23rd Street, New York.

HORTICULTURE

Vol. IV.

DECEMBER 8, 1906

No. 23



BEGONIA GLAUCOPHYLLA SCANDENS

Devoted to the
**FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,**
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00

DEC 10 1906

1877**American
Beauty**

Prepared to fill all

**Holiday
Orders**promptly and
satisfactorily**1906****Finest
Lily of the
Valley**Every Day in the
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Just right for Xmas, 5 to 20 fruit. 25c per fruit.

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Here are two good ones for you—the former the beautiful variegated delicate pink ground spotted with deeper pink, the latter a Lawson shade of Pink, and both fancy varieties. They are vigorous growers, no grass and every shoot produces a flower. The supply of cuttings will be limited. You cannot well afford to be without some stock of these two excellent varieties. They should and undoubtedly will prove a most valuable asset to our collection of desirable commercial carnations, and growers who would be up-to-date must not be without them. I have watched carefully these two varieties for some time, and can fully vouch for their excellence. Enough said.

**THE FIRST BATCH OF ROOTED CUTTINGS
WILL BE READY DECEMBER 15TH, 1906**

PLACE YOUR ORDERS NOW and be assured of supply for next season; or for further particulars regarding these two excellent commercial carnations, address

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CUT BLOOMS CAN BE SEEN AT 43 WEST 28TH STREET

As a Matter of Course You Are Looking for the Best and Most Profitable Pink
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ROSE-PINK ENCHANTRESS

IT IS A SURE THING

Enough were disseminated in various sections of the country last year to prove that it is the best and most profitable variety in sight to-day. And so, "lest you forget," we say again: Don't hesitate, don't doubt, don't delay mailing your order. The ROSE-PINK ENCHANTRESS is an ideal variety, viewed from whatever standpoint. Prices for rooted cuttings, February and later delivery

\$7.00 per 100; \$60.00 per 1000

"Rose-Pink Enchantress is by far the best carnation we have ever grown. Have had it in bloom now for two months and it has commanded 25 per cent better price than any other fancy carnation. Its pleasing color makes it a quick seller and am sure it will be one of the most popular varieties for years to come."—Mrs. R. Mauff, Denver, Colo.

"It is identical with Enchantress except for the lovely pink color. The 700 plants we have, although doing well, cannot furnish one-fourth enough to supply the demand for this color continually ordered in advance."—C. F. Baker & Son, Utica, N. Y.

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"We are much pleased with the Rose-Pink Enchantress. We grew it under glass all summer and began to cut in August. It was a little light early, but far superior to Enchantress, which was a washy color. The color is fine now, just the shade the public wants. We shall grow 5000 of them next season."—W. J. Palmer & Son, Buffalo, N. Y.

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Holly Wreaths good selection of well made well berried stock . . . **\$15.00** Per 100

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Red Ribbon specially designed for our select and exclusive trade. The finest low priced ribbon on the market. Samples and prices on request.

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We invite the attention of intending buyers, or those interested in seeing the newest productions of the potters' art, to our importations of English, French, German, Japanese and Chinese **Plant Pots** or **Jardinières**, 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.

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TARRYTOWN FERN

(*Nephrolepis Piersoni Elegantissima*)

make one of the finest plants for a holiday gift that we know of. We sell large quantities of



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We can offer fine selected specimens in all sizes, from medium sized plants in 6-inch pans up to immense elegant specimens in 16-inch pans, suiting all purses and all classes of trade.

Order early and have the stock on hand where you can show it. You will find nothing more satisfactory or profitable. We can supply fine plants as follows:—

Fine plants, 6-in. pans, 75c. and \$1.00 each—according to size. Fine specimen plants, 8-in. pans, \$1.50 and \$2.00 each—according to size. Very fine specimen plants, 10-in. pans, \$3.00 each; large specimens, 12-in. pans, \$5.00 each; extra large specimens, 14-in. pans, \$7.50 each; still larger specimens, 16-in. pans, \$10.00 each. Also young stock for growing on, \$12.00 per 100.

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CARNATION BRITANNIA.

Ornamental Conifers



TSUGA DIVERSIFOLIA

PSEUDOTSUGA DOUGLASH
in front Tsuga Pattoniana Hookeriana

The hemlocks like to grow in damp surroundings; they suffer in winter from dry north and northwest wind. *Tsuga canadensis*, the common hemlock, grows all over northeast America. It is a graceful tree, young or old, and can be used for big plantings; they are also much used for hedges. There are a few forms in cultivation which are very ornamental and best used as isolated on the lawn. *Compacta*, as its name indicates, is of compact growth and when young is nearly round. *Parvifolia* or *microphylla* has very small needles, is much branched and of small size. *Macrophylla* has much larger needles and is compact in growth. *Graeclis pendula* generally without leader branches has long slender branches drooping outwards on the top. *Sargent pendula* is a good weeping tree, very distinct, flat at the top. *Alba spica* has the points of the young shoots white when growing. *Globosa* Manning is a dwarf, very compact growing, little tree.

Tsuga Caroliniana has the habit of growth of the common hemlock, with larger and darker needles; it is quite a distinct tree.

Tsuga Mertensiana or *Pattoniana*, the black hemlock from the West, is here a very compact, slow growing, dark green tree, but not very hardy. There is a form, which comes from further north—*Hookeriana*—which has the needles smaller, is more compact in growth, of a bluish color and is more hardy.

Tsuga diversifolia and *Sieboldii* are both from Japan; the first is of compact growth, the needles are short and flat, glossy and regularly set; the other grows more slender, has longer needles of a grayish green color. They are both good hardy trees for the lawn. *Tsuga Abbertiana* from the West and *Brunaniana* from Himalaya are not hardy trees.

Pseudo-Tsuga (or a newer name, *Abietia*) *Douglasii*—sometimes called also *Pinus taxifolia*—from Washington to New Mexico, has the flat needles of an abies and the persistent pendant cones of the spruce. It is one of the best conifers to be planted, of large spreading graceful pyramidal habit, and very hardy. There are

some glaucous, pendulous and fastigate forms from it in cultivation. It is one of the conifers which varies the most from seeds; in a patch of a couple of hundred seedlings from four to six feet high, we have at least half a dozen good varying forms among them. The Douglas fir which comes from Colorado has the needles narrower, giving the shoots a more feathery appearance. It is of very light green and quite a distinct tree, but not very hardy; we had a nice lot but lost them nearly all.

Am. D. H. Am.

(To be continued.)

Begonia glaucophylla scandens

(See Frontispiece.)

Begonia glaucophylla scandens, although an old variety, is a plant not so generally well known as its beauty warrants. It is fibrous-rooted, and flowers during the winter months, and its long trailing growths make it an ideal plant for growing in hanging baskets for the decoration of the conservatory.

Every shoot has a terminal cluster of rosy scarlet flowers which last a long time, and which shows to great advantage when suspended.

It roots quite freely from cuttings, and these, taken in spring and when well rooted and put three or four in a ten-inch pan or basket, make very attractive plants by fall, if pinched a few times during their growing season.

It readily responds to liberal treatment by giving a mass of flowers during January and February, when they are much appreciated.

Alfred J. Saunders.

Why are Flowers Double — and What For?

Doubtless this question has been asked so far back that the memory of man knoweth not.

We are told and asked to believe that all flowers are elaborated leaves. If so, the double flowers are more elaborated than single ones, but—

Are the stamens with the anthers filled with pollen only elaborated leaves?

Are the pistils, ovaries, pericarps and embryo germs only elaborated leaves?

Whether double or single

**"Your voiceless lips O flowers are living preachers
Supplying to my fancy numerous teachers."**

Double flowers are admired and are great favorites; whether they actually possess more beauty than single ones depends entirely upon the views of the observer. The structural change from single flowers to double ones is said to be a transformation of stamens into petals. This is more or less confirmed by the general absence of normal stamens in double flowers and the frequency of partially transformed petals to which are often attached portions of stamens containing perfect pollen.

It is held by some that intensive cultivation in rich and highly elaborated nutritious soils will promote the change from single to double, and further that many plants, with nature's assistance alone, never bear other than single flowers but when subjected to high cultivation, produce double flowers, but if this be accepted how shall we explain the one or more branches bearing double blossoms on the hawthorn or the double blossoms on the furze bush? It cannot be either high living on the one side or starvation on the other.

Undoubtedly double flowers are developed from some positive abnormal condition of the plant, or that part of the plant on which they occur. If due to high cultivation on one hand, or starvation on the other, double flowers of any genus or species could be had at will.

If it were in any manner possible to ascertain the time and methods, if any, when and how the double forms appeared of such narcissi as the double daffodil and the double phoenix, the double Gesneriana tulip, the double hyacinth among bulbous plants, and the double wall flower and double Ragged Robin, the double flowering cherries, apples, peaches and plums were first brought to notice it would no doubt aid investigation. Circumstantial evidence in my opinion is so strong that I have no hesitancy in believing that the original plants on which the first flowers appeared on the above mentioned species were not subjected to either cultivation

or artificial treatment any more than were large numbers of their immediate neighbors, and own kindred which bore single flowers only. It is reasonable to infer and doubtless is true that when discovered they were subjected to methodical propagation and cultivation which has enabled them to occupy the positions they now do. The methods of propagation of the cherries, apples, peaches and other tree forms, is by budding and grafting—which in the cherries has been carried on for thousands of years—the propagation of the other mentioned plants has been offsets and divisions.

Some species are more easily made to bear double flowers by cross fertilization than others, a fact well illustrated in the tuberous begonias from Bolivia and Peru—not only have the species *Boliviensis Veitchii*, *Davisi* and *Pearcei* bred and inbred with each other but they have given the most marvellously double flowers in any genera, and this so recently—1857-65. Whether Seden anticipated double flowers in his first crosses has never been stated; possibly not; however, they stand out boldly as representatives of what can be accomplished by intelligent pollenization and as a compounding of species it has been perfectly done. There is no doubt the species are not far removed from each other, or the results would not have been so positive in such a short time. This begonia family is an expansive, erratic, amenable, controllable lot; however, some species as *Evansiana* are intact as yet. What a parent this would make crossed with some of the above hybrids! This and *nitida* are two of the oldest species. The begonias are comparatively recent to cultivation.

The zonal section of pelargoniums is another family wherein much doubling was done in a short time. I remember in 1848 or '49 on the back wall of a conservatory a geranium 12 or 14 feet high with leaves 12 inches across and trusses of flowers two feet apart with narrow petaled, ragged, semi-double scarlet flowers. This came from Belgium and I recognized it just before the advent of *Gloire de Nancy* as *Marshal de Champtour*, which was one of the parents of *Gloire de Nancy*. Jean Sisley and myself were about a tie in getting a double white—mine was through *Hendersoni*—since which time the numbers of double pelargoniums have been legion. Whatever the family may be that contains double flowers, there always will be a percentage of plants with flowers having perfect stamens and stigmas according to their species—carnations, 15 per cent., pelargoniums, 15 to 20; begonias, 7 to 20; dahlias, 30 to 70; fuchsias, 60; roses, 40 to 60, etc., so that if the progeny were left to themselves the double flow-

ers with their lack of natural productiveness would be quickly crowded out.

The genus *Mathiola* and its species, Ten Week, Brompton and Intermediate Stocks, are among the most interesting of genera from the manner in which double flowers are produced. Some sections give as high as 80 per cent. and others not more than 40. I remember a cottager—the shoemaker of the village—whose Bromptons and double wall flowers were unsurpassed. His plan was to take out of the border all of the plants showing single flowers, plant them on a group by themselves, cut off all the side sprays; when in blossom every flower having more than four petals or with the least confused formation was tagged with a piece of yellow hemp. These were separately saved and from them came the greatest number of double flowers. The seed from the unmarked flowers produced a good percentage of double flowers also. These seed-bearing plants were a hundred or more feet away from the double ones when in flower—in fact the seed was set before many of the double flowers were open. (I wish I could look on the like of Sarson's Bromptons once again, three or more feet high and two feet through). The manner of double stocks is as inexplicable today as it was a century since. The brown-flowered night-scented stock often used to bear flowers with six or more petals.

In a six hours' search covering miles in extent, to find either a double flower of, or a different color of the common dog daisy, *Chrysanthemum leucanthemum*, of which there were growing millions and millions, some in extremely rich meadow land with flower stems 30 inches high and others on the very poorest land where they were not 8 inches high, the only variations I found were very large flowers in the rich ground and very small flowers in the poor ground and, rarely, a stem with twin flowers back to back; also a few with broader and longer petals than the type. Certainly in this case neither riches nor poverty had caused any structural changes or coloration.

Double flowers are not necessary from Nature's economic standpoint; are not beneficial for the extension of the species; do not materially change the stature of the plant; do not materially change the shape or structure of the leaves; as a rule diminish the odor, never intensifying it; are the cause of disarrangement of the generative organs; defeat the great nature-object of reproduction; do not reinforce root action or assist propagation; occur in nearly, if not all genera; may have more intensified coloring owing to their varied surfaces; materially reduce the number of pollen grains; in many species do not impair the ovaries; are more beautiful than single ones from the viewer's observation only; are necessary for some purpose of Nature which has not been discovered.

Fall Work

This work on garden grounds should not be left in hand ere the end of November as there is no mowing when the winter storms may serve to prevent much work thereafter. Of late years winter has held off to an exceptionally late period, which has a tendency of impressing the dilatory and optimistic minds to regard this order of things as indefinitely established; needless to say that a ruthless awakening awaits them sooner or later. The work in question then consists of the general clearing up of the grounds, such as the raking of leaves and making use of them for the packing of frames, protection of the tenderest herbaceous plants, or making compost heaps of them for potting and other purposes for which they are invaluable. They also serve to make splendid material for hot-beds in the spring incorporated with fresh stable manure, thus prolonging the heat of the bed by moderating the violence that is otherwise characteristic of fresh stable manure alone.

Where there are large colonies of woodland surrounding shrubberies, etc., leaves are not a small menace to the latter, inasmuch as they constitute a fire-inviting material; especially is this true on public grounds and such other grounds where the irrepressible "young Greek" runs at will oblivious of all except the excitement that a good blaze affords.

It goes without the saying that the trimming and clearing of herbaceous plant borders and beds is another important item of fall work, all of which properly done contributes to neatness, not to mention the lift it gives in the rush season of the year—spring.

Included with such work must be mentioned digging and trenching; as much as possible of this work should be attended to in the late fall, ridge tillage of a deep nature being much preferable should time and means allow, as thereby frosts and air have a greater play over the surface, resulting in spring in a flocculent and mellow condition that could not be otherwise obtained; apart from this no small consideration is the likely destruction of large quantities of insect life injurious to garden crops, as they are thus suddenly arrested in their progress from surface strata to lower strata out of harm's reach from the severe colds and effectually exposed by the operation.

To attempt to enumerate in detail the multitudinous other items of fall work that are part of a well-regulated establishment would be to invite the task of a good sized volume. One more item I cannot resist mentioning, however, because it is by far too sparingly adopted in this large and progressive country of ours, and that is, the early fall planting of the various hardy bulbs in border and grass plot; for the latter situation the narcissi in their respective divisions stand pre-eminent.

John Thorpe

H. D. D. D.

Chrysanthemum Notes

EARLY CHRYSANTHEMUMS

These varieties have been known for at least fifty years but while the older ones were wholly and solely of the pompon type the later race are Japanese and it is only since the popularization of these that early chrysanthemums have been grown to any great extent.

The Japanese early chrysanthemum is practically of French origin although the class has been added to by English growers and now forms a very important section of the chrysanthemum in this country. In France M. Aug. Nonin of Paris is the up-to-date man in this class while in England Mr. W. Wells has been busily engaged in their culture for many years.

A few weeks ago when at the Merstham nurseries on other business I had the opportunity of seeing Mr. Wells' earlies in full bloom and as they do not yet appear to be largely cultivated in America a few notes concerning them may be acceptable to the readers of HORTICULTURE.

Mr. Wells has several large plots of ground devoted to the growing and trial of earlies. They are mostly rather dwarf growing and free flowering. Some may be disbudded more or less severely according to the taste of the grower, but for the open border in the amateurs' garden such a proceeding is scarcely necessary. Fifty thousand plants were making a grand show late in October, some of them having commenced to flower in August. They are not left in the ground all the year round but are lifted in the late autumn. Cuttings are struck in February and March and planted out from the 1st to the 18th of May and thenceforth require but little attention.

Mr. Wells digs the ground in winter, liberally supplying stable manure at the time, and from the time the young plants are put out no other attention—not even watering—is required. The plants are grown for two purposes, viz., the supplying of cuttings to amateurs and the sale of cut flowers for local trade. The following is a list of some of those we most admired; Perle Rose, good form, pretty shade of rosy pink; Queen of the Earlies, white; Roi des Precoces, neat little flower, reddish crimson; Rosie, dwarf and free golden terra cotta; Agnes, bronze; Clara, yellow; Diana, bronze and gold; Rabelais, purple amaranth; Dame Blanche, white; Polly, dwarf, orange yellow, one of the best; Nina Blick, chestnut; Jules Mary, reddish crimson, rather dwarf, free flowering, a most effective variety; Le Pactole, reddish chestnut, rather a large flower; Armide, pale blush, rather tall grower; Radium, very rich fiery crimson, does well in pots, golden bronze reverse; Tapis de Neige, pure white, free; Glacier, white, good sized blooms; Le Cygne, similar flowers to the preceding but taller in growth, stiff stems; Merstham, pink, very pretty neat little Jap, close and compact, rosy pink; Wells' Scarlet, bright scarlet terra cotta, a dwarf grower, begins to flower in August; Goacher's Pride, pure white but occasionally flushed with pink, very free dwarf; Perle Chatillonnaise, a neat little flower, gold and blush on a cream ground; Fee Enchanteresse, creamy white, shaded rose at the tip, very free. All

the family of the Masses, which now number nine, are also useful sorts.

EARLY SINGLE CHRYSANTHEMUMS.

Single-flowered chrysanthemums have always been regarded with favor by those interested in the decorative value of the popular autumn flower, but up till now we had no race of early flowering singles. A start has, however, been made and there is every probability that early singles will find many admirers, for they are light and graceful in appearance and begin to flower by the first of August, lasting onward into late autumn.

Mr. Wells of Merstham a year or two ago succeeded in getting two or three of this type and from these he has got quite a number of new seedlings; we saw altogether about 600 plants in the open which were sown in February of the present year, then pricked out in boxes and planted in the open ground in May. He has 156 varieties altogether for distribution or further trial, the best of them—about three dozen—being intended for delivery next spring. Ruby, reddish crimson flat florets, with yellow centre, is large dwarf and free; Florence Gilham, white, yellow centre, flat florets, has been in flower since midsummer; J. H. Runchman, dull reddish terra cotta, yellow centre; Majestic, rich red, centre yellow; Venerable, ruby red, yellow centre; Philadelphia, pale rosy pink, a very perfect form, centre yellow; Jupiter, white, slightly tinted rose purple, yellow centre; Alexander, soft shade of golden buff, centre yellow; Surrey, old rosy salmon; Marvel, rather narrow florets, deep rosy pink, are some of the most promising of this new and useful race.

SOME GRAND YELLOW CHRYSANTHEMUMS.

Among the noblest exhibition blooms seen at European shows the grandest in size are probably to be found among the yellow varieties. White and purple shades, perhaps, run the yellow the closest, but certainly this season the most numerous blooms have been found among the yellows.

Looking over my note book after a busy season and after having travelled a good many miles, I find that many of the names of the best show flowers seen in the leading groups and collections justify my opening remark. Duchess of Sutherland, Mrs. W. Knox, Mme. G. Rivol, Bessie Godfrey, Sensation, General Hutton, Mrs. Harry Emmerton, Mrs. Greenfield, George Lawrence, are but a few of the well known large varieties in different shades of the primitive color of the well-termed golden flower.

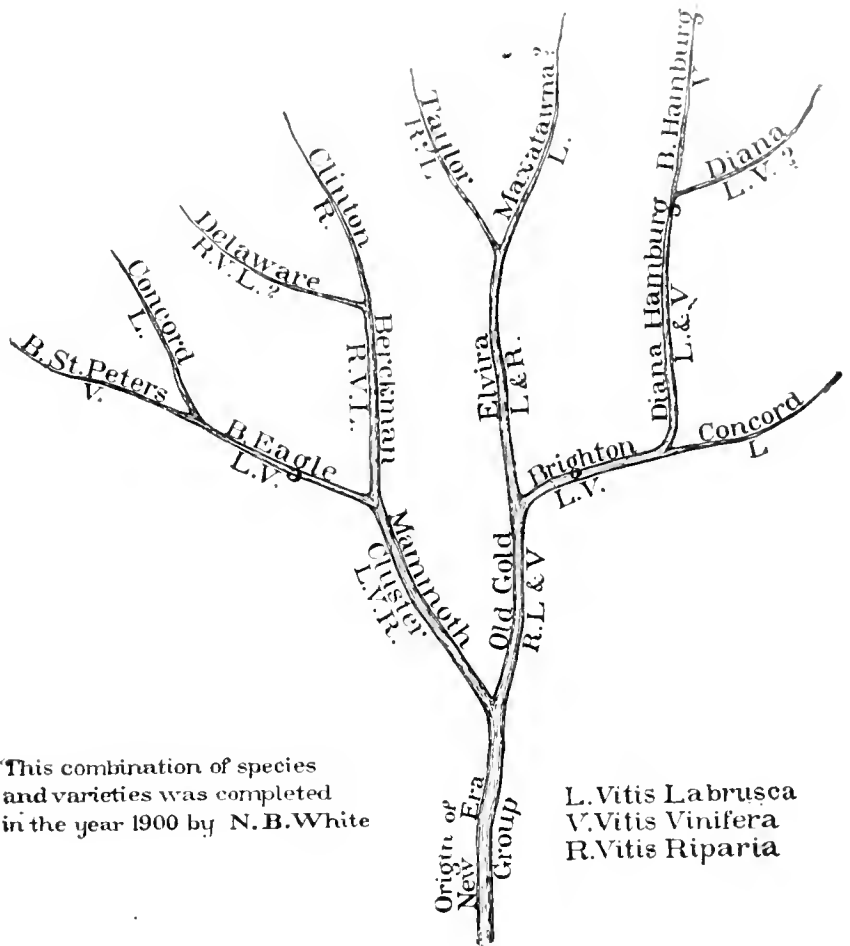
The very biggest yellow Japanese chrysanthemum ever grown is, I think, F. S. Vallis, for there were seven blooms of this variety shown in Paris, measuring 18 inches across from tip to tip. Le Bouvier is another monster, with long drooping florets. Lieut.-Colonel Ducroiset and Calvat's Sun are two more members of the big brigade, both solid, substantial flowers of the purest tone. Ministre Morgeot is also a giant. Souvenir de Bailleul is another spreading flower with a great length of narrow floret, close and compact but very much paler in color than any of the preceding. Calvat's Victoria and Albert has also been shown in enormous examples. Naples, Roi d'Italie, Col. Labouchere, Mme. Louis Bigot, and Embleme Poitevine are fine varieties of the closer and more compact incurved chrysanthemum.

Chasman Payne

Atavism or Reversion

Bateson says, "It is a curious and unexplained fact—constituting one of the most fertile fields of inquiry—that when dissimilar gametes meet they should so often produce an ancient form. That is what we now recognize as the rationale of Darwin's Reversions on Crossing." When Darwin crossed his pigeons he brought back an old form; and so in crossing many plants you can get back a reversionary form by uniting two dissimilar gametes.

Hugo de Vries says, "Crossing is a means of analyzing compound characters." It is also a means of combining the elements of such characters, and of building up the original type out of its components. In some cases the compound nature of a character may be evident, in others it is not, and in most cases it is as yet doubtful. So it is clear that a combination gained by crossing may assume the aspect of something quite new, and this will be nearly always the case where it is not possible to discern the exact relation of the "new" character to those of the parents used for the cross. If now this "new" character happens to have been present in some of the ancestors of the crossed types it will resemble a reversion to this lost feature, and provided no other explanation offers itself, it will easily be taken for an example of atavism. Looking at this inference from another point of view, we are led to suppose that perhaps many cases registered now as atavism caused by crossing, may probably originate in this way. In other words we may expect in all cases, where a compound character has been lost in the course of evolution, but where its components still exist in separate species or varieties, that it will be possible to rebuild the old characters by combining the partial ones by means of crossing. Such a combination would evidently deserve the title of *artificial atavism*. The writer has produced or caused by hybridizing a clean cut reversion. It will be seen that the accompanying diagram is composed of three different species, viz., *Vitis Labrusca*, *V. riparia* and *V. vinifera*. It will also be seen that there is much less of *V. riparia* in the combination than of *Labrusca* and about the same as that of *vinifera*, but notwithstanding that fact, the crossing of "Mammoth Cluster" with "Old Gold" has produced or reproduced, to all appearance a complete riparia grape. Mammoth Cluster is a staminate vine and Old Gold is a



pistilate and self sterile, a very sweet white grape and blossoms some two weeks later than the riparia, so there was no possible chance for it to have been pollinated from a riparia vine: it will be seen by referring to the diagram that the riparia is found among the ancestors of both Mammoth Cluster and Old Gold. It is probable that two gametes possessing the blood or potentialities of the riparia united and produced the reversion. But if heredity is as Luther Burbank and Prof. Emil P. Sandstein regard it, such an occurrence could hardly take place. According to Burbank, "Heredity may be said to be the sum of all the effects of all the environments of all past generations on the responsive ever moving life forces, or in other words, a record kept by the vital principle of the struggle onward and upward from simpler forms, not vague in any respect, but indelibly fixed by repetition."

Prof. Sandstein says, "Thus the individual animal or plant contains potentially the sum total of all the ancestral hereditary characteristics of the variety or species, regardless of the number of ancestors."

I can hardly conceive of such statements being true. If I take a cross section from the trunk of a tree, the rings of yearly growth will be a good record of the seasons in which the growth was made; the broad circles will indicate that the season in which the growth was

made was wet, and the narrow ones, that their growth was made in a dry season. That is consistent and easy to understand. But now suppose that I take a scion from that tree and graft it upon a young stock. Will that scion when it is grown up possess or contain the above mentioned record? If so in what will the evidence appear? Again, the eyeless fish of the Mammoth Cave when brought into light have their sight restored. Now since the cause has been removed, will traces of the effect continue through all future generations of those fish? By the law of the survival of the fittest, those plants and animals that cease to harmonize with existing conditions drop out and carry with them the characteristics or elements of weakness, and those that survive are freed from them. The law governing heredity is far from being understood, though great strides are being made by leading investigators; but the disciples of Darwin who have thought that all had been done that could be done, are now giving the new discoveries a cold shoulder. Still they hasten to say that if the new theories do prove true they will only go to prove Darwin's conclusions. The evolution of plants and animals is like the one-bladed jack-knife, that in course of time had a new blade, and still later had a new handle, and reversion is the finding and uniting of the old blade and handle.

R. B. White

Tropical Beds

It is claimed that tropical plants harmonize especially well with architectural stone work, but is this a well-founded claim? I mean would you show one of these so-styled tropical beds to a native South American gentleman and have the nerve to say, "Behold a piece of South America?" Geometrical symmetry of distance and height has nothing in common with fidelity to nature, because tropical plants have a natural irregular dependence on each other just as much as do our northern plants, and disregard of these natural laws means just as much in tropical planting as in plantations of northern material.

As the writer has observed in his travels in South America, plants grow there even more in batches, in larger spots or in distinct locations more frequently than is the case with our northern plants in a state of nature. He recalls, for instance, a growth of begonias, ten feet square, a solid mass with perhaps one or two small palm seedlings interspersed, and some larger ones as a background; this was an impressive piece of natural tropical plant effect. The "wandering Jew" in carpets along the banks of streams with clumps of amarantus glittering like metallic gems, is another natural tropical effect, for these things grow and flourish in nature in that way. He remembers clumps of tree ferns, ten to fifteen in a twenty-foot square, with nothing "banked up" about them except a few umbrella plants between

their stumps and pretty green moss over the surface of the ground; a picture never to be forgotten by a gardener.

One more word: is not the canna really better adapted as a retiring plant rather than as a show object for prominent places about houses, etc., and in drive-way pieces? In the forests the cannas grow along the slopes of rivers and streams and rather moist lands, under tall palms and other trees, covering big fields of black soil, and generally delight in the same situations as our native lilies. Settlers that have "the lay of the land," will advise the new-comer to clear land with undergrowth of canna, as that is usually flat, moist land, easy to handle, etc. Now we agree that lilies make the best effect planted along a pond or in some connection with water, or in flat depressions where we can look down upon them, and in half shaded places. Fidelity to nature would give the canna a similar treatment.

I have seen the trailing begonia with its picturesque leaves and bright red flower clusters overgrowing, as our elematis does, stumps of trees to a height of ten feet; a prettier garland cannot be imagined for tropical effect, and what a lesson for the "designing florist."

The above thoughts came to the writer while viewing a flower bed not long ago which really had a tropical effect, and is planted under the shade of large trees: the fuchsias, begonias and ferns that were used grow in the tropics naturally together, flowering and flourishing together at the same time, under the same climatic conditions. So many of our horticultural plants are natives of the tropics that it is not difficult to produce tropical effects, providing one is informed in regard to natural tropical scenery.

To conclude, now that gardeners and florists are promised some better information about landscape designing, should not such questions as above touched upon be discussed? As the time honored saying is, "Every sparrow whistles it from the eaves" that carpet-bedding styles heretofore popular, are down and out, but what shall we do with our bedding material and tropical plants, large and small?

Gerhard Bleicken.

The Single Purpose

in the reading columns of this journal is to give intelligent readers the kind of matter which will be of interest and benefit to them. This has been our policy from the start and explains why a new paper has so quickly won a reputation for good advertising results. Every concern has its own way of doing business.

Our Way

is to aim constantly to catch the eye and the consideration of the best men in the trade—those who are buyers of first-class material and who can pay for what they buy. If you have goods to offer to that class of buyers then advertise the fact in HORTICULTURE and

You'll Get There

The Fence

Away back about two or fourteen years ago we heard a great deal about abolishing fences, especially those on suburban streets. I am indeed sorry that the agitation has gone to sleep, and very little has been done since then. At that time, such men as President Charles W. Eliot of Harvard, Lyman Abbott, Minot J. Savage, Phillips Brooks, Edwin Arnold, took part in the great controversy.

Why not open the discussion again? Let us see if we can't get rid of some of the abominable fences that are on our best suburban streets. At this season, when vines and climbers, trees and shrubs have lost their leaves there is nothing left to hide the ugliness of these so-called fences.

In a city like Cambridge, Massachusetts, which is largely occupied by cultured people, one would expect such fences would be an eyesore to most of the inhabitants. Yet the thing does not seem to trouble them, and the structures stand there from year to year. Even on some of our best streets one can find a dozen or more different kinds of fences of all shapes and sizes. There are streets here that I pass through almost daily which, if given to a landscape gardener to clear out all fences and obstructions, then allowing him to plant the whole of the streets with system, the properties there would advance thousands of dollars in value. Although I mention Cambridge, many other suburban towns are in just as bad condition.

There are many useless excuses given for retaining these fences, such as protection from dogs and boys, and they are good for training vines on during the summer. I have not yet seen the fence that will keep out a boy if he wants to get in. And for training vines a temporary structure could be built which could be removed in winter, that is if the vines were needed after the fence was removed.

We have one street in Cambridge where there are no fences. On this street the grass is better and the trees and shrubbery look healthier than they do on the streets where fences are used. If we must have a boun-

dar line, let us use a low hedge — like the one at Thunberg's?

When I see a fence between two pieces of property I always imagine the people have a disagreement and that the one does not want the other to step on to his property.

People get into the habit of doing things, and they have been building fences for such a long time that it is hard to break them off the habit. We are more civilized now and do not need so many useless fences. The only purpose the old fences serve is harboring insects, that are injurious to vegetation. I know of no more tempting place for the gypsy moth to lay its eggs in than in the crevices of an old fence.

There are certain places where we can't do without fences, but these notes are principally written to call attention to the inherent ugliness of the useless and unsuitable fences we see in our beautiful suburbs. The only people who have mastered the art of building fences are the Japanese. Travellers who have been in that country have told me that they show wonderful artistic taste, ability and clever craftsmanship in building their fences. Their smallest gardens are fenced in by charming paling, the general character of which is simplicity itself.

If there is any one who does not believe what I have said, let him take an hour's walk anywhere in the suburbs and see if my statements are not correct. I hope HORTICULTURE will take up this matter and let us hear from New York, Philadelphia and, in fact, from all over the country as to what they are doing to abolish the objectionable fence. Every one who is interested in horticulture should try to do something to make this country more beautiful. Our civic and suburban improvement societies should hammer away at this subject until something is accomplished.



The Sportsman Spirit in the Exhibition

Editor HORTICULTURE:

Your editorial in issue of Nov. 17th on the unsportsmanlike action of some florists who have not sufficient of that essence of stamina, "sporting blood," to stay in a contest they have entered, but "quit cold," is touching upon a very important subject, for it certainly has got to be quite a proposition for the conductors of shows to know just where they stand, there being no way to estimate on number of competitors in the various classes, for no longer is the prize money the main object, but the advertising value seems to have over-

shadowed what little sport was once enjoyable to so many; the display at the show suffers in each instance where there is a forfeit, and of late there have been too many such. Something must be done; this quitting has got to be stopped. The proper and good spirit is the one that is tinged with just enough sporting blood to stick in a fight when once entered, until the end, and then defeat will not appear near as bad as though the white feather had been shown.

I have been thinking of remedies and two come to my mind as noteworthy: first, that a fine of \$5.00 or

more be assessed for each and every forfeit, and this rule to be strictly enforced. The other would be to publish the names of exhibitors withdrawing and put their names among the "also rans." for instance: A won 1st, B won 2nd, C won 3rd, E unplaced, F unplaced, G withdrew, H withdrew. Thus the acknowledgement of fear of defeat would be there, and perhaps it would have a tendency to bolster up some of the weak-kneed people that show at our exhibitions for their own gains only. The desire to secure premiums (notably firsts) for advertising purposes as the great reason is to be deprecated, for it is not good business policy to show our goods where defeat is certain, if the successful competitor proposes to use same for display ads., as is the custom in recent years, therefore some stimulant is needed to infuse a little of the sporting spirit in the exhibitor.

George Adams

Lapagerias

In drawing attention to these greenhouse climbing plants, one has the feeling of making play upon the obvious, so well known are they to horticulturists; nevertheless one notes a decline in favor, due not to any lack of merit, or rivalry in the way of novelties, for nothing superior as cool climbing plants have appeared, but rather to a general carelessness in treatment and the inevitably slow method of propagation, which makes them hardly profitable to the trade except in large quantities. How useful and beautiful they are! One of the writer's earliest memories is of two large houses covered from end to end with alternate plants of white and red varieties, bearing innumerable pendulous blooms. These were cut freely, but the plants were grown in huge pots and afterwards cut down for layering purposes to supply a large demand for young stock. It is rarely that one sees now any quantity of fresh young plants.

Their native habitat being on the slopes of the Chilean mountains, they delight in cool and shady situations with abundance of fresh air day and night whenever possible; train them on trellis wires, at least 18 inches from the glass; a close, fiery atmosphere is against success and breeds scale and thrips freely; syringe well during growth, but in winter this must cease or the leaves will turn bad at the tips or spot on the surface. They do better planted out in a prepared bed rather than in pots; the beds should be well drained, as when growing they need much water and a stagnant soil must be avoided; rough sods of peat may be put on the top of drainage and the rest a mixture of peat three parts and one part of leaf-mould, with a liberal addition of

silver sand. The foliage and stems must be let down at least once in two years and thoroughly cleansed and subjected to a little pruning of old growth.

In growing pot plants, in preference to wrapping around sticks, the growths should each have a string of cotton to run up, as is often done with smilax; afterward, when growth is completed they may be put around the sticks: growths from the base should be circled with cotton wadding, as slugs are very partial to these. The Alba variety is generally favored, but when mixed a better effect is secured. They are useful for floral work and though solid looking this element in due proportion with proper foil is very desirable.

Rubra, the red variety, has been much improved upon. We have now "Nash Court" variety, a deep crimson and larger flower; Profusa, like Rubra in color, but a longer flower borne in larger clusters; Maculata is lighter in color, with creamy suffused spots in the throat and a very distinct variety. With regard to propagation, they seed freely but take five or six years to make nice plants from seed. They may be divided with care, but layering is the best method and the one more generally adopted; where possible a special house for layering should be set apart, adapted in ventilation and heating to their needs. Beds may be prepared on the following lines: Start on the ground floor with a foot of drainage, also a foot of rough peat and bracken roots on the top of this; then packing in the compost every yard a 4-inch drain pipe so that water may be supplied to the roots without soddening the surface. One half of growth may be trained on the roof with profit in cut blooms and reserved for the following year's layering. Peg the growths down with broken pegs to the depth of about half the leaf. The young layers will be ready in about twelve months' time, when these may be lifted and potted, placing them in a cool case and syringing freely till well established, when they may be staked and moved to more airy quarters.

Edgar Elvire

Rose House Wisdom

I hope all my brother florists have had a good Thanksgiving—good crops, good trade, good prices, good health and digestion waiting on appetite when there were so many good things going on that day. The next holiday rush will be Christmas. Every grower would like to be in crop at every holiday, more especially at Christmas, when there is so much good feeling and joy that florists then have little trouble getting sales for their goods. There will be many worries until then, some crops being run to a high temperature, others the opposite to bring them in just right that week. There is a great deal of luck in getting a house of roses to

come in for that grand week, plans are laid months ahead, yet even then they very often fail.

"The best laid schemes o' mice and men gang aft a-gley."

The poet even took a hand at the rose business. Other business men have their ups and downs, but can come better to their calculations than the florists, for the weather is an all important factor in the greenhouse.

When I used to grow own root stock in benches, in three inches of soil, they could be forced more in winter, or in other words, could be handled better than plants grown in solid beds. I have never seen them, but have heard and read much about pipes being run under solid beds and thus getting as good control in the winter months as is the case with benches.

There is no set rule as far as I know to get roses in for holiday week: bulbs can be handled so as to be brought in flower at a certain time, but as I said before, the condition of the weather has almost everything to do with other crops being brought in at that time. Judgment and skill can be brought into play to help out greatly. There are various ways to hasten or retard the growth, but even under the most expert hands these often prove injurious in their after effects on the plants. Some times we gain a cent and lose a dollar, and to the inexperienced man it is a dangerous experiment. I find the best way is to keep the plants growing at the usual temperature and then after the holiday is over they are in better condition to work than if the life had been forced out of them, and any loss of crop sustained will be made up later, as the health of the plants has not been impaired.

I remember a year ago the crops in two of the houses here were about one week late. There was another party who would have been in just right, but we had a spell of warm weather just then which brought the crops of that party forward before the time and brought the crops here in exactly right; it was luck, pure luck.

People are willing to pay good prices for flowers on that day and they expect and should get fresh flowers—value for their money consistent with the scarcity of the product. The wholesaler gets an idea from his grower, perhaps a week ahead, as to the condition of the crops and a rough estimate as to the quantity expected. The retailer gives his order and expects fresh flowers. Should the grower "salt" the flowers, as has been done in former years, the retailer loses perhaps a good customer, because the goods were not up to the standard ordered and expected; the wholesaler perhaps got the goods thrown back on his hands; then there is a growl from the grower because he didn't get the fancy prices he expected.

We all have birthdays; that is one thing we cannot avoid. Some of us as we grow older feel as chirrup as those younger. Horticulture has again rounded out another birthday; the youngster seems to be keeping pace, considering his years, with his older brethren. There is always room in this world for any legitimate business. Hats off, gentlemen, to the thriving youngster.

Robert M. Brown

The Diet of the Carnation

This is the olden age, an age in which things are being made into the reason of things. The carnation is passing when one can sit passively by and let things take their natural course or unnatural course, as it may be. It is being proved even to the most skeptical florist that to make equal success with his competitors he must use all the best and latest cultural methods known.

The man who is raising live stock will first consider a place for the stock to be kept in and then the feed that they will require to sustain life and growth. The florist must and does consider the housing of his carnations first. He should next consider the feed he is going to give these carnations to bring them to best maturity. How many florists are there who very seriously consider the feeding of their plants? Is it any wonder that they are always saying that Smith or Jones must have a soil very much superior to theirs?

To come down to the bottom of things, is it the superiority of Jones' soil itself or is it the plant food that Jones adds to his soil that counts? I am of the opinion that the food is the important factor in many cases and will tell you why.

Plants must feed just as surely as man himself. Man chooses his food, steak, potatoes, pie, and insists on having a variety. The carnation insists on a variety, too, nitrogen, phosphoric acid, potash, and don't grow well if it does not get it. The man wants the thing that he gets the least of—the pie for instance. The carnation seems to run along the same perverse lines, and what it craves and seldom gets its proper share of is potash.

Now how does it happen that the carnation and many other plants go lacking for this important food—potash? It is not because potash is more expensive than the other foods, as bone meal, because the fact is that potash costs no more than phosphoric acid and only about one-third as much as nitrogen. It is because the carnation can't call out through a megaphone Potash! Potash! but must sit down and sulk and refuse to grow until it does get it. The florist knows that the carnation don't grow properly, but he is frequently in the dark as to the why.

The chemist now comes to the florist's aid in this extremity. When he analyzes the carnation he finds that a single plant removes from the soil in one growing season 99.12 grams of air dry material containing 1.918 grams of nitrogen, 0.134 grams of phosphoric acid and 3.510 grams of potash. It can easily be seen from a comparison of these removals that the carnation must have as a diet nearly twice as much potash as nitrogen and about five times as much potash as phosphoric acid.

Now as bone meal, the common fertilizer used by florists contains no potash, and animal manures contain it in far too small proportions, it is as plain as the nose on your face that the carnation grower should satisfy the cravings of his carnations by giving them a liberal ration of potash. This can be provided through any of the potash salts, such as muriate of potash or sulphate of potash or from the best grades of bone and potash fertilizer.

L. S. HASSELMAN.

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Already well along into December, the season's business should begin to count for something. The nine or ten weeks intervening between now and the beginning of Lent will largely settle whether the year scores a success or a failure in the career of many a florist. Close application, untiring industry and wise management now will make for future easy comfort and a care-free holiday. Get busy.

This is HORTICULTURE's Birthday Anniversary number. Two years have elapsed since our birthday "the Boston paper" stepped into the arena and respectfully asked for the friendship and support of the American horticultural profession. The cordiality with which the newcomer was welcomed, the steadfastness with which the good-will then extended has been continued and the influential position attained in so brief a time is something unparalleled in the history of class journalism, existing conditions being considered. HORTICULTURE's success is now secure and it is but natural that our Thanksgiving Day for 1906 should be an occasion of more than ordinary joy and that we approach with confident enthusiasm the pleasant responsibilities of our third year. We're so glad you like us.

Again we call the attention of our readers, with due pride, to the good showing made by the wholesale commission cut flower dealers in the advertising pages of this issue of HORTICULTURE. The enterprise displayed should especially commend these firms to the growers who will no doubt appreciate these well-directed efforts so liberally made in the interests of the business in which they are so vitally concerned. The retail trade is to be congratulated on thus having free access to sources of supply so abundant and reliable. No finer material has ever been seen than is herein offered to the discriminating buyer—the product of the most painstaking growers distributed through channels reliable and satisfactory in all respects. We bespeak for these and for all other advertisers whose liberality and progressive business policy have made this special edition of HORTICULTURE possible, the interested attention of our readers, and can assure them that a perusal of our advertising columns will repay them well.

We have taken occasion to refer before to the new single-flowered chrysanthemums, their simple beauty and their decorative value. Our notes from Mr. C. Harman Payne in this issue indicate an increasing interest abroad as in our own country and give a list of some of the most desirable varieties. We do not hesitate to advise florists generally to try a few

Give the
single-flowered
chrysanthemums a
place

of these easily-grown, single-flowered chrysanthemums and give their customers a chance to see what they are next season. In baskets and other decorative arrangements of chrysanthemums used in light sprays among the larger and more solid flowers they lend a grace and charm nothing else can approach. One of the most artistic and altogether pleasing floral pieces at the recent Chicago exhibition was a basket of chrysanthemums in which the singles and the little Baby chrysanthemum were interspersed with telling effect among the ordinary type of double flowered blooms, one color—yellow—being used throughout.

**The old
old story** In our notes on the New York cut flower market two weeks ago we mentioned that the prospects for the violet were good for a few days, "and longer if a reasonable policy is followed by the growers." We did not expect the advice to be taken—that sort of advice is seldom taken. All wise reasoning seems to cease as soon as the temptation to hoard for a special event comes and momentary scarcity provides an excuse for doubling up the price and putting the screws on the buyers. History repeated itself in the violet market on Thanksgiving as we feared. On Monday and Tuesday previous, growers excited by the demand occasioned by the football occasions of the previous week, began their hoarding and turned a deaf ear to the calls for violets declaring they had none to send; on Wednesday—the day before Thanksgiving Day—they disgorged, sent to the market the greater part of the picking of four days, so that forced sales were made at about one-third to one-sixth of the rates prevailing on the previous days. Will they do it again? Yes, indeed.

Our Colored Supplement

CARNATION BRITANNIA

American carnation breeders will be interested to see how our English friends are progressing with carnations of the American type. It is but recently that carnations of this class have received any recognition across the Atlantic, but at last their merits have compelled attention and, once started, the interest has rapidly extended until now a society especially devoted to the interests of this type is under way and a number of noted growers are busy cross-breeding the American and English varieties with gratifying results. Our colored plate sent out as a supplement with this issue depicts the result of one of these crosses—a carnation regarded in England as one of the best scarlets yet offered. It was raised by A. Smith, a carnation grower of Enfield Highway, and received awards of merit from the Royal Horticultural Society and the Royal Botanic Society.

From an American standpoint it would not be pos-

sible or wise to try to justly criticize the variety from the mere inspection of a drawing. The character of the foliage indicates American blood; the short, sturdy, far-leaf indicates English. A fern that almost invariably bursts in this climate. Mr. C. W. Ward has informed us that his experience with English blood has been very much against using it in carnation hybridization, although from the one variety Winter Cheer crossed with an American variety he produced the variety Maceo. He used a number of other English varieties, but never succeeded in getting anything valuable from them, nor did he get anything out of Winter Cheer in subsequent crossings, the variety Maceo being the only one of value. However, the progeny of Maceo proved valuable, and a number of them, such as Harry Fenn and Octoroon, are still in cultivation and highly esteemed. It may be that after the English growers have hybridized a number of years, crossing and recrossing their English-grown varieties with American stock, they will originate some marked improvements especially suitable for cultivation in their climate. The attempt is certainly worth their while.

A Christmas Carol

I

Everywhere, everywhere, Christmas tonight!
Christmas in lands of the fir-tree and pine,
Christmas in lands of the palm-tree and vine,
Christmas where snow-peaks stand solemn and white,
Christmas where corn-fields lie sunny and bright.
Everywhere, everywhere, Christmas tonight!

II

Christmas where children are hopeful and gay,
Christmas where old men are patient and gray,
Christmas where peace, like a dove in its flight,
Broods o'er brave men in the thick of the fight.
Everywhere, everywhere, Christmas tonight!

III

For the Christ-child who comes is the Master of all,
No palace too great and no cottage too small,
The angels who welcome him sing from the height:
"In the City of David, a King in His might."
Everywhere, everywhere, Christmas tonight!

IV

Then let every heart keep its Christmas within,
Christ's pity for sorrow, Christ's hatred of sin,
Christ's care for the weakest, Christ's courage for right,
Christ's dread of the darkness, Christ's love of the light.
Everywhere, everywhere, Christmas tonight!

V

So the stars of the midnight which compass us round
Shall see a strange glory, and hear a sweet sound,
And cry: "Look! the earth is a flame with delight,
O, sons of the morning, rejoice at the sight."
Everywhere, everywhere, Christmas tonight!

—Phillips Brooks.

NEWS OF THE CLUBS AND SOCIETIES

COLUMBUS FLORISTS' CLUB.

The last meeting for November was held on the 27th. President Stephens in the chair. The members in goodly numbers were present, and the meeting proved a most enjoyable one. M. B. Faxon reported as chairman of the committee on prizes at the recent chrysanthemum show. At this exhibition for the benefit of the club we charged each exhibitor 10 per cent. of the first prize in the class of his entry; these entry fees amounted to one-half the prize money awarded. The question of the suggested change of the S. A. F. convention meetings, from August to some date in the autumn, was discussed at length; and it was voted unanimously that the summer meeting as now held was by far the most desirable. The committee appointed to consider the question of advancing the annual membership dues, reported through Guy H. Woodrow, chairman, that they thought it best to make no change at this time, from the present \$2.00 from employers, and \$1.00 a year from employees. A talk on the awarding of prizes at chrysanthemum shows followed, in which Messrs. Woodrow, Westmeyer, Faxon, Torrey, Hills, Williams, McKellar and Currie took part. Both the commercial and exhibition scales of points were explained and illustrated as applied to certain blooms, and so interested did all become that it was late when the meeting finally came to a close. M. B. Faxon offered as a special prize, to be awarded at the next meeting, a year's subscription to HORTICULTURE for the most worthy plant exhibited. The meeting ended by the club extending votes of thanks to each and all the committees who worked so hard to make the chrysanthemum show a success.

FLORISTS' CLUB OF PHILADELPHIA.

Routine matters and election of new members comprised the bulk of the business at the monthly meeting of the above club, on Tuesday evening, Dec. 4th. Wm. Graham, C. H. Elmerman, D. T. Connor and David Rust were appointed on the standing committee for the year on games and pastimes. A special committee on finance headed by Chas. D. Ball, John Westcott, and S. S. Pennock was appointed with power to add to its numbers. A special committee on new membership consisting of G. C. Watson, Fred Habman, and Edwin Lonsdale were instructed to devise ways and means of securing desirable recruits. Convention matters are still only in the discussion stage but the conflict of opinion is now fairly resolved down to the point of taking practical action. The club is to be congratulated on securing so able and experienced a general as Mr. Ball at the head of their finance department. S. S. Skidelsky will address the club on "Our credit system, its uses and abuses" at the January meeting which takes place New Year's Day. An appropriation was made for refreshments on that occasion it being the custom to hold "open house" after an evening.

THE AMERICAN CARNATION SOCIETY.

Carnations registered by James D. Cockroft, Northport, N. Y.

Harvard.—A cross between Prosperity and Maceo, color glowing crimson, just the Harvard color. Size 3 1/2 to 4 inches. Calyx non-bursting, stiff stems averaging 30 inches in length from early fall to spring. Has an exceptionally clean habit and is a free bloomer.

Georgia.—A cross between Prosperity and Morning Glory, color clear white. Size 3 1/2 to 4 inches. Calyx does not burst, strong stems 24 to 30 inches in length. An exceptional keeper with a growth where every shoot produces a flower and is very fragrant.

Faust.—A cross between Maceo and Morning Glory, color bright scarlet. Size 2 1/2 to 3 inches, strong calyx which will not burst, strong stiff stem two to three feet in length. A good clean grower producing flowers all the time.

Special.

About a month back Messrs. Stevenson Bros of Govanstown, Md., registered with this society a carnation under the name of "Debutante." This registration was made early in the week, but in order that registrations may appear in all of the trade papers simultaneously the secretary holds all registrations received during the week until Saturday, and they then appear the following week.

On account of this delay of one week another carnation appeared in print under the name Debutante, although it was not registered with any society. This of course gave this carnation precedence in print, and as the owner thereof would not consent to change the name, Messrs. Stevenson Bros. have kindly consented to change the name of theirs in order that there may be no confusion in the trade.

They now register their carnation under the name of "Splendor," a very pretty shade of pink, large flower, good calyx, stiff stem, extremely prolific and a grand keeper.

ALBERT M. HERR.

Lancaster, Pa.

LENOX HORTICULTURAL SOCIETY

The annual meeting of this society was held Saturday, December 1st. President S. Carlquist in the chair. The following members were unanimously elected officers for the ensuing year: F. Heeremans, president; T. P. Jack, vice-president; Robt. Spiers, treasurer; Geo. Foulsham, secretary; Jos. Tansey, assistant secretary. After all business had been dispatched, refreshments were served and several members gave an exemplification of their vocal and instrumental abilities. Altogether a very enjoyable evening was spent.

GEORGE FOULSHAM, Sec'y.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The speaker at the next regular meeting of the club on Tuesday evening, December 18, will be W. H. Wyman of the Bay State Nurseries, North Abington. The title of his subject will be "Craft and the Craftsman." W. N. CRAIG, Sec.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of Committees.

New York, Dec. 1st. Mlle. Jeanne Rosette, Rose pink and silver reverse, Jap. incurved. Exhibited by the E. G. Hill Co. Scored 90 points commercial scale.

Philadelphia, Dec. 1st. Mlle. Jeanne Rosette, Rose pink, Jap. incurved. Exhibited by the E. G. Hill Co. Scored 86 commercial and 87 exhibition scale.

Cincinnati, Dec. 1st. Mlle. Jeanne Rosette, Pink, Jap. incurved. Exhibited by E. G. Hill Co. Scored 90 points commercial and 91 exhibition scale.

Philadelphia, Nov. 26th. Sport of T. Eaton, White, Jap. incurved. Exhibited by J. S. Stremmer, Princeton, Ky. Scored 81 points commercial scale.

In a note from A. B. Cartledge, chairman of the Philadelphia committee, he states: "The variety shown was so entirely different from Eaton we wondered if the raiser could have been mistaken in any way. I wrote to Mr. Stremmer, and in reply he says he found the variety in 1904 amongst his Eatons, and does not know where it came from, except it be a sport from Eaton. He sent two blooms to the E. G. Hill Co., who said they thought it was Mrs. Jerome Jones. Would the E. G. Hill Co. give their views in the matter?"

Chicago, Nov. 17. Sadie May Stremmer, Sport of Queen. Exhibited by J. S. Stremmer, Princeton, Ky. Scored 81 points commercial scale.

DAVID FRASER, Secy.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

The Conard & Jones Co., West Grove, Pa., submit for registration, canna New York (C. & J. Seedling No. 1549). Height, 6 to 7 feet, with broad bronze leaves and mammoth flowers of intense carmine.

W. J. STEWART, Secretary.

CLUB AND SOCIETY NOTES.

At the next meeting of the Horticultural Society of New York on December 12, at 4:30 P. M., P. O'Mara will speak on "Sports."

The Stark County Horticultural Society, Ohio, met on November 19 and among other topics discussed the insects destructive to fruit.

The Southern Illinois Horticultural Society convened in Marion, Ill., November 27, President J. W. Stanton of Richview presiding.

The Greene County Horticultural Society met at Fresno, Cal., December 1. Dr. Fayette Hurd spoke on "Things Noted on a Run through Europe."

The Nebraska State Horticultural Society has issued a bulletin on school grounds and school gardens giving specific instructions regarding the laying out of the ground, planting, cultivation, etc.

The Wyoming County Horticultural Society met at Tunkhannock, Pa., and elected officers as follows: President, F. H. Fassett; vice-president, W. H.

Swartwood; secretary, E. W. Little, treasurer, C. B. Fassett.

At the meeting of the Worcester (Mass.) Agricultural Society, Nov. 27 the chief interest centered in the election of a new secretary. E. S. Knowles secured the office. President Bill and Treasurer Herrick, were re-elected.

The Utica Florists Club (N. Y.) held its fourth annual banquet on November 26 in Elks' Hall. Fine exhibits of chrysanthemums were made by the Lake View Rose Gardens, C. H. Totty and F. McGowan, John Hains displayed carnation Imperial, F. R. Pierson Co., Winsor, A. J. Guttman, Victory, and Chicago Carnation Co., Red Riding Hood and Aristocrat. Among the speakers were F. R. Pierson, A. J. Guttman and P. R. Quinlan.

RENAMING AMERICAN CARNATIONS.

At the meeting of the R. H. S. on October 23, an award of merit was given for the carnation called St. Louis, which I am firmly of the opinion is none other than the new American variety Victory, it being identical in color and general build. On one of the stands I noticed a variety labelled Mr. W. I. Omwake; this, I believe, is Rose Enchantress, and sent out in America as such. This renaming of varieties by importers, if allowed to continue, will lead to complications. It brought much trouble years ago; for instance, Ethel Croker which was re-named by a London firm Royalty, Enchantress rechristened Fascinator, and several other instances I could quote. Gardeners do not want to buy the same variety under two names.—"New Yorker" in Gardeners' Chronicle, London, Nov. 3, 1906.



NERINS

Grown and Exhibited by Andrew Pow, Newport, R. I.

INTERNATIONAL CONFERENCE ON PLANT HARDINESS AND ACCLIMATIZATION.

To Be Held at New York, 1907.

The responses to the preliminary letter of inquiry issued in the early part of this year have proved so encouraging that the council of the Horticultural Society of New York at the meeting held on October 10th, decided to proceed with the project, and is arranging to hold the conference in New York City about the end of September, 1907.

From all parts of the United States,

from South America and Canada, as well as the West Indian Islands, active interest has been expressed, and at this early date, a number of papers and contributions have been promised. The conference has the endorsement of the United States Department of Agriculture, and the majority of the directors and horticulturists of the state experiment stations have signified their intention of contributing information, or sending delegates.

The great importance of the subjects to be discussed in their relationship to practical horticulture, fruit growing and the nursery trade is evident to every one, and the council of the Horticultural Society of New York, in soliciting your further support, thanks you for any attention in the past.

A special committee of the society in charge of the arrangements for the conference was appointed as follows: James Wood, N. L. Britton, P. O'Mara, H. A. Siebrecht and Leonard Barron. Communications from those interested should be addressed to the office of the society, Room 60, Bryant Building, 55 Liberty street, New York City.

LEONARD BARRON,
Secretary.

October 25th, 1906.

PHOTOGRAPHS OF CARNATION HOUSES.

What a good thing the every day photographs of carnation houses are for the green house builders. The rafters, purlines, trusses, sash bars, wall plates, ventilating apparatus and glass are finely shown. The carnations as a rule look as much like a crop of timothy with a few paper rosettes on sticks stuck among them for flowers, as what they are intended to represent. Why not take transverse sections 12 to 15 feet wide, so that the individuality of the variety shall stand out so as to be identified? Even when the man behind the gun is attempted to be shown why, no one knows.

JOHN THORPE.



SUCCULENTS

Prospect Park Greenhouses, Brooklyn, N. Y.

DISPOSING OF THE PRODUCT OF THE PLANT AND FLOWER GROWER.

Second Prize Essay. By Charles Ingram.

The methods of disposing to the retailer by growers have passed through almost as many stages of evolution within the last twenty years, as have the construction of greenhouses, varieties grown, size of structures, etc. The methods that were fully competent to take care of the market end of the growers' cares up to a very short time ago would now prove totally inadequate to handle the ever-increasing supply, "and the end is not yet."

To my way of thinking there is no one method at present in vogue that would apply equally to all growers, for the simple reason that all growers are not equally favorably situated as regards location of plant. To be more explicit, the grower that is in close proximity to a large centre of distribution can handle a "rush order" with greater facility than one at some distance from said centre, where shipping facilities may be limited to a certain number of expresses a day. Where the former can bring into use anything from a horse and wagon to an auto, the latter is handicapped by distance, etc., although undoubtedly he is better off as regards taxation and several other important items. There are other vast differences between growers that will be referred to later on.

The very largest growers, who produce stock enough to enable them to run a shipping department of their own, on practically the same lines as a wholesale commission house, have, it would seem, almost reached the climax of perfection; but to many growers this method of disposing of their goods would be totally unpractical, so we may safely eliminate the former from the subject and confine our remarks to the case of those growers whose conditions and surroundings do not justify this mode of procedure.

To answer the question at issue according to our views on the subject, a further classification is necessary and to simplify the matter will divide them thus:

Class A.—Growers who are close to a city or cities.

Class B.—Growers too "far out" and who are only able to ship say twice a day.

Class C.—Specialists.

CLASS A.

In those cities where a combination of growers have formed a flower market, it will invariably be found the best medium for the larger growers to dispose of their goods, but we have always thought that the smaller grower would do far better by consigning to a reputable commission house, but again there are cities where there are neither market nor commission house; to growers thus situated we would ad-

vise them to get into line as soon as possible. Before going any further a few words of explanation as to recommending the smaller growers to patronize the commission house, in preference to the market. Many men are good growers, but indifferent salesmen; the commission man will do it more satisfactorily than most men you could hire to do it for you, with infinitely less worry to yourself, and invariably succeed in getting better returns, if all items are faithfully figured in. Several other reasons might be given in favor of the commission house, but simply stating the fact that in our opinion that is the best method for the smaller growers to follow, is all that is necessary here.

CLASS B.

Where growers are restricted as to shipping accommodation, and many both large and small are so situated, we would again name the commission house as the best medium for disposing of their stock. Many growers in years past have consigned goods to commission men at times when they had no other outlet, and because the returns were not satisfactory have held a strong prejudice against them on that account, but it must be remembered that the methods now practiced by these gentlemen have advanced the same as all other lines of horticulture, until today their system is perfected to such an extent that it would seem almost impossible to improve on it. In fact, in most cases where "misunderstandings" occur it is more often the fault of the grower than the consignee. We allude to such instances as where the grower at holiday times disposes of quantities of his goods to retailers; some may think this mode of procedure all right, but look at both sides of the question. Any commission man, at all up in his business, knows pretty nearly the amount of stock to expect from his growers, and figures the effect that inclement weather and other adverse conditions will have on the development of the stock, and makes his calculations accordingly; is it right, we ask, when after expending considerable cash for advertising, and otherwise obtaining orders for goods he honestly expects to handle, to be not only disappointed himself but have to disappoint others depending on him, possibly having the effect of losing their patronage and thereby indirectly damaging the grower himself? Again, although it must be admitted the practice is not nowadays nearly as prevalent as a few years ago, think of the pernicious habit of "holding up" large quantities of stock and landing it on the commission man too late for him to handle to advantage, and quite often in such condition as to be absolutely worthless, and which no reputable dealer would ship, or retailer receive. We crave pardon for inserting a quotation from Kipling's "Mandelay," but the lines always suggest themselves to us when we run across a consignment in such condition.

"Ship me somewhere's east of Suez,
Where the best is like the worst,

Where there ain't no 'Ten Commandments,'

And a man can raise a thirst."

Another vitally important detail is

packing the stock so that it receives the least possible damage in transit. It must always be borne in mind that quite a percentage of these goods have to be reshipped. Right here we would offer a suggestion, which we feel sure is bound to be generally adopted in the near future, viz.: to have light receptacles capable of holding twenty-five, fifty and one hundred of such flowers that could be handled in that manner, such as violets, carnations, certain roses (of course it would be unpractical in the case of extra Beauties, etc.), most bulb stock and several other subjects. This method of displaying "the goods" has been followed in Covent Garden, London, for years, and we have often wondered why it had not been adopted here. We feel sure, however, that American ingenuity will contrive receptacles that will fill the bill. These remarks about "shipping" would be incomplete if we fail to mention two other important items, viz.: cleanliness of all paper, etc., used, and grading. We are all aware how liable one is, if he be a few short of an even number of "firsts," to put in the required number of good "seconds," but it should also be borne in mind that the prospective buyer will almost always "spot" those very ones, frequently with the effect of declining the deal, or else standing out for a reduction in price.

CLASS C.

The specialist is in a distinct class by himself, not alone as regards the "goods" he handles, but in the enviable position he enjoys, in regard to the disposal of the same. Specialists as a rule are so well known, not only in their neighborhood but further afield, that the judicious use of the advertising columns of the horticultural papers, in their case, is all that is necessary; these remarks only apply to the "bona fides," as many call themselves in this class that have no earthly reason for so doing. I once heard a witty son of the Green Isle, in answer to the question of, "What is a specialist?" reply, "A man that thinks he is one, blows his own trumpet, but the 'raal thing,' why, other people blow it for him."

The majority of the foregoing remarks have dealt principally with the cut-flower trade. In regard to the plant business, very few cities are large enough to warrant a plant market, and it seems to us that the methods at present in vogue with the gentlemen engaged in this line are as practical as any that can be recommended, but we cannot miss this opportunity of paying tribute to the vast improvement of the last few years in regard to the methods of packing plants; when one looks back a few years, and remembers the condition in which one received a shipment of plants, they cannot fail to highly appreciate the great improvements that have taken place. The only people who have lost by these improvements are the express companies.

In conclusion, we would state that in this paper we did not start out with any idea of evolving a new mode of procedure, but have tried to offer a few suggestions that might improve existing conditions, which seem to answer their purpose satisfactorily.

ANATHEMA MCGORUM.

A Soliloquy.

Robert McGorum is always entertaining and usually fair. We delight in reading his lucubrations in HORTICULTURE from time to time. There is both instruction and amusement to be got out of them which is something so rare and delectable that we are forgiving even if we do grit a cherry pit in the pie once in a while. Being so strong an admirer of Mr. McGorum gives me, I think, a special privilege in objecting to his remarks on O'Mara vs. Burbank in a recent issue. They were flippant, inconsequential and obscure. They were unjust, impertinent and uncalled for. Why, Robert, the whole horticultural trade is under a debt of gratitude to Mr. O'Mara for the courageous and disinterested stand he has taken in the Burbank matter, and you of all men to try and belittle him! If it had been some "small potato" that wanted to vent its spleen I could have understood that, but the broad and enlightened Robert McGorum! It's the old, old story. There are spots even on the sun!

G. C. WATSON.

CALIFORNIA NOTES.

Statistics are dubiously intermixed as to whether John H. Sievers or F. A. Miller started first in the nursery business in San Francisco, some forty-five years ago. Anyway, Mr. Miller, whom all the trade is regretfully talking about just now, planted at that primitive date the Hayes Valley Nursery, a mile and a half distant from the embryo city of San Francisco. This site is now the center of San Francisco's boundary lines and a portion of the ruins left by the April disaster, since which catastrophe the general health of Mr. Miller has grown to quite an enfeebled condition. However, he a few days ago, as president of the California State Floral Society, attended the first meeting the society has held since the earthquake-fire, and when the secretary read his most positive resignation as president of the association, because of poor health, regrets were spoken by many and felt by all.

A DESIRABLE HOLIDAY GIFT FOR YOUR EMPLOYEE.

There can be no more useful and appropriate Holiday present than a subscription to HORTICULTURE. The more he reads HORTICULTURE the better service he will render you. If you want to give five or more we will be glad to make a special discount, on application.

Other Useful Holiday Gifts.

The Dahlia. By L. K. Peacock. Price, 30 cents.
The American Carnation. C. W. Ward. Price, \$3.50.
Manual of the Trees of North America. C. S. Sargent. Price, \$6.00.
The First Country Park System. F. W. Kelsey. Price, \$1.25.
The Horticulturist's Rule-Book. Bailey. Price, 75 cents.
Chrysanthemum Manual. Smith. Price, 40 cents.
The Chrysanthemum. Herrington. Price, 50 cents.
How to Make Money Growing Violets. Saltford. Price, 25 cents.
Dwarf Fruit Trees. Waugh. Price, 50 cents.

ROCHESTER'S PARK SYSTEM.

The first steps toward acquiring a park system in Rochester were taken eighteen years ago. The original cost of the park lands and the amount expended for maintenance and improvement up to November 1st of the present year, amount to \$1,179,621. President A. B. Lambertson of the park board, estimates the present value at \$2,000,000 at the very lowest figure. Mr. Lambertson believes that the lake-side property recently presented to the city by H. C. Durand is worth at least \$250,000, bringing the total valuation of park lands up to \$2,250,000.

The land presented consists of about 500 acres on the shores of Lake Ontario, near Windsor Beach. It lies back of high bluffs and commands a fine view of the lake and the shores to the east and west. There is a large piece of woodland, cut by ravines with running streams. The frontage on the lake shore is nearly a mile. The property contains nearly one hundred acres of forest and woodland. Its southern boundary is not much over two miles from the present city line, and there is not much doubt that in the near future it will be connected with the city by means of boulevards and trolley lines so as to become the most accessible spot on the lake shore.

The Rochester Democrat and Chronicle, referring editorially to Rochester's good fortune, says that the recent gift of a beautiful tract of land on the shore of Lake Ontario to the city of Rochester for park purposes is suggestive of a chain of parks in Monroe county, similar to those described by Mr. Fredk. W. Kelsey in his interesting book on the Essex county park system. With the city and the remainder of the county acting in harmony much might be done in the direction of beautifying the country and incidentally increasing the value of rural property. The Durand property was, to be sure, a gift to the city; but it is at present far removed and might with propriety be made the beginning of a modest county park system.

HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items.

BUFFALO, N. Y.—E. C. Brucker, 385-87 Elliott St.
CHICAGO, ILL.—Peter Pearson, 929 N. Campbell Av.
CLEVELAND, O.—A. L. Hutehins, 2220 East 74th St.
COLUMBUS, O.—M. B. Faxon, 246 Oak St.
CINCINNATI, O.—Frank W. Ball, 31 East 3d St.
DETROIT, MICH.—Frank Danzer, 1487 Fiftenth St.
INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.
LOUISVILLE, KY.—F. L. Schulz, Jr., 1325 Cherokee Rd.
MINNEAPOLIS, MINN.—G. L. Skutt, 3800 Bryant Ave.
MONTREAL.—William Cooper, 338 St. James St.
NEWPORT, R. I.—David McIntosh, Ledge Road.
PHILADELPHIA, PA.—George C. Watson, Dubson Bldg., 9th and Market Sts.
SAN FRANCISCO, CAL.—Luther Monnette, 806 Isabella St., Oakland, Cal.
TOLEDO, O.—J. L. Schiller, 929 Prouty Ave.

J. N. May is laid up again at his home in Summit, N. J., with his old trouble, phlebitis.

DAHLIAS AT CANNELL'S

Having not returned to Philadelphia I saw a great number of dahlias at the show held at the growing at the different nurseries. I visited, I was much impressed with the superiority of some of the finest of the gorgeous autumn flowers. Messrs. H. Cannell & Sons have a large area of dahlias under cultivation; there are all types from Girdestones dwarf standards, dwarf bedders, single cactus, pompoms (about 2 acros) shows, fancies, to decorative and peony-flowered. The frost had not yet made its sudden appearance as is its wont sometimes early in the autumn, and the Swanley collection was a feast of color such as only an enthusiastic dahlia grower could fully enjoy.

A few of the recent introductions are worthy of note. Mme. Vanden Dalle, rosy pink, a decorative garden variety with broad florets, large blooms, very free, is a most effective flower. Mme. Keller, rosy lake flamed yellow, broad florets. Mme. A. Lumiere, also a decorative with broad florets, soft rosy lilac on a white ground edged rosy lilac. H. Shoemsmith, a cactus variety with narrow florets, color bright glowing scarlet, long florets, dwarf habit. Unique, also a cactus, long rather narrow florets, soft salmon rose, enlivened with amber. Rising Sun, cactus, rather a loose flower, soft shade of rosy amber, center salmon and yellow. Nellie Hemsley, a fancy cactus, color deep velvety crimson maroon, distinctly tipped white. Glow, a cactus, the name well describes the color which is a golden sunlight amber, tips deeper. Mrs. S. T. Wright, a cactus, rather loose petals, color a pleasing shade of rosy lilac, center lighter, very distinct in color which is soft and delicate. Mrs. W. Marshall, a large cactus, soft shade of pale rosy blush, a massive flower, white in the center. Armigo, a cactus, very large, beautiful shade of pale lemon yellow, a self. Thos. Parkin, large flower, rich amber, a self-colored flower of good substance. Octoroon, cactus, a self, deep rich rosy mahogany. J. Kolodelfo, a pure self, fiery velvety crimson, rather loose florets, a very striking flower. J. B. Bryant, immense blooms, very large florets, slightly incurving, deep lemon yellow. Butterfly, cactus, color dazzling bright crimson, tipped pure white, a striking variety. Jeanne Charmet, a decorative, very broad florets, large blooms, color silvery lilac, very free.

C. HARMAN PAYNE.

PERSONAL.

George Masson of Elberon, N. J., sails on Saturday, December 8, for a short visit to his old home in Scotland. HORTICULTURE'S good wishes go with him.

Mrs. Catherine O'Neill, mother of Mrs. P. J. Agnew, of Dayton, O., tripped on the stairs at her daughter's house, November 25, sustaining serious injuries.

William Calder, city engineer of Melbourne, Australia, visited Minneapolis this week; and here for the first time in his life he saw ice skating. Mr. Calder has the oversight of the parks of his native city, and is here for the purpose of studying park systems. He has traveled all through Europe and soon sails for his home on the Island Continent.



DON'T BUY

Unless You Want to Be Con

Orchids have been my leading specialty for years. I have sold more of them than the rest of the wholesale trade altogether. I am still doing so.

If You Want Them

MY HOLIDAY

Will consist of the following unprec
Percivalliana, Cattleya Dowiana, Lælia and
Phalænopsis amabilis, Dendrobium formos
dium Lceanum, Gardenias, Valley, Farleyer
Very Best Poinsettias. No trouble to sh

BUT—Order early to avoid disapp

JAMES McMAN



ORCHIDS

Offered an Up-to-date Florist

No specialty in the flower trade has ever made so remarkable a growth. There are florists who alone to-day use more orchids than were consumed by the entire trade a few years ago.

Am Headquarters

LEADERS

Best variety: Cattleya Trianae, Cattleya Lælia autumnalis, Oncidium splendidum, Cypripedium giganteum, Cypripedium insigne, Cypripedium pubescens, Finest of Yellow and White Daisies, these goods long distances.

Remember there's a limit

**S 42 West 28th Street,
NEW YORK**




CHRYSANTHEMUMS.

Albert Knope read a very instructive paper on this topic before the Detroit Florist Club on November 22. In his introductory remarks he advocated the growing mainly of only those varieties most widely called for by the flower buying public but admitted that the culture of a limited number of varieties outside of the commercial list is necessary for supplying the various public and private exhibitions so much in evidence every season. He asserted that many growers cut their blooms in too young a state and that if allowed to become more mature the flowers would keep better, sell more readily and bring a better price.

He advocated the planting of stock plants on a bench for the purpose of cuttings for propagating, or in frames under sash, protected from frost. As to time for propagation he preferred not later than April 1 for the earliest varieties, May 1 for mid-season varieties and up to the middle of July for the very late ones. For exhibition purposes March or first week in April.

Twelve or fifteen varieties he regarded as sufficient for wholesale market needs. Among the best he mentioned Geo. Kalb, Polly Rose, Ivory, Adelia, Arline, White Bonnafon, Majestic, Mrs. Jerome Jones and Mrs. Chadwick for white; Henry Hurrell, Maj. Bonnafon, Robt. Halliday, Georgianna Pitcher, Yellow Mrs. Jerome Jones, Nagoya and Golden Chadwick for yellow; Glory of Pacific, Marie Liger, Maud Dean, A. J. Bulfour, Wm. Duckham and Dr. Enguehard for pink. Ivory he said would net more money to the grower than any other variety. He favored the plan of single stem growing, giving such varieties as Ivory space of 4x5



FRAN HOUSE
Prospect Park, Brooklyn, N. Y.

inches and other varieties according to the size of their foliage, and a depth of 4 to 5 inches of soil. He favored this shallow soil because of the ease of control of watering and feeding. He advised an application of airslaked lime to the benches before filling and emphasized the desirability of uniform spacing, generous watering at time of planting, and firming of the soil later on should it be loose, or top-dressing of cow-mure should the soil show a tendency to bake.

If soil was in good condition at time of planting he said chrysanthemums would not require much feeding, but

such feeding as is necessary should be deferred until buds come in sight, same to be discontinued after the flowers show color. Pink varieties he finds require the least feeding. Over-feeding is worse than no feeding. Yellow varieties will stand more feeding than pink, and white more than either. Pulverized sheep manure mixed with water and used as a liquid he had found to be an excellent fertilizer.

He urged watchfulness as regards insects, such as black fly which can be destroyed with Nicotinic acid diluted, three teaspoonsful to a gallon of water, and red spider which will require four teaspoonsful to a gallon of water. Chrysanthemums will bear syringing every sunny day during summer but the man at the hose should be careful to get as little water on the soil as possible and syringing should cease after October 1, unless red spider is present, because of the danger of rust and black spot when foliage is allowed to be wet over night. Mildew can be combatted with sulphur and linseed oil applied to the steam pipes which should be done as soon as fringing begins in the fall.

PARK CHRYSANTHEMUM SHOWS.

The chrysanthemum show at Prospect Park, Brooklyn, N. Y., during the week of November 25, was visited by thousands daily, 14,000 being the record the first Sunday.

At Washington Park, Albany, N. Y., the three week's exhibit closed on November 25.

At Mitchell Park, Milwaukee, Wis., the exhibit opened on November 25.

Inclement weather made the attendance less than was expected at the display in Shaw's Garden, St. Louis. The exhibit was unusually good,—it was under a tent brilliantly lighted and open until ten o'clock.

Belle Isle, Detroit, Mich., displayed chrysanthemums on November 25.



CHRYSANTHEMUM SHOW
Prospect Park Greenhouses, Brooklyn, N. Y.



AURORA

The Grand New Pink Rose

This rose is a seedling from Bon Silene and Souvenir du President Carnot. The flowers are large and full, and are produced on strong and stiff stems, with a rich dark green foliage. The color is a beautiful pink with a deeper shading in the center. The keeping quality of the flowers is excellent, and it does not lose its brilliancy of color when kept in the cellar. The habit of growth is strong and vigorous; it has absolutely no tendency to go dormant during the winter and every shoot has a flower bud.

Plants from 2 1/2 in. pots, own roots, ready March

ORDERS FILLED IN ROTATION

\$ 30.00 per 100 - - - - 50 at 100 rates
\$250.00 per 1000 - - - - 500 at 1000 rates

PAUL NIEHOFF
LEHIGHTON, - PENN.

ROOTED CUTTINGS OF

Kaiserin, President Carnot and La Detroit

Strong, healthy, well-rooted cuttings, ready Dec. 1st; price \$2.50 per hundred or \$20.00 per thousand.

Try our strong, healthy, western grown wood from the best corn soil in Illinois.

BASSETT & WASHBURN
HINSDALE, ILLS.

Field Grown Roses.

\$10.00 per 100.

100 varieties, 1 1/2 to 4 feet high.

Crimson Rambler, Mdm. Planer, \$5.00 per 100
Address W. M. NELSON, Augusta, Ga.

MANETTI ROSE STOCKS

A special selected grade for florists' use
Ready for delivery about December 1st
Write for Prices and Information

THOMAS MEEHAN & SONS, Inc.
Box C DRESHIRTOWN, PA.

FERNS, CLEMATIS, RAMBLERS, etc.
10,000 fine Ferns, low, stocky plants, Boston, Pier-son, N. S. etc., 5 and 6-in. pots. Must be sold.
2,000 1-year old Crimson Rambler, 3 to 4 ft.; several cases, \$15 per 100.
5,000 Vinca maj. var. Fine Stock, for 4-in., \$5.00 per 100. 2 1/2-in., \$2.50 per 100.
50,000 Shrubs, Vines, Ampelopsis, Veitchii, Honey-suckles, Clematis, Wistarias, Cannas, etc., that must be sold. List Free.
BENJ. CONNELL, Florist, West Grove, Pa.

We Need Room

We offer good plants at reasonable prices
DIGITALIS gloxiniaeflora .. 60c. per 100
VINCA, mixed, (from white with red eye, pure white) 2 1/2 in. pots, \$2.00 per 100
PRIMULA obc. gr. fl., mixed, 2 1/2 in. 2.50 per 100
BAUDISCH & CO.
Union Hill, New Jersey

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

BUY WHITMANI

THE RECORD BREAKER FERN—IT HAS NO COMPETITOR
Plants in 2 1/2 inch pots, \$25 per 100;
\$200 per 1000

Fine Specimens in 5-inch pots, \$1 each;
6-inch, \$1.50 each; 8-inch, \$5
H. H. BARROWS & SON, Whitman, Mass.

Boston Ferns, Fine Plants

5-in. pots 35c.
6-in. pots 50c.
7-in. pots 65c.

Immediate delivery. Cash with order.

H. N. EATON SOUTH SUDBURY, MASS.

ORCHIDS for SPRING DELIVERY

MARCH, APRIL, and MAY
VANDA CERULEA and **DINOROEIUM WAR INANUM** LOWE
We quote prices per 100 plants
CYPRIPEDIUM CALLOSUM We shall have one shipment of 5,000 plants.
For delivery June or July. We shall have the rare **VANDA SANDERIANA** and can quote prices per single plant or in quantity. **A. HELD, 11-19 William St., NEW YORK**

ORCHIDS

Arrived in Superb Condition
Cattleya Downiana, C. Gigas, C. Mossiae, C. Percivaliana, C. Spectabilissima, C. Labata, C. Eldorado, C. suberba, C. Leopoldin, and many others

Write for Prices
LAGER & HURRELL, SUMMIT, N. J.

ORCHIDS

Now is the time to place your order for freshly imported Orchids delivered next spring. Our facilities for handling large consignments are second to none. Prices are very low, quality considered, fine stock of established Orchids on hand.

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ORCHIDS from PHILIPPINES

PHALÆNOPSIS SCHILLERIANA
We are ready to give quotations upon plants with 1 to 3 leaves, per 100 plants, or upon sound plants without leaves, per 100 plants, for immediate delivery f. o. b. Hamburg.

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ORCHIDS 28 Houses

Imported — Semi-established
Established and Fine Hybrids
Stove and Greenhouse Plants

Inspection invited Correspondence solicited
JULIUS ROEHR'S CO., Rutherford, N. J.

ORCHIDS

Largest Importers, Exporters, Growers and Hybridists in the World
Sander, St. Albans, England
and 235 Broadway, Room 1
NEW YORK CITY

SEED TRADE TOPICS.

When the question of continuing the free distribution of penny packages of seeds was before Congress last session, the bulk of the votes in its favor came from the South. From the action of the South Texas Fruit and Truck Growers' Association, however, it appears that the farmers of the South are not anxious to continue receiving these seeds, but would rather have the money devoted to other purposes of real benefit to agriculture. At a recent meeting of the association strong anti free-seed resolutions were adopted. Among other things the resolutions say that the seeds received from the members of Congress "are usually the varieties known to be unsuited to the soil and climate of South Texas and hence are worthless to us. These seeds are sent to us by our representatives in Congress under the mistaken idea that a favor is being conferred, which mistaken idea we hereby wish to correct. The amount of money spent annually for seed distribution, if apportioned among the United States Experiment Stations would be a thousand times more beneficial to each of us than as it is now spent."

It was therefore resolved that the association should thank the Texas representatives in Congress for past favors in the way of free seeds, but assure them these favors were mistaken kindnesses on their part; that they condemn the practice of free distribution of garden seeds as an economic waste, wholly unjustifiable that "in the future we will not accept from the government free garden seeds; and that we urge our representatives as a favor which we will appreciate to vote against the bill appropriating funds for the distributing of free garden seeds, and to use their influence to have the amount thus saved appropriated to the Experiment Stations of the country." The resolutions are signed by the president, W. H. Travis, Palacios; vice-president, S. A. McHenry, Santa Maria, and secretary, C. A. Walton, Victoria, Texas. The South Texas Fruit and Truck Growers' Association consists of affiliated local associations throughout South Texas and the Gulf Coast country, comprising a membership of more than 1,300.

While it is not expected that the House of Representatives will devote a week to discussing the question whether the government should continue distributing seeds free as it did last session, the matter will no doubt again come before that body, when the agricultural appropriation bill is considered. Last session the House Committee on Agriculture reached the conclusion that it was a waste of money to spend \$242,000 annually in distributing common varieties of garden seeds. The committee also took cognizance of the facts that the seeds were distributed through the mails and entailed a burden on the Postoffice Department and also considerable expense, estimated at from fifty to two hundred and fifty thousand dollars per

annum. The committee omitted the item for free seed distribution, but it was reinserted by the House of Representatives by a vote of 153 to 83 after a debate which raged for nearly a week. One of the strongest objections made to the omission of the item was that the committee had acted without any one appearing before it to object to the distribution. This was explained by the fact that although the seed dealers had objected to the distribution for many years, they had no intimation that the committee would take action on the subject, and therefore did not appear before it. When the point was raised it was of course too late to make representations to the House Committee, but a large delegation appeared before the Senate Committee, and as a result of the hearing that committee reported that a distinct majority was opposed to the plan of free seed distribution and hoped at this session to be able to make a satisfactory change. In order that those opposed to free seeds shall have an opportunity to present their case to the House Committee on Agriculture, that committee has granted them a hearing on December 12th, at which the entire matter will be very carefully gone into. The anti-free seed movement has the support of the National Grange, National Farmers' Congress, and other national, state and local organizations of farmers, together with the horticultural societies, both state and local, and the faculties of many, if not all, of the state experiment stations and agricultural colleges. It is unnecessary to remark that the American Seed Trade Association, the Wholesale Seedsmen's League, and all associations interested in the seed trade are also opposed to this distribution.

It developed that the heavy snow and cold wave which swept New York state in October caused heavy loss to the canners. Thousands of bushels of tomatoes were spoiled, and packing was brought to an abrupt close. One packer states that had the snow held off another week he would have packed 10,000 cans more. As tomatoes are worth nearly \$2 a case, the loss to this firm alone was not far from \$20,000, and many others suffered more or less.

The more recent snow and freeze found hundreds of acres of potatoes undug, and while the freeze was not severe enough to penetrate the ground sufficiently to reach the potatoes, yet they were dug while the soil was simply mud, which will be more or less detrimental to their keeping qualities.

Many acres of cabbages not yet harvested were damaged and rendered unfit for market, and their market value impaired fully fifty per cent. These facts are an unfavorable commentary on the slack and procrastinating methods of many farmers, but they will be the same next year, and the next, and so on ad infinitum.

A few preliminary wholesale price lists have appeared, and these indicate the shortage in many lines by the mark up in prices. These advances were anticipated by the trade in general, but many who sell seeds, and to

whom they are a secondary consideration, particularly those who never order until fall, will find prices an unwelcome surprise. Those who place their orders early not only get the benefit of much lower prices as a very general rule, but usually get better stocks. Moral: Order early.

The expected decline in the price of onions is already a sad reality to those who deal in this malodorous yet savory vegetable, and the railroads are in some instances demanding prepayment of freight charges.

Perhaps one should speak of onions as "fruit," as the efforts of the railroads to classify potatoes as "fruit" makes the term as applied to onions less absurd than it might at first seem. The rate bill permits railroads to grant free transportation to caretakers traveling with perishable fruits. It may seem far fetched to call potatoes "fruit," but as they are perishable goods, subject to serious damage by freezing, it would seem that railroads are justified in issuing passes to those in charge of shipments during freezing weather. Of course freezing does not affect onions as injuriously as potatoes but it does them no good.

It is a matter of general comment that the California seed growers are all very late in visiting the east this year. Are reports of a combination true? Developments will be watched with interest, but no use of comment until we know whether or not these reports are true.

There are reports that onion seed growing is to be resumed in the east on a more or less extensive scale, particularly in Ohio. Another failure in California would give great stimulus to the plan, not alone in Ohio but in other sections of the east.

Peter M. Miller has resigned his position in charge of the flower seed and bulb department at Jos. Breck & Sons Corp., Boston, and sailed on a two months' visit to his home in Scotland, on S. S. Columbia, leaving New York December 1.

SEED TRADE ONLY

Barenbrug, Burgers & Co. are the leading grass seed specialists of Arnhem, Holland. Arnhem has been celebrated for many generations as headquarters for natural grasses. The leading seedsmen of the world look to Arnhem for their supplies of crested Dogstail, Florin, Sweet Vernal, Fescues, Wood Meadow and all fancy grasses for lawns and pastures. Constant growth in any business is proof conclusive that customers receive honorable treatment and full value for their money. Orders from the seed trade are solicited and satisfaction guaranteed. Dr. Stabler's analyses as to purity and germination go with all fancy samples. Write at once to the sole agent for the United States and Canada, George C. Watson, Dobson Building, 9th and Market Sts., Phila.

Our guarantee means something. We are not here today and gone tomorrow. We number among our customers the largest seed houses in the world. Orders should be placed now for spring delivery. Present market rates while without engagement are particularly favorable to buyer. All indications point to greatly enhanced figures in the near future.

WILLIAM HAGEMANN

Wholesale Importer and Exporter of

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MUSHROOM SPAWN

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PURE CULTURE SPAWN

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Fresh Flower, Farm and Garden Seeds, New Mushroom Spawn. Extra quality — French, Japan and Dutch Bulbs. A full line of Agricultural Machinery and Repairs

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QUALITY SEED BULBS PLANTS
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MAKERS of PURE CULTURE TISSUE
COLUMBIA, ALASKA, BOHEMIA
MUSHROOM SPAWN
Fresh Spawn Always on hand.
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COCHRAN MUSHROOM & SPAWN CO.
911 CHEMICAL BLDG. ST. LOUIS, MO

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LILY OF THE VALLEY PIPS

Just arrived and are, as usual, the finest imported into this market no matter under what name. Send for prices.

SPIRAEA	per 100
Japanica—Extra Strong Clumps.....	\$3.50
Astilboides Floribunda.....	4.00
Compacta Multiflora.....	4.00
Gladstone.....	6.50

LILIIUM LONGIFLORUM	per 1000	per 100
6 to 8 inches.....	\$27.00	\$3.00
7 to 9 inches.....	45.00	5.00
Multiflorum, 6 to 8 inches.....	25.00	3.00
7 to 9 ".....	50.00	5.50

J. M. THORBURN & CO.
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Established 1824
SEND FOR MULE BAROMETER—FREE FOR THE ASKING
BRIDGEMAN'S SEED WAREHOUSE
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Props.
Seeds, Bulbs, Plants, Etc.
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Burpee's Seeds


PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

For Prompt Shipment — Just Imported.

SPIRAEA AND LILY OF THE VALLEY
LILIIUM Auratum, Album, Roseum, Rubrum.
Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

SEEDS  **BULBS**

SPIREA 100 1000
JAPONICA.....\$3.60 \$34.00
COMPACTA MULTIFLORA 4.50 42.00

NARCISSUS
SINGLE VON SION......75 6.50
SINGLE MIX'D ALL SORTS .60 5.00
SINGLE JONQUILS......50 4.00

Schlegel & Fottler Co.
26 and 27 So. Market St. BOSTON

GIVE SATISFACTION

Vick's Bulbs

Hyacinths, Tulips, Crocus, Daffodils, Lilies. A large and varied assortment. Send for our Catalogue.
James Vick's Sons,
Rochester, N. Y.

CAULIFLOWER SEED

CABBAGE SEED

HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

Comet Tomato

Those who force tomatoes should give "Comet" a trial. This variety has been the talk of gardeners around Boston the past season. Those who have seen it growing declare there's nothing to compare with it.
Seed, \$5.00 per oz. Trade pocket \$1.00.
WILLIAM SIM, Cliftondale, Mass.

JAPANESE
THE YOKOHAMA NURSERY CO. NEW YORK.
31 BARCLAY STR. NEW YORK.
LILIES PLANTS
BAMBOO STAKES

WAR OF THE ROSES

To save storage will close out a belated consignment of Holland grown stock grafted on the Manetti. Good strong green canes of the following varieties. **10 in a lot, at \$7.00 per 100 while they last.**



- | | |
|---|---|
| General Jacqueminot, brilliant crimson | Madame Gabriel Lulzet, soft rose |
| Perle des Blanches, white | Duke Connaught, velvety crimson |
| Captain Hayward, dark red | Baron Bonstetten, dark crimson |
| Amalia, red, very large | Madame Isaac Pierriere, carmine |
| Anna de Diesbach, lively carmine | General Washington, purplish crimson |
| Charles Wood, lilac and red | Jean Labaud, velvety carmine |
| Monsieur Boucenne, deep crimson | Reine Marie Henrietta, crimson |
| Madame Plantier, pure white | Chas. Lefebvre, light velvety scarlet |
| Climbing La France, silvery rose | Madame Jos. Combet, white |
| Jules Margottin, carmine rose | Alfred Colomb, bright light crimson |
| La France, silvery rose | Baron Bonstetten, maroon |
| Victor Verdler, bright rose, carmine center | Marie Bauman, crimson |
| Paeonia, red, very large | Ball of Snow |
| Duke of Teck, bright crimson | Captain Christy, delicate rose |
| Mrs. John Laluz, soft pink | Coquet of the Alps, white |
| Ulrich Brunner, cherry red | Chas. Lamb, carmine crimson |
| Prince Camille de Rohan, dark red | Crested Moss, dark crimson center |
| Baron de Rothschild, light pink | Blanche Moreau, extra white |
| Magna Charta, pink | Louis Van Houtte, brilliant vinous crimson, |
| Fisher Holmes, brilliant crimson | fragrant |
| Duke of Edinburgh, bright crimson | Princess de Bearn, vermilion |
| John Hopper, bright rose, carmine center | Chlo, delicate satin blush |
| Paul Neyron, red | Comtesse de Schulerburg, dark rose |
| Leuchstern, white and rose | Madame Berard, light yellow |
| Persian Yellow | |

W. ELLIOTT & SONS, 201 Fulton Street, NEW YORK

FALL GRASS ON LAWNS.

The discussion of this vexing problem has been of much interest to the writer for a few years ago the pest was so prevalent here as to seriously injure the lawns. Several methods were followed; in fact, about everything was tried except pulling by hand, a means few are situated so they can indulge in it. Good sharp scythes, with men that knew how to keep them sharp, proved of great help, but when the "Clipper" lawn mower came out it was seen at once that this was just what we had been waiting for. This machine, working on the same principle as the hay mower, by means of the teeth, runs under the crab grass, lifts it up, and the knife does the rest. If the "Clipper" mower is used as soon as the grass shows signs of flowering and once again later in bad spots before seed is matured, there will be no recurrence of the trouble the next year provided, of course, good grass seed is sown on the bald spot made so by the death of the crab grass.

The Clipper mower is not the kind of implement the average man wants to push for half a day, neither is it prescribed to be used before residents have had their breakfast—better wait until there are other sounds abroad also. It can, however, be warranted to eradicate this pest as no other method will, and only entails a little more "push" than the every-day routine of lawn mowing, plus the grass seed.

E. O. ORPET.

So. Lancaster, Mass.

RAWSON'S HIGH GRADE SEEDS

for the most critical

GARDENER, FARMER or FLORIST

Catalogues mailed free

W. W. RAWSON & CO.
5 Union St., BOSTON, MASS.



PURE CANADA HARDWOOD ASHES.

The Best, Cheapest and Most Lasting Fertilizer.

Used by all leading Florists, Plantmen and landscape gardeners, for best results they have no equal. Write for prices and information.

JOHN JOYNT, Lucknow, Ontario, Can.

VERBENA SEED

Our strains of MAMMOTH FANCY VERBENA are unequalled in color, size of bloom and brilliancy. They are sown by the most critical verbena growers the country over.

What one prominent grower thinks of it.

I bought two ounces of your MAMMOTH VERBENA seed. It came up as thick as grass and the colors were fine.

Phila. Pa.

G. ASCHMANN.

	TRADE PKT.	OZ.
MAMMOTH FANCY Blue and purple	\$.30	\$1.50
" " Pink . . . . .	.30	1.50
" " Scarlet . . . . .	.30	1.50
" " Striped . . . . .	.30	1.50
" " White . . . . .	.30	1.50
" " Mixed colors . . . . .	.30	1.50
REGULAR STRAIN Mixed colors . . . . .	.25	1.00

SALVIA (Scarlet Sage)

Every florist knows the difficulty in getting good, salvia seed, buy your supply from us, and you won't be among the disappointed crowd.

	TRADE PKT.	OZ.
BONFIRE (Clara Bedman)	\$.40	\$2.50
DROOPING SPIKES40	2.00
LORD FAUNTLEROY Very dwarf50	
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SILVER SPOT40	2.00
SPLENDENS25	1.25

WRITE TODAY for our complete list of new crop flower seeds; just ready.

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Just Received

Japan Lilies

Exceptionally Fine Bulbs

	Per doz.	Per 100	Per 1000
Lilium auratum, 8-9 (220 bulbs to case)	\$ 70	\$4 50	\$42 00
" spec. album, 8-9 (220 " " ")	1 50	6 00	62 00
" rubrum, 8-9 (200 " " ")	90	5 50	50 00
" " Melpomene, 8-9 (200 " " ")	1 00	6 00	55 00

Write for prices on Forcing Narcissus Dutch Hyacinths, Tulips, Lily of the Valley, Begonias, Gloxinias, Fern Balls, etc.

JOHNSON SEED COMPANY, - 217 Market Street, Philadelphia, Pa.

Herbert W. Johnson of the late firm of Johnson & Stokes, President

FLOWERS from CHRISTMAS to EASTER

AZALEAS

Our stock this season is handsomer than ever. Anybody in want of a quantity will do well to inspect our plants before placing their order. We have only popular American varieties: Schryveriana, Nishe, Paul Weber, Prof. Wolters, Raphael, Simon Madaer, Verveenaia, Louis de Kerchove, Mme. Van der Conyn en, Deutsche Perle, Dr. Moore, John Ellwallyn, Mme. Cam Van Langenhove, Mme. Jos. Verveae, Paul de Schryver, Memoire de l' Van Houtte, Sigismund Rucker.

Diam. Per doz. 100	Diam. Per doz. 100	Diam. Per doz. 100
8-10 in. \$3 50 \$25 00	14-15 in. \$7 50 \$50 00	18-20 in. \$25 00 \$200 00
10-12 in. 4 50 35 00	15-16 in. 9 00 75 00	20-24 in. 30 00 300 00
12-15 in. 6 00 45 00	16-18 in. 12 00 90 00	

Order now and save heavy express charges. Impossible to ship by freight in cold weather.

Forcing Roots and Pot Grown Shrubs

Spirea Japonica	Per doz.—100—1000	11 50
Compacta		5 00
Astilboides Floribunda		5 50
Gladstone		10 00
H. Witte (a great improvement over Astilboides Floribunda and one of the best Still better than the so-called Superba and Blondin)		3 00 20 00
Parmita , the best scarlet variety		2 00 15 00
Convallaria Polygonatum Also called Giant Lily of the Valley. It has been forced quite extensively in England. We tried a few last year and they proved to be very handsome. Large crowns.		1 50 12 00
Lily of the Valley , Berlin and Hamburg Pips		\$14 00
Dielstra Spectabilis , large clumps		6 00
Gladiolus Colvillei rubra		6 50
The Bride		8 50
Amaryllis , New Hybrid, all flowering size bulbs, fine strain		6 00
Lilacs , Charles X, Marie Legraye and Mad. Lemoine (double white)		9 00
Cytissus Laburnum (Golden Chain)		12 00
Deutzia Cracilis		12 00
Viburnum Opulus , in bushy form		6 50
In Standard form, very handsome		15 00
Staphylea Colchica		7 50
Wisteria , pot-grown		9 00
Acer Negundo Variegata . This is the so-called variegated Ash-leaved Maple, extensively forced in England for church decorations on account of the beautiful silvery foliage when forced. Extra fine strong plants, pot grown		12 00
Acer Polymorphum , dark leaved varieties, p t grown		18 00
Japanese Maples forced made a very fine foliage effect.		
Crataegus , Paul's Scarlet (Double Scarlet Hawthorn) pot grown		\$15 00 to 20 00
Also a few double white at same price.		
Robinia Hispida (Moss Locust Acacia) scarlet		12 00
Azalea Mollis		4 00 9 00 12 00
Mollis chinensis		12 00

Mollis chinensis Anthony Koster	Per doz.	Per 100
Rustica	12 00	12 00
Mollis , in standard form	12 00	12 00
Amigdalus chinensis , double white and red flowering Almonds, pot grown	9 00	9 00
Chionanthus Virginica (White Fringe) pot grown	9 00	9 00
Daphne Cneorum	6 00	6 00
Kalmia Laticolia , fine budded plants	12 00 & 15 00	
Wegelia , Eva Kahlke	9 00	9 00
Spirea , Antony Waterer	9 00	9 00
Cerasus Avium , double white Cherry	9 00	9 00
Prunus triloba , in standard form, very fine trees, well budded	12 00	12 00
Almonds , double flowering, in standard form	12 00	12 00
Ribes sanguineum	9 00	9 00
Rhododendron japonica	9 00	9 00
Rhododendrons , best forcing varieties, according to size		
\$2 00, 12 00, 18 00, 24 00 and 30 00		30 00
Crimson Ramblers , field grown, extra strong plants	5 00	25 00
Smaller plants	3 00	15 00
Baby Ramblers , extra fine plants, 4 and 5 inch pots	4 00	4 00
Imported dormant plants	4 00	25 00
These are extra strong bushy plants.		
H. P. Roses , a quantity in the following varieties: Gen. Jacquinet, Baroness Roth-child, Frau Karl Druschki, Duke of Edinburgh, Mrs. J. Laing, Paul Neyron, Mad. C. Luiz, Capt. Christy, Caroline Testout, Perle des Blanches, Ulrich Brunner, Magna Charta. Imported plants		12 00
Roses , Standard Magna Charta		6 00
These are specially selected for forcing purposes. While Standard Roses do not force very well, we had a quantity of these last year for Easter and they made very handsome specimens.		
Baby Ramblers , Standard, very fine for forcing		18 00

KENTIAS

We have an immense stock of **Bolmoreana** and **Fosteriana**, in all sizes from 15 inches to 15 feet. Our \$1.00, 2.00, 3.00, 4.00 and 5.00 sizes, in single and made-up plants, are particularly handsome. We want the reader to see the stock we offer. Order by mail for call and select the plants you like the most. **Arancaria Fxelsa** fine plants at 50c., 75c., \$1.00, \$1.50, \$2.00, \$2.50 and \$3.50 each. These are all perfect, and good value for the money. **Aspidistra**, Green and Variegated. In all sizes, \$1.00, \$2.00 and \$3.00 each.

BOXWOOD, Pyramidal

These plants are conceded to be the finest ever imported to this country. (Exceptional value.)
 2 ft. \$0.75 each 3 ft. \$1.50 each 4 ft. \$3.00 each 5 ft. \$5.00 each
 2 1/2 ft. 1.00 each 3 1/2 ft. 2.00 each 4 1/2 ft. 4.00 each 6 ft. 6.00 each
Bush Boxwood, for window boxes, 25c., 35c. and 50c.
Bay Trees. We have a large number in all sizes. Ask for prices.
 We are pleased at all times to receive visitors at our nurseries. We have 100 acres planted with the most interesting nursery stock in the country.
SEE WHOLESALE CATALOGUE.

BOBBINK & ATKINS, NURSERYMEN AND FLORISTS Rutherford, N. J.

ARTHUR COWEE
GLADIOLUS SPECIALIST
 Meadowvale Farm
BERLIN, N. Y.
 HAS UNDER CULTIVATION
OVER 100 ACRES
 COMPRISING
The Best Mixtures, Collections and Named Varieties in Existence.
 Write for 1906 Catalog

John Waterer & Sons, Ld.
AMERICAN NURSERY
BAGSHOT, ENGLAND

have the finest stock of recognized **Hardy Rhododendrons, Azaleas, Andromedas**, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

John Waterer & Sons are the great exhibitors of Rhododendrons in London.

LADY GAY
 AND
HARDY GARDEN ROSES
 in choice varieties. Field grown plants, first quality stock including Frau Karl Druschki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.
 Catalogue mailed on request.
M. H. WALSH
 ROSE SPECIALIST WOODS HOLE, MASS.

PEONIES
 \$6.00 to \$10.00 per 100
EDWARD SWAYNE
 WEST CHESTER PA.
SPECIMEN NURSERY STOCK
 Deciduous Trees and Shrubs, Evergreens, Rhododendrons, Azaleas, over one hundred (100) acres of the choicest varieties.
 SEND FOR PRICE LIST
COTTAGE GARDENS CO.
 Queens, Long Island, - New York

DAHLIAS. Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.
DAVID HERBERT & SON,
 Successors to L. K. Peacock, Inc.
ATCO, N.J.

Brockton Dahlia Farm
 Has the largest and finest collection of Dahlias in United States, with prices that will suit the trade. Send for price list.
W. P. LOTHROP, Prop.,
 East Bridgewater, Mass.

DAHLIAS 100 named varieties, at 5c and up. Many rare. List Free.
Adams Supply Co., Lowell, Mass.

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Patronize our advertisers, they will treat you right

VICTORY HAS MADE GOOD

CUTTMAN & WEBER
The Wholesale Florist
of New York
43 W. 28 St.,
Grower
Lybrook, L. I., N. Y.

Place your orders early for rooted cuttings. Prices \$6 per 100, \$50.00 per 1000. DISCOUNT FOR CASH WITH ORDER

GRAFTED

Bride, 'Maid, Morgan and Liberty.

Orders will be taken for

March and April Delivery.

We will graft on order only,

R. T. McGORUM, Natick, Mass.

A "BREAD AND BUTTER" CARNATION

Cutting one third more than Fair Maid now in the same house. Tested four years.

Debutante

is the name. You can't find a better carnation. Rooted Cuttings ready for delivery after January 1, 1907.

\$10.00 per 100. \$95.00 per 1000.

All Clean Stock. Order Now.

J. W. HOWARD, Somerville, Mass.

CHICAGO CARNATION CO.,

A. T. PYFER, Manager,
Joliet, Ill.

STILL RETAIN THEIR SUPREMACY AS CARNATION GROWERS

15 entries at Chicago won us 15 first prizes. Our stock is healthy and the cuttings will be well rooted. January delivery on:—
Red Riding Hood (Scarlet) \$12.00 per 100 \$100.00 per 1000 Aristocrat (Bright Cerise) \$12.00 per 100 \$100.00 per 1000
White Perfection 6.00 " " 50.00 " " Rose Pink Enchantress 7.00 " " 60.00 " "

AND MANY OTHERS. SEND FOR LIST.

SOME POPULAR CHRYSANTHEMUMS IN FRANCE.

One of the most popular varieties in France is Duchesse d'Orleans a big incurving white Japanese that has been grown there for some years. Not only for exhibition but also for market is it held in esteem, and this fact was brought home to me very clearly when visiting a market grower who had 10,000 plants of it in pots for the cut flower market. Tokio is also a well patronized variety for specimen plants, a pale pinkish lilac bloom with quilled florets. F. S. Vallis is everywhere and always large. Lt. Col. Duroiset another Mme. Gustave Henry, Sapho, N. C. S. Jubilee, W. R. Church, Mrs. Barkley, Le Peyron, Henry Second, Ch. Schwarz, Souvenir de Lombez, Prest. Bevan, W. Duckham and Alliance are met with in very many of the exhibits. C. H. P.

BUSINESS CHANGES.

J. G. Haber has taken the Bock greenhouses at Cambridge, Mass., and will continue the business.

Charles Thorley has opened a new store at 86th street and Columbus avenue, New York.

Fleischman has leased a store in the arcade of the new U. S. Express Company's building at Rector street and Trinity place, New York.

HEALTHY VIOLETS. Send us 25 cents for George Saltford's invaluable book on Violet Culture. The whole truth and nothing but the truth.

JOLIET CARNATION NOTES.

The Chicago Carnation Company's Aristocrat with its fine color and perfect flower and stem is all and more than is claimed for it. No sign of any unhealthiness in the 24,500 plants. As a keeper Aristocrat is unsurpassed; for 10 days flowers from the Chicago show kept in good condition in my house and outlasted several other good kinds. Some other good ones are the following: Red Riding Hood, a promising scarlet, of the Craig-Victory class, with sturdy, stiff, robust growth. Rose Pink Enchantress, rosy pink, overlaid with a silvery shimmery gauze-like venation—a beauty. J. A. Valentine, a heavy, smooth petalled Daybreak, very close to being "next"; he has begun to sport, a plant with a single brighter than Candace colored flower has happened since the show. Haines' Imperial, a bizarre, blush rose and pink flower. Gen'l Guild, a red red flower of peculiar build. Among all the whites, White Perfection wins by 4 lengths. The crop of carnations generally is very late here—indeed this is a general complaint all around.

Here is the glorious Golden Eagle of Dorners'—the chrysanthemum that I said last year was Bonaffon five times intensified (and I repeat it). What a blessing it would be if good-natured, inexperienced employees could be prevented from making almost fatal blunders! This is what happened to Golden Eagle—nearly killed with too much solid and too much liquid manure from the start; fortunately a goodly number of stock plants escaped. JOHN THORPE.

SMITH'S CHRYSANTHEMUM MANUAL.

The revised edition of this indispensable volume, with its one hundred pages of wisdom and experience, has just been issued. No chrysanthemum grower can afford to dispense with it; every minutest detail in culture for commercial or exhibition purposes is covered in the plainest manner. No one is better qualified than Elmer D. Smith to treat on chrysanthemum topics and the book should have a very large sale. The price is 40 cents. Copies can be obtained from HORTICULTURE.

Asparagus Plumosa Nanus

Fine bushy plants, 2 1/2 inch pots, \$3 per hundred, \$20.00 per thousand, 3 inch pots, \$4.00 per hundred, \$30.00 per thousand. Want the room.

E. G. BLANEY,
163 Bucrill Street,

Telephone 513-4.

Swampscott, Mass.

Asparagus Robustus

The best of all Asparaguses for a pot plant, strong three inch stock at

\$6.00 per 100, \$50.00 per 1000

ALBERT M. HERR, Lancaster, Pa.

GOVERNOR HERRICK THE NEW VIOLET

Originated and introduced by H. R. CARLTON, Willoughby, O.

We have the following stock in the finest condition to plant and now is the time to plant:

2 1/2 inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000
4 " " 2.50 " " 12 " 100 " 75 " 1000

It will pay you. Try it. Order at once.

CHRYSANTHEMUM NOVELTIES

CHIS YEAR I have to offer once more a splendid lot of new varieties. Among them will be found
IN WHITES—MISS CLAY FRICK, the white sport of Wm. Duckham, winner of the Frick prize at Chicago. The best new variety of the year.

Mrs. A. T. Miller, Moneymaker, Kathleen Stoop.

IN PINKS—Miss Mariam Hankey, Mrs. Walter Jenks, etc.

IN YELLOW—Mary Godfrey, Mrs. Geo. Hunt, Norman Davis, Buttercup, etc. Also J. W. Moreman, Mrs. Henry Barnes, W. J. Crossley, and many others shown at the different exhibitions.

I offer young stock for delivery early in the new year. 50 new varieties of singles, the latest craze. Send for my complete list issued December 1.

CHARLES H. TOTTY, MADISON, N. J.

CHRYSANTHEMUMS

STOCK PLANTS

WHITE

Early—George S. Kalb, Polly Rose, Willowbrook.
 Mid-Season—Miss Minnie Wanamaker, Ivory, Mrs. H. Robinson, Niveus, Queen, Alice Bryon, Eureka.
 Late—Mrs. McArthur, Timothy Eaton, W. H. Chadwick.

PINK

Early—Glory of the Pacific.
 Mid-Season—Pink Ivory, J. K. Shaw, Adela, Mrs. Ferrin, Ethelyn, A. J. Balfour, Wm. H. Duckham, Dr. Enguehard, Marlon Newell.

Guaranteed to be strong, healthy plants, \$1.00 per doz., \$6.00 per 100.

A. N. PIERSON - Cromwell, Conn.

Late—Maud Dean, Lavender Queen, The Harriott.

YELLOW

Early—Monrovia.
 Mid-Season—G. Pletcher, Col. D. Appleton, Golden Gate.
 Late—Major Bonnaffon, Mrs. Trenor L. Park, H. W. Reiman.

RED

Cullingfordii, Matchless.

BRONZE

Kate Broomhead, Mrs. Duckham.

IMPERIAL

NEW PINK VARIEGATED GARNATION

This novelty has been exhibited extensively and has received 10 Certificates of Merit and several Diplomas. It is a free and continuous bloomer and always comes in long stems.

PINK IMPERIAL

This is of a pleasing pink color, and cannot fail to become a favorite with every grower. It is a sport from Imperial, and has all the good qualities of that variety; its color is magnificent.

These two varieties are my own origination. Prices: Selected cuttings, delivery commencing in December, 1906.

\$2 50 per doz., \$12.00 per 100, \$100.00 per 1000
 50 at 100 rates, 250 at 1000 rates.
 5% discount for cash with order.

PLACE YOUR ORDER AT ONCE
JOHN E. HAINES, Bethlehem, Pa.

CARNATIONS.

Red Chief—Bright scarlet—early and very productive. \$12.00 per 100; \$100.00 per 1000. Average 3 in. flower. A leader in every respect.

Bonnie Maid—Clear pink edged white.—\$12.00 per 100; 100.00 per 1000. Large well formed bloom. Very early and productive.

F. DORNER & SONS CO.
 La Fayette, Ind.

Carnations Rooted cuttings

READY FOR DECEMBER DELIVERY.

Pink Lawson, Variegated Lawson, White Lawson, Mrs. T. W. Lawson, Harry Peon, Manly, Boston Market, Fair Maid, Enchantress.

HENRY A. STEVENS CO.
 East Street, Needham, Mass.

JOHN E. HAINES,

The leading scarlet brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass. All shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted, healthy cuttings leave the place. Rooted cuttings ready Dec. 15, 1906. Price, \$8.00 per 100; \$50 per 1000.

JOHN E. HAINES, Bethlehem, Pa.

MABELLE NEW PINK CARNATION

FOR 1907

COLOR—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most Pinks, the brightest sun does not injure the color. **SIZE**—3 to 4 inches in diameter when established. **ODOR**—Pleasing, but not strong. **STEMS**—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. **HABIT**, etc.—A very quick, a free grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. **PRODUCTIVENESS**—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. **Stock Limited. Delivery January 5th to 10th and later.**

Price \$12.00 per 100, \$100.00 per 1000

The H. WEBER & SONS CO., Oakland, Md.

CHRYSANTHEMUMS

C. Tousef and Nonia, the money makers as we have found them \$1.00 per doz.; \$7.00 per 100; \$60.00 per 1000 Pacific, Estell, Willowbrook, Halliday, Kalb and L. Harriet, 60c per doz.; \$4.00 per 100; Cash with order.

EGGELING FLORAL COMPANY

653 S. Grand Ave., St. Louis, Mo.

RICHMOND ROSE 2 1/2 in.	100	1000
KAISERIN " "	\$11.00	\$100.00
VARIEGATED LAWSON R.C.	4.00	35.00
ENCHANIRESS	6.00	50.00
QUEEN and LAWSON	3.00	25.00
	2.00	18.00

E. H. PYE, FLORIST
 UPPER NYACK, N. Y.

PREPARE FOR CHRISTMAS

Prices slaughtered one half

ARAUCARIAS OUR SPECIALTY

Were never so low in prices in the history of Araucaria cultivation. Every-body can afford to buy one

THE TALK OF THE LAND

THE KISSING BUG OF THE WORLD. Makes everybody jump. WHAT? Don't you know? It is the ARAUCARIA with its everlasting green. The only Christmas tree that makes the gloomy happy. No home complete without an Araucaria on Christmas day.

LOOK!

ARAUCARIA COMPACTA ROBUSTA.—The prettiest little evergreen tree on earth. The plants as broad as long; 6 in. pots, 3 years old, 15 to 18 in. high, 3 to 4 tiers, \$1.25; 6 in. pots, 4 years old, 18 to 22 in. high, 3 to 4 tiers, \$1.50; 6 to 7 in. pots, 4 years old, 22 to 25 in. high, 4 to 5 tiers, \$1.75; 6 to 7 in. pots, 5 years old, 25 to 30 in. high, 4 to 5 tiers, \$2; specimen plants, can't be beat in beauty, \$2.50.

ARAUCARIA EXCELSA GLAUCA.—6 in. pots, 3 to 4 tiers, 14 to 16 in. high, 3 years old, \$1.00; 6 in. pots, 3 to 4 tiers, 18 to 20 in. high, 3 years old, \$1.25; 6 in. pots, 4 to 5 tiers, 20 to 25 in. high, 4 years old, \$1.50; 6 to 7 in. pots, 4 to 5 to 6 tiers, 25 to 27 in. high, 4 years old, \$1.75; 7 in. pots, 4 to 5 to 6 tiers, 27 to 30 in. high, 4 years old, \$2.00; specimen plants, beauties, \$2.50.

ARAUCARIA EXCELSA. 6 in. pots, 5 to 6 tiers, 18 to 23 in. high, 4 years old, 75¢; 6 in. pots, 5 to 6 to 7 tiers, 23 to 25 in. high, 4 years old, \$1.00; 6 in. pots, 5 to 6 to 7 tiers, 25 to 30 in. high, 4 years old, \$1.25 to \$1.50; specimen plants, \$1.75 to \$2.00 each.

No Scarcity of Kentia Palms Cheaper and Better than Ever

KENTIA FORSTERIANA.—7 in. pots, made up, one large size about 40 in. high in center, and three smaller sizes around which gives them a fine appearance, \$2.00 to \$2.50 each; 6 to 7 in. pots, single plants, 5 to 6 leaves, 36 to 40 in. high, \$1.25 to \$1.50 each; 6 in. pots, 4 years old, 32 to 36 in. high, 5 to 6 good leaves, \$1.00 each; 5 1-2 to 6 in. pots, 4 years old, 5 good leaves, 20 in. high, 60 to 75 to 85¢, each; 4 in. pots, single, 25¢.

Cash with order please.

All goods must travel at purchaser's risk.

Mention whether to ship in pots or not.

GODFREY ASCHMANN
1012 Ontario St., Philadelphia, Pa.

THE CHRYSANTHEMUM, by Arthur Herrington. The most complete and practical book on the cultivation of the chrysanthemum published for Americans. Illustrated. Price 50c. postpaid. Horticulture Pub. Co., 11 Hamilton Place, Boston.

STATEMENT OF PLANT IMPORTS.

There were entered at the port of New York, November 1, 1906, to November 26, 1906, inclusive, the following plants and bulbs:

From Belgium:—Henderson, Peter & Co., 7 cs. plants; McHutchison & Co., 3 cs. plants; Sundry consignees, 11 cs. plants; Sundry forwarders, 17 cs. plants, 312 tubs laurel trees, 189 cs. trees and plants, 46 cs. trees.

From Holland:—Darrow, H. Frank, 30 cs. plants, 41 packages plants, 7 cs. bulbs; Elliott, Wm. & Sons, 39 cs. plants, 10 cs. trees; Henderson, Peter & Co., 4 cs. plants, 20 cs. plants and bulbs, 18 cs. bulbs; McHutchison & Co., 144 cs. plants, 20 pgs. plants, 6 cs. flower roots; Ouwerkerk, P., 57 cs. trees; Rolker & Sons, August, 22 cs. plants, 3 cs. flower roots; Stump & Walter Co., 12 pgs. plants, 54 cs. bulbs and flower roots; Thorburn, J. M. & Co., 77 cs. flower roots; Vaughan's Seed Store, 25 cs. plants, 69 pgs. plants, 24 cs. trees; Ward, Ralph M. & Co., 1 cs. flower roots; Sundry consignees, 62 pgs. plants, 7 cs. bulbs, 7 cs. trees, 40 cs. flower roots; Sundry forwarders, 401 cs. plants, 369 cs. bulbs, 69 cs. trees, 87 cs. flower roots, 538 cs. flower roots and plants, 2 cs. plants, 81 cs. bulbs, 4 cs. trees.

From Germany:—Darrow, H. Frank, 341 cs. lily of the valley; Elliott, W. & Sons, 52 do.; Hagemann, Wm. & Co., 253 do.; Henderson, Peter & Co., 33 do.; McHutchison & Co., 88 do., 18 cs. plants; Meyer, Chas. F., 717 lily of valley, 4 cs. plants; Rolker, August & Sons, 272 lily of valley, 45 cs. plants; Scheepers, John & Co., 266 cs. lily of valley; Taat, W., 104 do.; Thorburn, J. M. & Co., 33 do.; Vaughan's Seed Store, 142 do.; Ward, Ralph M. & Co., 48 do.; Weeber & Don, 30 do.; Stern, F., 525 do.; Sundry consignees, 258 do.; Order, 1138 do.; Sundry forwarders, 833 do., 123 cs. plants, 11 bales plants. Total, 5,133 cases lily of the valley.

From France:—Henderson, Peter & Co., 2 cs. plants; Vaughan's Seed Store, 1 pg. trees; Sundry consignees, 19 pgs. plants; Sundry forwarders, 42 cs. plants.

From England:—Darrow, H. Frank, 10 cs. trees; Hagemann, Wm. & Co., 55 cs. bulbs; McHutchison & Co., 28 cs. trees, 2 cs. plants; Vaughan's Seed Store, 3 cs. trees; Sundry consignees, 23 cs. plants, 22 cs. trees; Sundry forwarders, 5 cs. plants, 33 cs. trees, 13 cs. bulbs; Order, 20 pkgs. plants, 1 cs. trees.

Extract from the Foregoing Report.

There were entered during the week from 21-26 November, 1,749 cases of lily of the valley consigned as follows:

Darrow, H. F., 194 cases; Elliott, Wm. & Sons, 52 do.; McHutchison & Co., 88 do.; Rolker, August & Sons, 130 do.; Thorburn, J. M. & Co., 33 do.; Taat, W., 35 do.; Stern, F., 525 do.; Sundry forwarders, 327 do.; Sundry consignees, 45 do.; Order, 320 do.

Imports of plants, etc., as per manifests entered at the custom house, New York, from November 27 to December 3, 1906:

From Belgium:—Sundry consignees, 5 cs. plants, 35 bales plants; sundry forwarders, 2 cs. plants.

From Holland:—Darrow, H. Frank, 23 cs. plants; McHutchison & Co., 24 cs. plants; Ouwerkerk, P., 2 cs. plants, 17 cs. trees; Thorburn, J. M. & Co., 1 cs. roots; Vaughan's Seed Store, 1 cs. plants; sundry consignees, 44 cs. plants; sundry forwarders, 21 cs. plants; 27 cs. flower roots, 4 cs. trees, 206 cs. plants and bulbs; general order, 5 cs. plants.

From England:—Boddington, A. T. & Co., 2 cs. trees; forwarder (Ammerman & Patterson), 6 cs. plants; Yokohama Nursery Co., 7 cs. trees; sundry consignees, 5 cs. plants, 2 pgs. trees; general order, 18 pgs. trees.

From France:—Darrow, H. Frank, 3 pgs. plants; McHutchison & Co., 18 pgs. plants; sundry consignees (Haynes, C. A. & Co.), 48 pgs. plants.

From Germany:—Darrow, H. Frank, 116 cs. lily of valley; Scheepers, J. & Co., 75 cs. do.; Stump & Walter Co., 150 cs. do.; Taat, W., 71 cs. do.; Yokohama Nursery Co., 50 cs. do.; sundry consignees, 127 cs. do., 8 cs. plants; sundry forwarders, 154 cs. lily of valley, 21 pgs. plants; general order, 225 cs. lily of valley.

OBITUARY.

George Ellwanger.

This venerable nurseryman, whose reputation was truly international, died at his home in Rochester, New York, on November 26, in his 90th year. Mr. Ellwanger was a native of Wurtemberg, Germany, and came to this country when 19 years old, already well trained in the knowledge of horticulture and landscape gardening. In 1839 he purchased the nursery business of Reynolds & Bateman at Rochester and laid the foundation of the Mt. Hope Nurseries, forming a partnership in 1840 with the late Patrick Barry as Ellwanger & Barry, a firm which in itself and individually in its members has exercised a widespread influence on the nursery and plant industry of the country. Two years ago many of his friends prepared and presented to Mr. Ellwanger on his birthday a tribute expressing their appreciation of his friendship, which had been "a blessing and an inspiration." "You laid the foundation of your life in the four cardinal virtues of justice, prudence, temperance, and fortitude," said the tribute, "and we hold up your life as an example to our children." This testimonial tells the story of Mr. Ellwanger's character as a man and a citizen.

Mrs. Margaret Lynch.

Mrs. Margaret Lynch, mother of P. Joseph Lynch, of the Dingee & Conard Co., died at West Grove, Pa., on the 29th ult., aged 70. The high mass services were held at St. Mary's church December 3rd. Interment was at St. Mary's cemetery. Mr. Lynch has the sincere sympathy of the trade in his bereavement.

Edson M. Crossman.

Edson M. Crossman of Batavia, N. Y., died on November 20, at the age of 73. He is survived by one brother, L. H. Crossman of Buffalo, and a sister, Mrs. C. W. Huggins of Batavia.

—FOR THE HOLIDAYS—
NORFOLK ISLAND PINES



Araucaria Excelsa

4 inch pots, 5 to 6 inches high, 2 tiers.....	40c. each
6 " " 12 to 14 " " 3 "	75c. "
6 " " 16 to 18 " " 3 to 4 tiers.....	\$1.00 "
6 " " 18 to 20 " " 4 "	1.25 "
7 " " 22 to 24 " " 4 to 5 "	1.50 "

Araucaria Excelsa Glauca

6 inch pots, 13 to 15 inches high, 3 tiers	\$1.25 each
7 " " 22 to 24 " " 4 to 5 tiers.....	2.00 "

Araucaria Robusta Compacta

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

Adiantum Farleyense. Extra fine stock. The best we have ever offered—every plant a specimen.

4 inch pots.....	\$5.00 per dozen, \$40.00 per 100
5 " "	9.00 " " 70.00 " "
6 " "	12.00 " "

Nephrolepis Scotti. Dwarf, perfect bushy specimens, as fine as can be produced—6 inch pots at 50c. each.

Nephrolepis Whitmani. The finest of all the Ostrich Plume varieties. Well furnished, compact plants, in 8 inch pans, \$2.00 each.

Boston Ferns. Good, compact plants, in 6 inch pots, 50c. each.

Mixed Ferns for Dishes. A good assortment of useful varieties.

2 1/4 inch pots	\$3.50 per 100; \$30.00 per 1000
3 " "	6.00 " " 50.00 " "

HENRY A. DREER,

714 Chestnut Street, Philadelphia, Pa.

YOU NEED THEM

We still have for sale UNPOTTED AZALEAS AT IMPORT PRICES. We also offer fine plants in bloom, ALL BEST CHRISTMAS VARIETIES, followed by later blooming sorts up till Easter.

**Palms, Ferns
 And Decorative Plants**

IN FULL ASSORTMENT

A Large Assortment of Ferns for Jardinières. Also Araucarias, Rubbers, Pandanus, Aralias, Dracaenas, Aspidistras, Marantas, Crotons, etc., etc.

Wholesale Price List on Application.

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PERKINS STREET NURSERIES

ROSLINDALE, BOSTON, MASS.

**Let Us Give You Some
 Especially Low Prices**

ON THE FOLLOWING FIRST CLASS STOCK

Lemons, American Wonder, Ficus Elastica, Kentia Belmoreana, Kentia Forsteriana, Latania Borbonica, Gardenia Florida, Gardenia Veitchii (for forcing), Biota Aurea Nana (Berckman's Golden Arbor Vitae.)

*This year we have Ten Acres of
 This Valuable Conifer*

WE HAVE AN UNUSUALLY FINE LOT OF THE
 FOLLOWING FIELD GROWN ROSES:

Climbing Clothilde Soupert,	\$10.00 per 100
Crimson Rambler,	60.00 per 1000
Dorothy Perkins,	50.00 per 1000
Mme. Plantier,	50.00 per 1000
Marle Pavle,	60.00 per 1000

P. J. BERCKMANS CO. (Inc.)

FRUITLAND NURSERIES, AUGUSTA, GA.

Established 1856

Over 450 Acres in Nurseries

MENTION THIS AD.

Bells! Bells!! Bells!!!

We quote the following prices on

Christmas Bells

16 inch Bells	Per Dozen	\$9.00	8 inch Bells	Per Dozen	\$.90
14 inch Bells		4.50	7 inch Bells		.50
12 inch Bells		2.50	5 inch Bells		.50
10 inch Bells		1.00			

GUARANTEED HOLLY

Same price, same quality as last year. Single case \$5.00; two or more at \$4.50; five or more at \$4.00.

Best American Mistletoe, Bright and well-berried. Price reduced from 50c. to 35c. per pound.
Artificial Poinsettias, best in the market, price 20.00 per hundred.

Laurel Roping
First Class Stock
6 to 8 cents per yard

Holly Wreaths
12 cents each

Laurel Wreaths
Regular 12 in. Size
\$2.00 per dozen

N. F. McCarthy & Co.

Flowers and Florists' Supplies

84 Hawley Street, BOSTON

DURING RECESS.

On Saturday evening, December 1, occurred the second in the series of three bowling games between the Madison gardeners and the New York seedsmen, at the Park Row alleys, New York City. Three strings were played and totals were as follows, the seedsmen winning twice:

MADISON.		
Herrington	141	205
Totty	109	121
Schulz	94	165
Keating	223	148
Dnekham	189	219
SEEDSMEN.		
A. Rickards	141	205
W. Rickards	112	141
Wheeler	146	131
Protin	182	161
Chadwick	169	193

Norman S. Wilson was official scorer; referees, R. Vince and David Adams. The final game will be played at Madison.

The gunners of the Florists' Club of Philadelphia have arranged a two-day tournament Dec. 20 and 21, open to amateurs only from Eastern Pennsylvania, New Jersey and Delaware. All amateur shooters from the aforesaid territory are eligible to enter independent of their club affiliations. From present indications it will take three days to run off the tournament.

INCORPORATED.

Bryn Mawr Greenhouse Co., Seattle, Wash., by M. D. Ballard, Roy A. Wilson, and R. P. Ballard; capital \$10,000.

Adiantum Pedatum

Adiantum Pedatum grows its fronds 24 inches high, with 5 branches on a stiff stem. No better adiantum grown for cutting or as a pot plant. Strong 5-inch pots, \$10.00 per 100. Cash, ex. prepaid. Try 25 and you will want more.

YELLOW CALLA. ELLIOTTIANA, strong bulbs, the coming pot plant, 35c. each; \$4.00 per 12.

A. MITTING, 17-23 KENNAN STREET, SANTA CRUZ, CAL.

PHILADELPHIA NOTES.

The J. Stern Company are now comfortably located in their new quarters at 125 North 10th street. Mr. Stern is highly pleased with the interest the trade has manifested in the new move. The firm is manufacturing most of its own basket work, wheat sheaves and other staples, and is in touch with the best foreign sources of supply. The best wishes of all go to a deserving and enterprising house in this new evidence of courage and success.

Robert Craig made a ten strike when he secured Ficus pandurata, which has proved a great introduction. His son, William Craig, is a close second this year in getting hold of half the stock of the new fern Nephrolepis Amerpohlil. "Green Mist" would be a good name for this variety. It does not look like a nephrolepis at all. I offered ten dollars for a little bit in a two inch pot; was laughed at.

Overbrook Gardens of Edward A. Stroud have made a good name on extra early flowered cyclamens this season. Mr. Prince, the foreman, has promised us a short account of his

cultural methods, which will be published in these columns shortly.

Visitors in Detroit: H. A. Bunyard, representing Arthur T. Boddington, New York, and Mr. Goetz of Saginaw, Mich.

HOLLY

Best Delaware Stock, dark green and well berried, delivered by freight, prepaid.

Single case.....\$4.00
5 cases or more, per case.. 3.50

HOLLY WREATHS

Made from the best dark green Delaware Holly, with four large clusters of bright red berries, per 100, \$10.00.

Cash: Order early and will ship on any date desired.

H. AUSTIN, Felton, Del.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Christmas Holly

Best Well-Berried,
Dark Green Foliage
\$5.00
per case

Laurel Festooning, good and full, 5c. and 6c. per yard. Laurel Wreaths extra heavy, \$2.00 per doz. upwards. Special Southern Smilax, \$3.50 and \$7.00 per case. Pine Trimming, all round, 5c. per yard. Pine Wreaths, \$1.50 and \$2.00 per doz. Hardy Cut Dagger and Fancy Ferns, \$1.25 per 1000. New Crop Bronze and Green Galax, \$1.00 per 1000.

Get your Red Immortelles

BOXWOOD SPRAYS, \$15.00 PER 100 LBS.

We are headquarters for all FLORISTS' SUPPLIES, such as WIRE DESIGNS, CUT WIRE, all kinds of LETTERS, IMMORTELLES, CYCAS LEAVES, SHEAVES OF WHEAT, RIBBONS, CORRUGATED BOXES of all kinds, etc.



CUT FLOWERS

Our New Wholesale Cut Flower Department is now in full operation, and is already doing a large business. Centrally located, thoroughly equipped, and prepared to handle consignments to growers' advantage. We are prepared to take care of a large Holiday Shipping Trade.

Order now your Roses, Carnations, Lily of the Valley, Violets, etc., etc.

HENRY M. ROBINSON & CO.

11 and 15 Province St., and 9 Chapman Place, BOSTON, MASS.

Telephones, Main 2617-2618

CUT FLOWER MARKET REPORTS

BOSTON The market continues in the same healthy condition as last week. The

Thanksgiving Day business was generally satisfactory. The supply of chrysanthemums was heavy, growers evincing a desire to get the remaining flowers cut off and out of the way, and thus other flowers were crowded out to some extent and prices were held in check. Tea roses generally and violets sold especially well, at reasonable figures. White carnations were slow property and a good many were left over.

BUFFALO The last week in November closed with a satisfactory week's business to both wholesaler and retailer, but a few days previous to Thanksgiving stock of all kinds had been very plentiful and a good many flowers had been carried over from day to day, especially chrysanthemums and roses of ordinary quality, with hopes of a good outlook for better values on Monday. The beginning of the week opened fairly brisk and a good quality of leftovers were moved at lower prices than was looked for to make place for shipments coming in Tuesday and Wednesday, shipping trade being somewhat lighter than in previous years. There was an abundant supply of roses, of which the select grades sold rapidly, but the ordinary moved slowly. Killarney and Bridesmaid were soft and decidedly off-color. Beauties were in good supply and fine blooms, but demand was light. Lily of the valley, narcissi, Roman hyacinths, stevia,

swainsona and peas sold well. Violets were in good supply and of excellent quality. Carnations of colored varieties were strong in demand, and all orders were cut down to make them go around; a fairly good supply was had and prices on this line were good. Smilax, adiantum, ferns, leucothoe and boxwood sprays were much in demand. Reports of retailers stated that a good Thanksgiving week's business was had.

CHICAGO The Thanksgiving Day trade was not what was expected; stock was plentiful, but the quality was not up to the average. Bridesmaid and Bride roses showed the effect of the continued dark and warm weather, most of them having weak stems and Bridesmaids were off color. Chrysanthemums were in good supply but the demand was light. The usual large shipping orders for carnations were absent owing to the scarcity of this flower all through the season, and the consequent high prices demanded. American Beauties were about the only thing that was scarce. The market kept firm until Tuesday, then prices went lower and stock sold in some cases for nearly half of what it brought the day before.

This week flowers are plentiful in nearly all grades with the exception of American Beauties. The quality of Bridesmaids is not first class. Carnations are becoming more abundant; however, they are not up to the standard in quality, but we look forward to improvement in all stock if colder weather sets in, which generally

brings bright days of sunshine. Paper white narcissi are appearing and sell well. Lily of the valley is plentiful. The chrysanthemum season is nearly at an end; the growers cut them down pretty well for Thanksgiving, and about the only variety of good quality is the Jeanne Nonin and not many of them are to be seen.

WASHINGTON Thanksgiving Day business was very good and a great amount of stock was disposed of. Chrysanthemums and violets sold particularly well. There is a steady demand for the New York violets, there being but little local-grown stock of good quality in sight. The Rhinebeckers are surely living up to their reputation. Their stock is of glorious color. Good roses are more plentiful than usual at this season.

Continued on page 615

The second annual ball of the wholesale florists' employees of New York City will be held at the Manhattan Casino, 155th street and Eighth avenue, on Saturday, January 5.

Southern Wild Smilax, 50 lb. cases,.....\$5.00
Holly, superb as to foliage and heavily berried,
none prettier.....\$2.50 per 2x2x4 crate
Mistletoe, well berried.....1.00c. per lb.
Sabal Palms.....\$2.00 per 100

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Long distance Phone. Postal and Western Union
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E. SANDERSON, Eutaw, Ala.

WILLIAM H. DONOHOE

Telephone No. 3034 Madison. **No. 2 West 29th St.,** One door off Fifth Ave., **NEW YORK**

The leading florists in all the large cities of the United States and Canada can safely intrust their theater and steamer orders to me. Personal attention guaranteed. I ask for but one trial to insure your confidence.

NEWS NOTES.

J. Dallas of Lenox, Mass., has recently purchased the greenhouses of J. H. Ives at Danbury, Conn.

George Humphrey of Red Wing, Minn., sustained loss by fire on November 27. The insurance is reported as small.

An oil stove was upset in the conservatory of Fred L. Judd, Danbury, Conn., starting a fire which destroyed the house. Loss, \$8,000; partly insured.

J. O. Elwell of Kennebunk, Me., has made great improvements in his greenhouse, added an office and cold storage room, and is putting in a new boiler and heater.

Reports from Western Massachusetts indicate that the hardy cut ferns which have been so abundantly supplied from this section in the past are coming from storage in poor condition. The best grades will command a high price before spring.

A. Podenhaupt of Omaha, Neb., an employe of A. Donaghue, fell from the wagon he was driving on November 16, in front of the home of G. H. Swohoda, and died instantly. Heart trouble was the cause. He was 56 years of age and leaves a widow and three children.

Alexander J. Guttman of New York City has just returned from a trip to Bethlehem, Pa., where, after a critical examination of the growth, habit, etc., of the new Carnations Imperial and Pink Imperial he made arrangements with the raiser, John E. Haines, to disseminate these two promising varieties this season.

The transportation of the flowers from the Spencer home to St. John's church on December 2, the day of the funeral of the late Samuel Spencer, in Washington, required the use of three large delivery wagons, and even they could not take all. There were large designs in almost every form known, and the most expensive stocks were used. Practically all the floral designers of the city furnished something.

FLORISTS' EXHIBITIONS.

Jacob Schulz gave his annual chrysanthemum show last week which was one of the best displays ever seen in Louisville.

R. E. Loeben of Gloversville, N. Y., has had an unusually large display which was visited and admired by throngs of people.

B. A. Mick of Wellsville, O., delighted visitors with an excellent show and reception on Nov. 17. His store was attractively decorated.

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.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

N. F. McCARTHY, Manager
66 Pearl Street. BOSTON, MASS.

PENN
THE FLORIST

43 Bromfield St., BOSTON

is **right on the spot**, ready to deliver
Holiday Orders in

BOSTON AND VICINITY
at reasonable rates.

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Temporarily Located
at
13 Congress Street
CHICAGO
AUDITORIUM ANNEX Tel. Harrison 585

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Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO
Both 'Phones 2670 Main

FRED C. WEBER
FLORIST
4326-28 ST. LOUIS, MO.
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Established 1873
Long Distance Phone Bell Lindell 676

WILLIAM L. ROCK
Flower Co.
KANSAS CITY, - MO.

will carefully execute orders for Kansas City and any town in Missouri or Kansas.

Have You Read the Advertisements
this Week?

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

ALEX. McCONNELL


571 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

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42 West 28 St., NEW YORK
"FLOWERS BY TELEGRAPH"

WASHINGTON,
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We ship to all points in Illinois and Iowa.
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BAYERSDORFER QUALITY

In Holiday Goods as in all other Florists' Supplies is what you want. Our Grade, Our Variety, Our Full Values, in Fancy Baskets, Jardinieres, Pot Covers, Bells, Immortelles, Immortelle Wreaths, etc., cannot be duplicated on this continent. All fresh goods. We are now fully settled in our spacious new quarters at

1129 ARCH STREET

WHERE WE OCCUPY THE ENTIRE BUILDING

H. BAYERSDORFER & Co., PHILA., PA.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

FLOWERS BY TELEGRAPH

Holiday Orders for Boston, Cambridge, Brookline and surrounding territory carefully filled and delivered by

HOUGHTON & CLARK

396 Boylston Street, - BOSTON

J. NEWMAN & SONS

Execute Orders for

CUT FLOWERS and DESIGN WORK

For Delivery in Boston and Vicinity

Mail or Telegraph J. NEWMAN & SONS
Explicit Directions 24 Tremont Street, BOSTON

SEND HOLIDAY ORDERS

For Delivery In

BOSTON

And Vicinity to

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Prompt Attention to Telegraphic Orders.

Telegraph **ORDERS** Mail

FOR

HOLIDAY FLOWERS

for delivery in

BROOKLYN

Filled Promptly and Satisfactorily.

JAMES WEIR'S SONS,

324 Fulton Street, BROOKLYN, N. Y.

The Rosary Flower Co.

24 East 34 Street, NEW YORK

Telegraph your Christmas orders for delivery in New York and vicinity. All orders will receive our

Prompt and Careful Attention

London Paris Berlin

Thos. F. Galvin
Incorporated.

— Established 1850 —

CHOICE ROSES, ORCHIDS, AND VIOLETS

124 Tremont St. Boylston and Fairfield Sts.
Tel. Oxford 1737, 1738, 1739 Tel. Back Bay 2323, 2324.

POINSETTIAS

long stem, good flowers; for delivery NOW and until Christmas in almost unlimited quantity and exceptionally

well grown stock. \$20.00 to \$40.00 per 100.

CHRISTMAS GREENS—PLACE YOUR ORDERS EARLY

Holly, Lycopodium, Laurel, Boxwood, Mistletoe.

LEO. NIESSEN CO. 1217 Arch St., PHILA.

AMERICAN BEAUTY
and all other Roses
CHRYSANTHEMUMS
LILY OF THE VALLEY
CARNATIONS
WELCH BROS.
226 Devonshire St., BOSTON, MASS.

CUT FLOWER BOXES
EDWARDS FOLDING BOX CO
MANUFACTURERS
PHILADELPHIA, PA.

EVERYTHING SEASONABLE IN
CUT FLOWERS
EDWARD REID, Wholesale Florist
1526 Kanstead Street, PHILADELPHIA
Store Closes 8 P. M.

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WHOLESALE
CUT FLOWERS

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

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In writing advertisers, mention Horticulture

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

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FLORISTS' EXCHANGE
217-219-221-223 Diamond St.
PITTSBURG, PA.
Largest Wholesale House Between
New York and Chicago.

CHRYSANTHEMUMS
by the thousand.
Beauties. Carnations. Violets
Superb Illustrated Supply Catalogue just
out. Send for one.

A. L. RANDALL CO., 19-21 Randolph St.
CHICAGO.

DAILY CONSIGNMENTS
From 40 to 60 Growers
We can care for your cutflower wants to
advantage.

E. F. WINTERSON CO.
45-47-49 WABASH AVE., CHICAGO

POEHLMANN BROS. CO.
Grow and Ship the Finest
AMERICAN BEAUTIES
in the World.
35-37 Randolph St., - CHICAGO, ILL.
Booking Thanksgiving Orders Now.

	CHICAGO November 28	ST. LOUIS November 12	PHILA. December 5	BOSTON December 6
ROSES				
Am. Beauty, Fan. & Sp.	40.00 to 50.00	20.00 to 25.00	..... to 50.00	30.00 to 50.00
" Extra.....	30.00 to 35.00	12.50 to 15.00	30.00 to 40.00	15.00 to 25.00
" No. 1.....	12.00 to 15.00	8.00 to 10.00	20.00 to 25.00	8.00 to 12.00
" Lower grades.....	6.00 to 8.00	4.00 to 6.00	4.00 to 15.00	3.00 to 6.00
Bride, "Maid, Golden Gate, F. & S.	10.00 to 18.00	5.00 to 6.00	12.00 to 15.00	6.00 to 10.00
" " Ordinary.....	4.00 to 6.00	2.00 to 4.00	4.00 to 8.00	2.00 to 4.00
Liberty, Richmond, Fan. & Sp.	10.00 to 18.00	5.00 to 6.00	12.00 to 15.00	6.00 to 12.00
" " Ordinary.....	4.00 to 6.00	2.00 to 4.00	5.00 to 10.00	3.00 to 5.00
Chateaux, Fan. & Sp.	10.00 to 12.00	5.00 to 8.00	12.00 to 15.00	6.00 to 12.00
" Ordinary.....	4.00 to 6.00	2.00 to 4.00	5.00 to 8.00	2.00 to 4.00
Killarney, Fan. & Sp.	10.00 to 15.00	..... to 12.00	15.00 to 15.00	6.00 to 10.00
" Ordinary.....	6.00 to 8.00	..... to 5.00	5.00 to 8.00	2.00 to 5.00
CARNATIONS				
Fancy.....	5.00 to 6.00	2.00 to 3.00	4.00 to 6.00	3.00 to 4.00
Ordinary.....	3.00 to 4.00	1.50 to 2.00	2.00 to 3.00	1.50 to 2.00
MISCELLANEOUS				
Chrysanthemums, Fancy.....	30.00 to	5.00 to 40.00	25.00 to 30.00	8.00 to 12.00
" Ordinary.....	15.00 to 20.00	..... to 10.00	10.00 to 15.00	4.00 to 6.00
Cattleyas.....	..... to 50.00	..... to 60.00	..... to 60.00	50.00 to 75.00
Lilies.....	15.00 to 18.00	..... to 15.00	15.00 to 17.00	8.00 to 12.00
Violets.....	.75 to 1.35	..... to 1.00	1.00 to 1.50	.75 to 1.00
Gardenias.....	..... to .....	..... to 60.00	..... to 75.00	..... to
Lily of the Valley.....	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00	2.00 to 4.00
Mignonette.....	..... to .....	..... to 4.00	4.00 to 5.00	1.00 to 2.00
Adiantum Cuneatum.....	1.00 to 1.50	1.00 to 1.50	1.00 to .....	.50 to 1.00
" Croweanum.....	1.00 to 2.00	1.00 to 1.50	1.50 to	1.00 to 1.50
Smilax.....	12.00 to 15.00	..... to 12.50	15.00 to	8.00 to 12.00
Asparagus Plumosus, strings.....	..... to 50.00	25.00 to 50.00	50.00 to .....	..... to 50.00
" " & Sprengerii bunches	35.00 to 50.00	25.00 to 50.00	50.00 to	20.00 to 50.00

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

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for Samples.

E. A. BEAVEN, Evergreen, Ala.

CUT FLOWER MARKET REPORTS

COLUMBUS

We had a large business. Thanksgiving week, although the weather was dull and damp, which must have hurt trade a great deal. The greatest demand was for chrysanthemums, which sold freely and at good prices; the varieties most prominent were Jeannie Nonin, W. H. Chadwick, Golden Wedding and Major Bonaffon, and for these good prices were obtained. Next to them American Beauty roses were most in demand. Carnations went slow as the price was a trifle high. Violets found an active demand, Princess of Wales bringing 25 per cent. higher price than Marie Louise. Quite a goodly number of plants were disposed of, but these sell only slowly, at Thanksgiving. On the whole we had a very satisfactory business.

CINCINNATI

Thanksgiving Day trade was very satisfactory and the supply of cut flowers with but one or two exceptions was equal to the demand. There was no advance in prices but the slaughter sale that had been going on was brought to a close. Chrysanthemums have taken a back seat now and roses and carnations are again coming to the front. Poinsettias are beginning to appear on the market and thus far have sold well. There will be a good supply of this showy flower for the holiday trade. Violets are more plentiful but the supply is still insufficient; the single ones are the best sellers. Roses and carnations are really fine at present but the former do not realize near what they are worth. A number of big weddings last week caused a run on lily of the valley and decorative stock. Pot plants are scarce, with the exception of begonia Gloire de Lorraine.

DETROIT

Thanksgiving Day trade is reported far in excess of previous years by all florists. It was a miniature Christmas, giving the wise manager pointers how to prepare for the real Christ-

mas three weeks hence. Better grades of carnations retailed readily at \$1.50 per dozen and all the good stocks of roses and chrysanthemums were cleared up early. Now that the chrysanthemum season is about passed we can draw our conclusions for another year. The local market used single-stem flowers and well-grown pot plants very readily, in fact was short of supply most of the time. It was the lower grades only which went to waste. One retail store alone sold this season nearly 35,000 chrysanthemum blooms at from \$3.00 to \$5.00 per dozen.

INDIANAPOLIS

The Thanksgiving trade among the retailers was reported good all over the city. While great quantities of stock were moved still the volume of business did not exceed that of last year. An abundant supply of everything was to be had. A slight advance in prices was noticed in some lines. Violets continue to be very short in supply, though excellent in quality as far as they go. Roman hyacinths and paper whites are on the market but have little demand. A few poinsettias are seen with good prospects for a big crop for the holidays. Smilax is in good supply, while asparagus and maiden hair show a tendency to be scarce.

LOUISVILLE

The conditions of business the past week averaged satisfactory, although there were two or three very slow days. Chrysanthemums are about over, and the demand for them this year was greater than could have been expected. Carnations find their usually good demand, and the supply and quality are good. Roses find a fair demand and can be had in great quantities. Violets and lily of the valley sell well. Other stock is up to a satisfactory point.

NEW YORK

New York has been experiencing a touch of the usual after-holiday stringency in flower supply which, were it not for the abundance

of chrysanthemum stock, have assumed the character of a 2004-1 one famine. The conditions of weather and supply have, however, been such that the Thanksgiving Day prices are maintained on most lines this week. The trade for the holiday was excellent, marking a substantial advance over that of previous years. Violets were the only erratic factor in the situation. They had been manipulated to a figure which the available product did not justify, and the accumulation at the climax broke the violet market in pieces as usual.

PHILADELPHIA

Trade was very brisk here last week. There was Thanksgiving, the Army and Navy game, and several out of town affairs to stir things beyond the normal. Everything sold well. Roses improved in stem and color and jumped on an average thirty per cent. in price. The dull weather and lower temperature affected the cut also. Yellow chrysanthemums were much in demand and scarce. The best that are reaching the market now are all white varieties. Immense quantities of violets were handled both local and out-of-town stock. The former sold best being more fragrant. Cypripediums are coming in freely. All orchids are plentiful but the demand is so good that the high prices still continue.

TWIN CITIES

Thanksgiving week closed one of the best the trade has ever known. Good chrysanthemums were scarce in St. Paul and the demand for other high grade stock was remarkable. Minneapolis had a better supply, but here, too, everything sold, and the growers turned down outside orders. Poinsettias were plentiful and sold at \$12.00 per dozen. Growers are complaining of the continued dark weather; aside from this, everybody would be satisfied.

For Other Market Reports, See 611.

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	Last Half of Week ending Dec. 1 1906	First Half of Week beginning Dec. 3 1906	Last Half of Week ending Dec. 1 1906	First Half of Week beginning Dec. 3 1906
Roses				
Am. Beauty, fan and sp.	30.00 to 40.00	50.00 to 60.00	1.50 to 2.00	1.50 to 2.00
" extra	15.00 to 25.00	25.00 to 35.00	..... to 30.00	..... to 25.00
" No. 1	6.00 to 10.00	8.00 to 12.00	3.00 to	3.00 to
" Lower grades	2.00 to 4.00	3.00 to 5.00	50.00 to 75.00	50.00 to 75.00
Bride, 'Maid, Golden Gate, fan & sp	8.00 to 10.00	8.00 to 10.00	1.00 to 2.00	1.00 to 1.25
" " " ordinary	2.00 to 5.00	2.00 to 5.00	12.00 to 16.00	10.00 to 12.00
Liberty, Richmond, fancy & special	10.00 to 12.00	10.00 to 12.00	15.00 to 50.00	25.00 to 50.00
" " " ordinary	1.50 to 3.00	2.00 to 4.00	2.00 to 4.00	3.00 to 4.00
Chatenay fancy and special	8.00 to 10.00	10.00 to 12.00	..... to .....	..... to
" " " ordinary	1.00 to 3.00	2.00 to 4.00	..... to 1.00	..... to 1.50
Killarney, fancy and special	5.00 to 8.00	10.00 to 12.00	..... to 1.50	..... to 1.50
" " " ordinary	1.50 to 3.00	2.00 to 4.00	10.00 to 15.00	10.00 to 15.00
Carnations, Fancy	3.00 to 4.00	3.00 to 5.00	25.00 to 50.00	25.00 to 50.00
			15.00 to 35.00	15.00 to 35.00
Carnations, Ordinary				
Chrysanthemums, fancy				
" ordinary				
Cattleyas				
Violets				
Lilies				
Gardenias				
Lily of the Valley				
Nigronette				
Adiantum Cuneatum				
" Croweanum				
Smilax				
Asparagus Plumosus, strings				
" " & Sprengeri, bunches				

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TO DEALERS ONLY.

	CINCINNATI December 3	DETROIT December 3	BUFFALO December 3	PITTSBURG December 3
ROSES				
Am. Beauty, Fan, and Sp.	30.00 to 35.00	35.00 to 40.00	40.00 to 50.00	45.00 to 50.00
" Extra	20.00 to 25.00	25.00 to 30.00	30.00 to 40.00	40.00 to 50.00
" No. 1	15.00 to 20.00	20.00 to 25.00	25.00 to 30.00	30.00 to 40.00
" Lower grade	5.00 to 10.00	10.00 to 15.00	10.00 to 20.00	10.00 to 15.00
Bride, "Maid, Golden Gate, F. & S.	5.00 to 6.00	6.00 to 8.00	8.00 to 10.00	10.00 to 15.00
" " " Ordinary	2.00 to 4.00	4.00 to 6.00	6.00 to 8.00	8.00 to 10.00
Liberty, Richmond, Fan, & Sp.	5.00 to 6.00	6.00 to 8.00	8.00 to 10.00	10.00 to 15.00
" " " Ordinary	5.00 to 6.00	6.00 to 8.00	8.00 to 10.00	10.00 to 15.00
Chatenay, Fancy	5.00 to 6.00	6.00 to 8.00	8.00 to 10.00	10.00 to 15.00
" " " Ordinary	3.00 to 4.00	4.00 to 6.00	6.00 to 8.00	8.00 to 10.00
Killarney, Fan & Sp. ....	..... to	6.00 to 8.00	8.00 to 10.00	10.00 to 15.00
" " " Ordinary .....	..... to	4.00 to 6.00	6.00 to 8.00	8.00 to 10.00
CARNATIONS				
Fancy	3.00 to 4.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00
Ordinary	1.00 to 2.00	2.00 to 4.00	2.00 to 4.00	1.00 to 3.00
MISCELLANEOUS				
Chrysanthemums, Fancy	10.00 to 20.00	15.00 to 18.00	15.00 to 20.00	30.00 to 40.00
" " " Ordinary	4.00 to 8.00	6.00 to 12.50	8.00 to 15.00	15.00 to 30.00
Cattleyas .....	..... to	50.00 to .....	..... to .....	..... to
Lilies .....	..... to	12.50 to 15.00	12.00 to 15.00	10.00 to 15.00
Violets	1.00 to 1.50	1.00 to 1.50	1.50 to 2.00	1.00 to 1.50
Gardenias .....	..... to	25.00 to .....	..... to .....	..... to
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Mignonette .....	..... to .....	..... to	2.00 to 3.00	..... to
Adiantum Cuneatum .....	..... to 1.00	..... to 1.50	1.00 to 1.50	.75 to 1.00
" " " Crown .....	..... to	1.50 to 2.00	1.00 to 1.50	1.25 to 1.50
Smilax .....	..... to 12.50	12.50 to 15.00	..... to	15.00 to 15.00
Asparagus Plumosus, strings	40.00 to 50.00	50.00 to	40.00 to 50.00	35.00 to 50.00
" " " " & Sprengeri, bunches	25.00 to 35.00 to	35.00 to 50.00	25.00 to 40.00

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Dracaena terminalis from bench, fine \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

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FICUS.

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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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GALAX.

H. M. Robinson & Co., 8-11 Province St., Boston.
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Michigan Cut Flower Co., Detroit.
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C. W. Caldwell, Mgr., Galax, Va.
Galax Leaves.
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N. F. McCarthy & Co., 84 Hawley St., Boston.
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GERANIUMS.

A. M. Herr, Lancaster, Pa.

GLADIOLI.

Arthur Cowee, Meadowvale Farm, Berlin, N. Y.
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GLASS.

Boston Plate & Window Glass Co., Boston.
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GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square, New York.
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Hitchings & Co., 1170 Broadway, New York.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Montager Co., 117 East Blackhawk St., Chicago, Ill.
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Weathered Co., Box 780, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston, Mass.
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The Kervau Co., 20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 and 40 Miami Ave., Detroit, Mich., Wm. Dlinger, Mgr.
Fancy Ferns.
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E. A. Beaven, Evergreen, Ala.
Fadeless Sheet Moss.
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N. F. McCarthy & Co., 84 Hawley St., Boston.
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HARDY PERENNIALS.

M. H. Walsh, Woods Hole, Mass.
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Eastern Nurseries, Jamaica Plain, Mass.
Herbaceous Plants.

HEATING APPARATUS.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square, New York.
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Hitchings & Co., 1170 Broadway, New York.
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John A. Scollay, 73 & 75 Myrtle Ave., Brooklyn, N. Y.
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Gurney Heater Mfg. Co., 188-200 Franklin St., Cor. Pearl, Boston, Mass.
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Kroeschell Bros., 35 Erie St., Chicago.
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HOLLY: HOLLY WREATHS.

H. Austin, Felton, Del.
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HOT WATER CIRCULATOR.

Holly-Castle Co., 170 Summer St., Boston.
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HORICUM.

Hammond's P. & S. S. Works, Flakkill-on-Hudson, N. Y.
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HOT-BED SASH.

The A. T. Stearns Lumber Co., Neponset, Mass.
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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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JAPANESE PLANTS.

Yokohama Nurseries, 31 Barclay St., N. Y.
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KENTIAS.

Godfrey Aschmann, 1012 Ontario St., Philadelphia.
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A. Lenthy & Co., Roslindale, Mass.
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LEADING RETAIL FLORISTS.

Alex. McConnell, New York.
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Thomas Young, Jr., New York.
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Fred C. Weber, 4326 Olive St., St. Louis, Mo.
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J. Breitmeyer's Sons, Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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Young & Nugent, 42 W. 28 St., New York
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled
Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Av. & 31st St., Chicago.
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MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co., 911 Chemical Bldg., St. Louis, Mo.
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NICO-FUME.

Ky. Tobacco Product Co., Louisville, Ky.
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NICOTEN APHIS PUNK.

Neotline Mfg. Co., St. Louis, Mo.

NURSERY STOCK.

John Waterer & Sons, Ltd., American Nursery, Bagshot, England.
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Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.
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ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Jullus Roehrs Co., Rutherford, N. J.
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Carrillo & Baldwin, Secaucus, N. J.
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A. Held, 11-19 William St., New York.
Orchids for Spring Delivery.
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PALMS.

A. Lenthy & Co., Roslindale, Mass.
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PATENTS.

Siggers & Siggers, Washington, D. C.
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PEONIES.

Edward Swayne, West Chester, Pa.
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Fine collection of Best Peonies. Complete Peony and Plox Manuals, 25 cents each. C. S. Harrison's Select Nursery, York, Nebr.

POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp. \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

PRIMULAS.

Baudisch & Co., Union Hill, N. J.
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PRUNING SHEARS.

Rhodes Mfg. Co., Grand Rapids, Mich.
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RHODODENDRONS.

John Waterer & Sons, Ltd., American Nursery, Bagshot, Eng.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
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E. H. Pye, Upper Nyack, N. Y.
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Benj. Connell, West Grove, Pa.
Crimson Ramblers.
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Bassett & Washburn, Hinsdale, Ill.
Rooted Cuttings of Kaiserlin, Pres. Carnot, La Detroit.
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Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1/4-in. pot plants, extra well rooted, \$4 per 100, \$30 per M. Orders booked for delivery now or any time up to the late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

SEEDS.

T. J. Grey & Co., 32 So. Market St.
Boston, Mass.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co.,
33 Barclay St., New York.
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A. T. Boddington, 342 W. 14th St., N. Y.
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H. F. Michell Co., 1017 Market St.
Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
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James Vick's Sons, Rochester, N. Y.
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W. W. Rawson & Co., 5 Union St., Boston.
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Hjalmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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G. C. Watson, Dobson Bldg., Phila.
Grass Seeds.
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H. E. Fiske Seed Co.,
12 and 13 Faneuil Hall Sq., Boston.
Rickards Bros., 37 East 19th St., New York.
Giant Cyclamen Seeds.
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Johnson Seed Co., 217 Market Street,
Philadelphia.
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Conrad Appel, Darmstadt, Germany, Estab. 1789. High Grade Grass, Clover, and Tree Seeds.

Rennle & Thomson, 135-37 Washington St.,
Providence, R. I.

SHEEP MANURE.

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Wizard Brand.
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SHEET MOSS.

E. A. Beaven, Evergreen, Ala.
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WILD SMILAX.

E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

SPIRAEA.

J. M. Thorburn & Co., New York.
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STEAM TRAP.

E. Hippard, Youngstown, O.
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TOMATO SEEDS.

Wm. Sim, Cliftondale, Mass.
Comet Tomato.
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Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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Weathered Co., 46 and 48 Marlon St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.
The Chicago Lifter.

VIOLETS.

H. R. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

WHOLESALE FLORISTS.**Boston.**

N. F. McCarthy & Co., 34 Hawley St.,
Boston.
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H. M. Robinson & Co., 15 Province St.,
Boston.
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George A. Sutherland Co., 34 Hawley St.,
Boston.
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Welch Bros., 226 Devonshire St., Boston.
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Buffalo.

Wm. F. Kasting, 383-87 Ellicott St., Buf-
falo, N. Y.
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Chicago.

J. A. Budlong, 37 Randolph St., Chicago.
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Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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A. L. Randall Co., 19-21 Randolph St.,
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E. F. Winterson Co., 45-49 Wabash Ave.,
Chicago.
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Pacthman Bros. Co., 35 Randolph St.,
Chicago.
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Detroit.

Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Dilger, mgr.
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New York.

J. K. Allen, 106 W. 28th St., New York.
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Wm. Stuart Allen Co., 53 W. 28th St.,
New York.
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C. W. Eberman, 53 W. 30th St., New York.
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J. S. Fenrich, 110 W. 28th St., New York.
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Ford Bros., 48 West 28th St., New York
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 West 28th St.
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E. C. Horan, 55 West 28th St., New York.
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Phillip F. Kessler, 55 W. 26th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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Frank Millang, 55-57 W. 26th St., New
York.
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John I. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Tresendly & Schenck, 44 W. 28th St., New
York.
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Hicks & Crawbuck, Inc., 76 and 78 Court
St., Brooklyn, N. Y.
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A. L. Young & Co., 54 W. 28th St., N. Y.
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John Young, 51 W. 28th St., New York.
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Philadelphia.

W. E. McKissick, 1221 Filbert St., Phila-
delphia, Pa.
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Leo Niessen Co., 1217 Arch St., Phila-
delphia, Pa.
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The S. S. Pennock-Meehan Co., 1608-18
Ludlow St., Philadelphia, Pa.
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Edward Reid, 1526 Ranstead St., Philadel-
phia, Pa.
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Pittsburg.

J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.
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Pittsburg Florists' Exchange, 228 Diamond
St., Pittsburg, Pa.
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New Offers in This Issue.**ADIANTUM PEDATUM; YELLOW
CALLA.**

A. Mitting, Santa Cruz, Cal.
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Godfrey Aschmann, 1012 Ontario St., Phila.
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**ARTIFICIAL POINSETTIAS;
CHRISTMAS BELLS, HOLLY.**

N. F. McCarthy & Co., Boston.
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ASPARGUS PL. NANUS.

E. G. Blaney, 163 Burrill St., Swampscott,
Mass.
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CANADA HARDWOOD ASHES.

John Joynt, Lucknow, Ont., Can.
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**CARNATION IMPERIAL AND PINK
IMPERIAL.**

A. J. Guttman, 43 W. 28th St., New York.
John E. Haines, Bethlehem, Pa.
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CARNATION JOHN E. HAINES.

John E. Haines, Bethlehem, Pa.
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**CARNATION ROSE PINK EN-
CHANTRESS.**

S. S. Skidelsky, 824 N. 24th St., Phila.
E. Schroeter, Detroit, Mich.
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CARNATIONS ROOTED CUTTINGS.

H. A. Stevens Co., Dedham, Mass.
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Tobacco Paper "NICO-FUME" LIQUID

IS THE
**STRONGEST,
BEST PACKED,
EASIEST APPLIED.**

**Furnishes the
Most Nicotine for the Money!**

**By far the
CHEAPEST.**

24 sheets.....	\$ 0.75
144 sheets.....	3.50
288 sheets.....	6.50
1728 sheets.....	35.10

JUST NOTE PRICES!

Pint.....	\$ 1.50
1/2 Gallon.....	5.50
Gallon.....	10.50
5 Gallons.....	47.25

... Manufactured by ...
THE KENTUCKY TOBACCO PRODUCT CO., **Louisville, Ky.**

New Offers in this Issue—Continued.

CARNATION VICTORY.

Guttman & Weber, 43 W. 28th St., N. Y.
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CHRISTMAS SUPPLIES.

J. Stern Co., 125 No. 10th St., Phila., Pa.
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CHRYSANTHEMUM NOVELTIES.

Charles H. Totty, Madison, N. J.
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DAHLIAS.

Adams Supply Co., Lowell, Mass.
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**FANCY BASKETS, JARDINIERS,
POT COVERS, BELLS.**

H. Bayersdorfer & Co., 1129 Arch St.,
Philadelphia.
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**FICUS PANDURATA; CHRISTMAS
PLANTS.**

Robert Craig Co., 49th and Market Sts.,
Phila.
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FIELD GROWN ROSES.

Wm. K. Nelson, Augusta, Ga.
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**FIELD GROWN ROSES; HARDY
SHRUBS.**

P. J. Berekmans Co., Augusta, Ga.
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Edward Higgins, 1 W. 28th St., N. Y.
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W. H. Donohue, 2 W. 29th St., New York.
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FLOWERS BY TELEGRAPH.

The Rosary Flower Co., 24 E. 34th St.,
New York.
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FLOWERS BY TELEGRAPH.

Jas. Welr's Sons, 324 Fulton St., Brooklyn,
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FLOWERS BY TELEGRAPH.

Julius A. Zinn, 2 Beacon St., Boston.
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FLOWERS BY TELEGRAPH.

Thos. F. Galvin, 124 Tremont St., Boston.
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FLOWERS BY TELEGRAPH.

Henry Penn, 43 Bromfield St., Boston.
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FLOWERS BY TELEGRAPH.

J. Newman & Sons, 24 Tremont St., Boston.
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FLOWERS BY TELEGRAPH.

Houghton & Clark, 396 Boylston St.,
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Wm. Hagenmann, 55 Dey St., New York.
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**FORCING ROOTS, PALMS, AZA-
LEAS AND POT GROWN
SHRUBS.**

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H. A. Stoothoff Co., 116 West St., N. Y.
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GALAX, HOLLY, FERNS, ETC.

N. Lecakes & Co., 53 W. 28th St., N. Y.
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**GRAFTED H. P. ROSES; BARGAIN
SALE.**

Wm. Elliott & Sons, 201 Fulton St., N. Y.
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**GRAFTED ROSES, BRIDE, 'MAID,
MORGAN, LIBERTY.**

R. T. McGorum, Natick, Mass.
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GREENHOUSE HEATING.

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HOLIDAY FLOWER SHIPMENTS.

Ford Brothers, 48 W. 28th St., New York.
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HOLIDAY FLOWER SHIPMENTS.

Young & Nugent, 42 W. 28th St., N. Y.
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HOLIDAY FLOWER SHIPMENTS.

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John I. Raynor, 49 W. 28th St., New York.
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Phil. F. Kossler, 55 W. 26th St., N. Y.
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HOLIDAY FLOWER SHIPMENTS.

Leo Niessen Co., 1217 Arch St., Phila.
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HOLIDAY FLOWER SHIPMENTS.

Traendly & Schenk, 44 W. 28th St., N. Y.
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HOLLY, BOXWOOD SPRAYS.

H. M. Robinson & Co., 11 & 15 Province
St., Boston.
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MANETTI ROSE STOCK.

Thos. Meehan & Co., Inc., Dreshertown, Pa.
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NORFOLK ISLAND PINES.

H. A. Dreer, 714 Chestnut St., Phila.
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**ORCHIDS AND HOLIDAY FLOWER
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James McManus, 42 W. 28th St., N. Y.
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**PALMS, FERNS AND DECORATIVE
PLANTS.**

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PLANT POTS AND PEDESTALS.

Jones, McDuffee & Stratton Co., 33 Frank-
lin St., Boston.
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POT HANDLE AND HANGER.

W. C. Krick, 1164-66 Greenc Ave., Brook-
lyn, N. Y.
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RETAIL FLORIST.

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Paul Niehoff, Lehigh, Pa.
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MISTLETOE.**

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F. R. Pierson Co., Tarrytown, N. Y.
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VERBENA SEED; SALVIA.

H. F. Mitchell Co., Philadelphia.
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BUY CHEAP

FOR WEEK BEGINNING DEC. 10 AND ENDING DEC. 15 WE WILL SELL, CASH WITH ORDER

2 Cases APHIS PUNK 2 Stones No. 18 Gaiv. Stringing wire	} For \$12.50	288 Sheets NICO-FUME 2 Stones No. 18 Gaiv. Stringing wire	} For \$6.80
2 Cases APHIS PUNK 200 Gaiv. Wire Stakes, No. 8 wire 4 ft. long	} For \$13.50	288 Sheets NICO-FUME 200 Gaiv. Wire Stakes, No. 8 wire 4 ft. long	} For \$7.80
2 Cases APHIS PUNK 2 Doz. No. 2 Fibre Vases, 4½ in. dia., 9 in. deep	} For \$17.80	288 Sheets NICO-FUME 2 Doz. No. 2 Fibre Vases, 4½ in. dia., 9 in. deep	} For \$12.00
2 Cases APHIS PUNK 2 Doz. No. 11 Fibre Vases, 5 in. dia., 18 in. deep	} For \$19.70	288 Sheets NICO-FUME 2 Doz. No. 11 Fibre Vases, 5 in. dia., 18 in. deep	} For \$14.00

You can cut any of the combinations in half for half the money or double them for double the money.

WE WILL INCLUDE **HASCO** FOR \$1.10 EXTRA TO ANY ONE PINT OF OF THE COMBINATIONS
LIQUID NICOTINE

Hasco Liquid Nicotine is 15 Per Cent Stronger Than Any Other Make

For Vaporising or Spraying It Has No Equal. It costs regularly PINTS \$1.35, HALF GALLON \$5.25, ONE GALLON \$10.00

THE H. A. STOOHOFF CO., 116 West St., NEW YORK

WANTS, FOR SALE, ETC.
 Advertisements in this column one cent a word. Initials count as words. Cash with order.

FLORISTS' WAGONS FOR SALE
 Three florists' open wagons, three florists' top wagons and three sets of harnesses. Can be seen at 1 West 28 St., New York.
EDWARD HIGGINS.

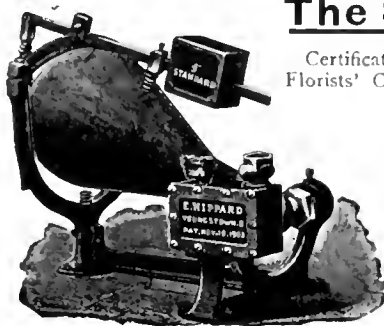
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Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

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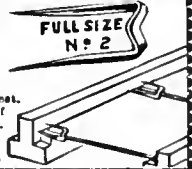
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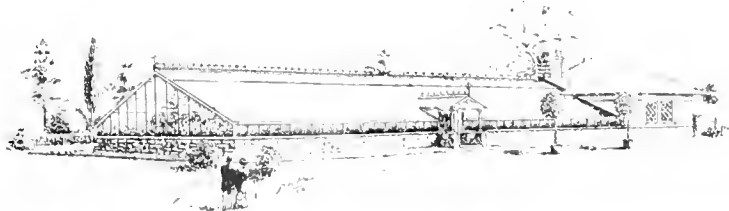
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 No. 1 will fit from 2 to 5-inch pots 30c.
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By mail 10c. extra per doz. Sample pair 10c., postpaid.

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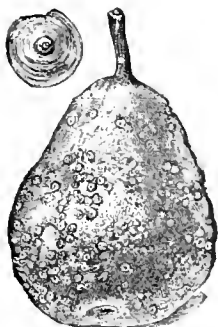
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"HORICUM" A Scale Killer and Fungicide

A preparation for the destruction of the "SAN JOSE SCALE"; carefully prepared and put up in packages for general use.

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ABOUT "HORICUM"

Glenside, Pa., March 31, 1906.

Hammond's Slug Shot Works, Fishkill-on-Hudson, N. Y.

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Yours respectfully, H. J. HINDS.

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Kills San Jose,

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Packed in small crates, easy to handle.

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1500 2 1/2 in. pots	\$4.88	120 7 in. pots	\$4.20
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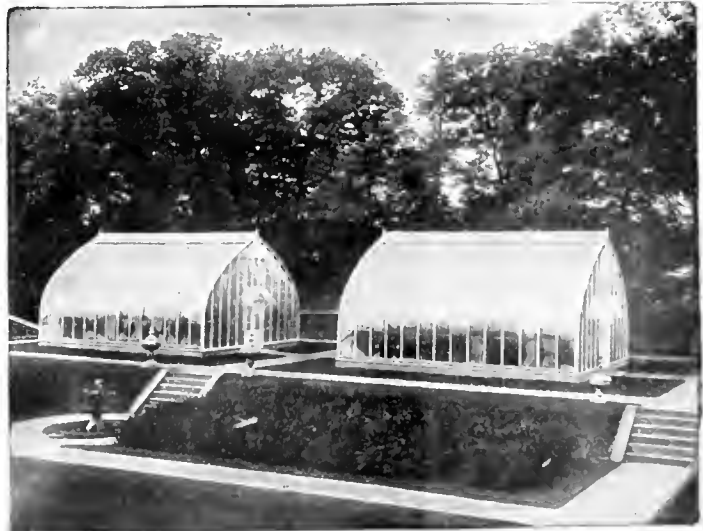
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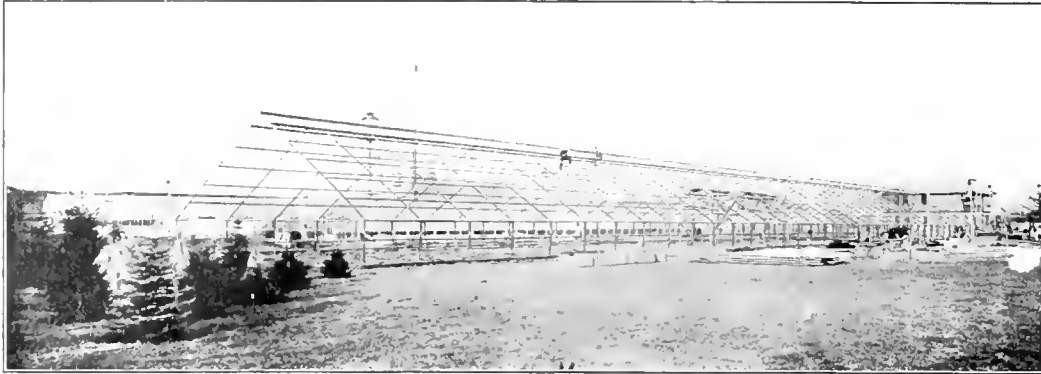
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THE IRON FRAME HOUSE

AND A LITTLE SIDE TALK ON WIDE HOUSES



HERE is one of our iron frames being erected for a house 46 feet wide and 300 feet long. You can see now what we mean by self-sustaining—the force of the argument we have been advancing on its being entirely independent of any wooden part for its support. Seems like a light, airy sort of frame work for so wide a house but it's as rigid and solid as a rock when completed. This man has tried about all sorts of construction and various width houses and now declares the wide house to be the most economical to both heat and work—he believes it will save him 20% in fuel. Then there's the matter of sudden changes, all that mass of air is acting as a fortification or insulation, and by the same token the dangers of chill in ventilating are reduced—the air is warm before reaching the plants. We believe thoroughly in the wide house because it is actually cheaper to erect than ridge and furrow houses covering same space—we know it gives to the grower the highest possible value. We go thoroughly into this iron frame proposition and the question of wide houses in our Iron Frame Circular—send for it. Lord & Burnham Co., Greenhouse Designers and Manufacturers, 1133 Broadway, cor. 26th Street, New York. Boston Branch: 819 Tremont Building.

HORTICULTURE

Vol. IV.

DECEMBER 15, 1906

No. 24



CHARLES H. TOTTY,
President elect, New York Florists' Club

*Devoted to the
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LANDSCAPE GARDENER
and
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(*Nephrolepis Piersoni Elegantissima*)

make one of the finest plants for a holiday gift that we know of. We sell large quantities of



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We can offer fine selected specimens in all sizes, from medium sized plants in 6-inch pans up to immense elegant specimens in 16-inch pans, suiting all purses and all classes of trade.

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Ready for delivery about December 1st
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Beautiful New Pink Rose

AUROKA

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VINCA, mixed, (ro-e white with red eye, pure white) 2 1/2 in. pots, \$2.00 per 100
PRIMULA obov. gr. fl., mixed, 2 1/2 in. 2.50 per 100
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Fine Specimens in 5-inch pots, \$1 each;
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IN WHITES—MISS CLAY FRICK, the white sport of Wm. Duckham, winner of the Frick prize at Chicago. The best new variety of the year.

Mrs A. T. Miller, Moneymaker, Kathleen Stoop.

IN PINKS—Miss Mariam Hankey, Mrs. Walter Jenks, etc.

IN YELLOW—Mary Godfrey, Mrs. Geo. Hunt, Norman Davis, Buttercup, etc.

Also J. W. Moreman, Mrs. Henry Barnes, W. J. Crossley, and many others shown at the different exhibitions.

I offer young stock for delivery early in the new year. 50 new varieties of singles, the latest craze. Send for my complete list issued December 1.

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 Red Riding Hood (Scarlet) \$12.00 per 100 \$100.00 per 1000 Aristocrat (Bright Cerise) \$12.00 per 100 \$100.00 per 1000
 White Perfection 6.00 " " 50.00 " " Rose Pink Enchantress 7.00 " " 60.00 " "

AND MANY OTHERS, SEND FOR LIST.

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Early—George S. Kalb, Polly Rose, Willowbrook.

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Early—Glory of the Pacific.

Mid-Season—Pink Ivory, J. K. Shaw, Adela, Mrs. Perrin, Ethelyn, A. J. Balfour, Wm. H. Duckham, Dr. Enguehard, Marlon Newell.

Guaranteed to be strong, healthy plants, \$1.00 per doz., \$6.00 per 100.

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Late—Maud Dean, Lavender Queen, The Harriott.

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Red Chief—Bright scarlet—early and very productive. \$12.00 per 100; \$100.00 per 1000. Average 3 in. flower. A leader in every respect.

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Pink Lawson, Variegated Lawson, White Lawson, Mrs. T. W. Lawson, Harry Fenn, Manly, Boston Market, Fair Maid, Enchantress.

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The Leading Scarlet

brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass. All shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted, healthy cuttings leave the place. Rooted cuttings ready Dec. 15, 1906. Price, \$6.00 per 100; \$50 per 1000.

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COLOR—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most Pinks, the brightest sun does not injure the color. **SIZE**—3 to 4 inches in diameter when established. **ODOR**—Pleasing, but not strong. **STEMS**—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. **HABIT, etc.**—A very quick, a tive grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. **PRODUCTIVENESS**—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever known. Stock Limited. Delivery January 5th to 10th and later.

Price \$12.00 per 100, \$100.00 per 1000

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NORFOLK ISLAND PINES



Araucaria Excelsa

4 inch pots, 5 to 6 inches high, 2 tiers.....	40c. each
6 " " 12 to 14 " " 3 "	75c. "
6 " " 16 to 18 " " 3 to 4 tiers.....	\$1.00 "
6 " " 18 to 20 " " 4 "	1.25 "
7 " " 20 to 22 " " 4 to 5 "	1.50 "

Araucaria Excelsa Glauca

6 inch pots, 13 to 15 inches high, 3 tiers	\$1.25 each
7 " " 22 to 24 " " 4 to 5 tiers.....	2.00 "

Araucaria Robusta Compacta

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

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4 inch pots.....	\$5.00 per dozen, \$40.00 per 100
5 " "	9.00 " " 70.00 " "
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Nephrolepis Scotti. Dwarf, perfect bushy specimens, as fine as can be produced—6 inch pots at 50c. each.

Nephrolepis Whitmani. The finest of all the Ostrich Plume varieties. Well furnished, compact plants, in 8 inch pans, \$2.00 each.

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Mixed Ferns for Dishes. A good assortment of useful varieties.

2 1/4 inch pots	\$3.50 per 100; \$30.00 per 1000
3 " "	6.00 " " 50.00 " "

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A "BREAD AND BUTTER"
CARNATION

Cutting one third more than Fair Maid now in the same house. Tested four years.

Debutante

is the name. You can't find a better carnation. Rooted Cuttings ready for delivery after January 1, 1907.

\$10.00 per 100. \$95.00 per 1000.

All Clean Stock. Order Now.

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Adiantum Pedatum grows its fronds 24 inches high, with 5 branches on a stiff stem. No better adiantum grown for cutting or as a pot plant. Strong 5-inch pots, \$10.00 per 100. Cash, ex. prepaid. Try 25 and you will want more.

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A. MITTING, 17-23 KENNAN STREET, SANTA CRUZ, CAL.

	100	1000
RICHMOND ROSE 2 1/4 in.	\$11.00	\$100.00
KAISERIN " "	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
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\$6.00 to \$10.00 per 100

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HARDY GARDEN ROSES

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 Successors to L. K. Peacock, Inc.
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Crataegus punctata



Our American forests are rich in hawthorns, and in recent years they have increased in the number of species, at an enormous rate.

We have heard and read quite a good deal about *Crataegus cordata*, *C. coccinea*, *C. tomentosa* and *C. Crusgalli*, praising them, as they well deserve, as excellent ornamental shrubs. Little has been said about the subject of this note as to its meritorious attributes. When this plant is in bloom it will compare favorably with any *crataegus* that is in cultivation.

Probably the reason why we have not seen more of this species is because its treatment when in a young state has not been understood. To make a shapely plant out of this shrub, it requires in its early years, to be well cut back each winter until it gets a good foundation. After the foundation is obtained—that is, a low bushy habit,—then let it grow naturally.

The writer of this note took the above picture late last May and at that time the whole plant was perfectly covered with beautiful white flowers. The foliage does not take on a brilliant color in the fall, but I have not observed any rust or fungus on the leaves. The fruit is of a greenish color and is produced abundantly, but it is not showy as in some other species of *crataegus*.

However, this hawthorn has another good quality which some of the species do not possess in that its stem and branches are clothed with a grayish white bark, almost the color of the bark of the American beech. This character makes it at this time stand out conspicuously in the landscape. The plant in our garden is about eighteen or twenty feet high and thirty feet in breadth.

It delights in a good strong rich soil and can be increased from the seeds which are produced plentifully in the fruits.

Nursery men ought to make a note of this shrub as some day there will be a big demand for it. The American Manuals of Botany tell us that it is found from Quebec to Ontario and Georgia.

Robert Seman

Chrysanthemum Notes

ITALIC CHRYSANTHEMUMS IN EUROPE

There are many of the younger generation of *chrysanthemum* growers in this country, who do not remember the introduction of the first hairy *chrysanthemum*, Mrs. Alphens Hardy, which appears to have now vanished altogether. I first saw it, if my memory serves me aright, at the Centenary Chrysanthemum Show at Ghent, Belgium, in November, 1889, where Mr. Manda staged some lovely blooms of it. This was followed by Louis Boehmer and shortly afterwards the French florists distributed quite a number of novelties in the new section.

Their popularity was short-lived in England. For one or two years there was an excellent collection shown at Southwark Park, in France, and also in Belgium. I have seen some very nice blooms in years gone by, for on the continent, owing to the brighter sky or some peculiarity of culture, they did better than here. Latterly, however, there has been a considerable falling off in the exhibiting of hairy *chrysanthemums* both in England and on the continent. A few, however, still crop up here and there. Hairy Wonder is without doubt the leading variety from every point of view, color, size, form and in hairy appearance. This season I have in my journeyings met with a few, some of which are quite new.

In case American growers are at all interested in this type a few notes may be serviceable. Leocadie Gentils, a pure pale yellow, is still grown and is a very good variety; that and Louis Boehmer being both on view this season in the London Parks. Esau, a pale rosy pink silky variety, smaller in size than the others, is still kept up. Piquemal de Rozeville, dull crimson, was shown at the Paris show. At Caen a very fine one, called Alexis Dessarps, of Japanese incurving form was staged by one of the exhibitors; it has pointed grooved petals, a pure self color, deep golden yellow.

CHRYSANTHEMUMS IN THE LONDON PARKS.

For some years past those of the London parks under the authority of the London County Council have held gratuitous *chrysanthemum* shows, which open about the middle of October and close towards the end of November. These shows are held in glass structures specially provided for the purpose and are largely visited by persons living in the locality, especially on fine Saturday and Sunday afternoons.

There is no uniformity either in the houses or in the arrangement of these displays, each superintendent having a different kind of house and setting up his collection of *chrysanthemums* in a way of his own. The varieties are numerous and by dint of a careful selection these exhibitions are prolonged over the whole *chrysanthemum* season, for as the earlier flowering varieties pass their best later ones are put in their place, and so for five or six weeks a continuous show is provided.

In some of the crowded districts surrounding some of the parks it is very interesting to note how keenly many of the poorer visitors are interested in the flowers. When the weather is fine there will be quite a huge crowd at the entrance to the show, and I have seen a long string of people three and four deep patiently waiting their turn at the entrance, which is generally at one end of the house, and the visitors passing through leave at the other end. It is not an uncommon thing for 6000 to 8000 to visit one of these County Council shows in one day.

Brockwell Park is right away in the south of the

great metropolis. This year a new provision in shape of a neat little span-roof house has been made in which to continue the collection. It is reached by crossing the old English garden, of which a few notes appeared about a year ago in the pages of HORTICULTURE, and which at the time of our visit in October was bright and full of color, our door chrysanthemums, dabbias and many other autumnal flowers being in full bloom.

The show chrysanthemums in the house are arranged in two sloping banks, all of exhibition size, with a middle path to permit of ingress and egress. There are 700 plants grown in 150 varieties, and a capital display is made. For decorative effect a large number of small flowered varieties are grown freely flowered, while the collection properly so called are only three and four blooms on a plant. The Japanese here, as elsewhere, predominate, and in whites comprise fine examples of the most popular new sorts. Purple and pink shades are represented in numerous forms and size, from the colossal *Australie* down to the pretty little miniature pompon *Mlle. Elise Dordon*, a perfect gem and a charming contrast to its bigger companions. In bronzy or crimson shades we would mention *Baron Hirsch*, *Lord Alverstone*, *S. T. Wright*, *Eastman Belle*, *Mafeking Hero*.

Our next call was at Southwark Park, situated down in the southeast corner of London, in a crowded neighborhood of artisans and workers, by the river side. Here there is always an interesting display arranged in a T shaped house. Decorative varieties are also used here, being intermingled with the larger specimens. A good representative collection of incurves also finds a place. The Japanese here are very numerous and the collection consists of 3600 plants in about 310 varieties.

Far away to the northeast is Victoria Park, and long before we reach the glass house where the collection is staged we see beds of outdoor varieties that do much to enliven the park at this dull season of the year. *Soleil d'Octobre* is grown here out of doors to a great extent and amply repays the trouble of planting. Early flowering pompons and Japanese are also conspicuous objects in the beds and borders. The house here is 100 feet by 25. The plants are arranged as at Brockwell, but with this difference that in the rear of each sloping bank and at intervals in the group we see grandly flowered plants of the single variety *Ladysmith*, a pretty rosy pink, *Ryecroft Glory*, the single *Mary Anderson* and others. Anemone flowered varieties here are quite common, so, too, are incurves, and the Japanese comprise most of the popular sorts.

Making our way due north there are two parks—Waterton Park at Highgate, one of the prettiest places of the kind in London, where there is always an interesting collection during the season, and Finsbury Park, which has really two shows. In the ordinary house a fine, bright, clean looking lot of blooms are staged in a winding, undulating sloping bank. Space will not permit of an enumeration of the many excellent varieties shown in the front row, of which there is a goodly number of pretty little plants of small flowered varieties about a foot high. A few steps away is the Conservatory, a veritable winter garden, in which palms, ferns, indiarubber plants, araucarias, etc., are arranged, with quite a series of groups of chrysanthemums. Here and there we find a mass of singles. The big blooms set up at intervals include many that we saw in the other house, such as *Capt. Percy Scott*, *The Cossack* (a variety probably 10 years old), *Mrs. Greenfield*, *Charles Long-*

ley, *Princess Henry*, *J. H. Silsbury*, *Mr. W. Knox*, which has been grand everywhere in England and France this year, *Mrs. E. Mileham* and *Commandant Blusset*.

Our last visit was to Battersea Park, away down in the southwest corner. This is a much frequented show, nearly 40,000 persons having visited it in 26 days, which unfortunately included two very wet Sundays. The superintendent here lays himself out to obtain the greatest artistic effect possible, and certainly succeeds. The ends, part of the roof and sides of the span-roofed house are simply clothed with a mass of color obtained by training and spreading the branches of many freely flowered plants over as large a surface as possible. The specimen blooms are arranged in two sloping banks with a winding path from the middle. Several of the once popular hairy varieties are grown. Anemone varieties and incurves are also interspersed, the remainder of the collection being examples of grandly developed Japanese of every conceivable size and color. A few names may help the reader—the curious green variety *Mme. Ed. Roger* is in quantity and attracts attention here as at most of the parks. *W. R. Church* is big and solid, *Bessie Godfrey*, *Mrs. H. Emmerton*, *Mme. Waldeck-Rousseau*, *Comte Lurani*, *Wm. Seward*, *Mrs. W. Popham*, *Mrs. Coombs*, *Mrs. Barkley*, *F. S. Vallis*, *Good Gracious*, *Col. W. B. Smith*, *Australie*, *Mme. Paolo Radaelli* are all in full form.

Charman Payne

What are Points?

In "Rules of the Horticultural Society of Chicago, 1906," Rule 22 is as follows: "All judging shall be by such scale or scales of points as shall be adopted by the Society. No certificate or first premium shall be awarded to any exhibit scoring less than 85 points; no second premium to any exhibit scoring less than 75 points, and no third premium to any exhibit scoring less than 65 points."

Now, what I want to know is whether the same kind of points are used alike at Chicago, Boston and Philadelphia, or do they in each case make their own points as blunt or as sharp as they like?

To illustrate: If the chrysanthemum *Mutual Friend*, 5 1/2 feet in diameter, with a total of 300 blooms, as shown in HORTICULTURE of Dec. 1 and grown by James Garthly (long may he live) had been shown in competition with those exhibited at Chicago last month (and there is no reason why it or one approximating it might not have been), would the judges have been content to give this as high as 98 points only in comparison with its competitors so as to bring them within striking distance—there was not a plant that would have scored 50 against it, consequently if points counted, no premium would have been awarded—or, would the judges have pointed up the Garthly plant to 162, so as to bring the others into the zone where 85 points were possible? If so what then would have become of the surplus 62 points? This is what I am wondering about.

John Thorpe

President-elect Totty

(See 1st page.)

C. H. Totty, the new elected president of the New York Florists' Club, was born in Shropshire, England, in 1813, and is therefore being congratulated upon being elected as president of such a club as the New York Florists'. Few men have won this honor so early in life.

After leaving school Mr. Totty went first to the Albrighton Gardens, serving three years, after which time he moved to The sons of Chester for nearly two years, thence to Morris Green near Liverpool for one year, thereby fitting himself with a thorough knowledge of his work and able to go out into the world and hold his own.

Landing in this country in 1893 his first position was with Mrs. F. F. Thompson of Canandaigua, N. Y., for two years, after which we find him at Florham Farms, Madison, N. J., as foreman where perhaps the name Totty became a household word, for the chrysanthemums grown here have never been excelled and rarely equalled. While the chrysanthemum may have been his best, fruit, orchids and carnations were equally well grown. Eight years later Mr. Totty started in business for himself about three and a half years ago, since which time he has built up a most successful business, few men in fact can hope to reach the same position in commercial horticulture in so short a time.

Whatever Mr. Totty takes in hand is done and done well and we look to him for a most successful year in the New York Florists' Club, which is honored most by placing him at the head.

W. H. Adsett.

British Horticulture

BULBS BY THE MILLION

Wisbech, in Cambridge-shire, is a noted fruit growing centre, besides being the headquarters of several well known firms of nurserymen. Recently I visited the nurseries in that district of Mr. J. W. Cross, who is one of the largest bulb growers in the country. In a chat with Mr. Cross the question of the possibility of bulb-growing being over done in England was discussed. "I am not upset by any likelihood of that kind," Mr. Cross stated, "for it is a well known fact that many of

the Dutch growers are not so successful as we are in this, for from the numerous inquiries to know matters as to the best methods of bulb-growing, it is undoubtedly an increasing interest in this branch of horticulture.

DUTCH VS. ENGLISH BULBS

As to whether the English growers can successfully compete with the Dutch cultivators, Mr. Cross said, "I maintain that in England we can produce as good bulbs as in Holland, and, in fact, in some instances we excel them. Some Dutch growers have been over here and they were surprised at the results obtained. The Dutch growers have the advantage of cheaper labor, but on the other hand they derive no revenue from the sale of blooms as we do in England." Continuing, Mr. Cross said, "It is sometimes asserted that it is not possible to successfully cultivate hyacinths in competition with the Dutch growers, but I have been able to show in my own nurseries that is a mistake. The English bulbs generally have more substance and produce a better result. Two of our bulbs will weigh as much as three of the Dutch ones of the same size. I have not the slightest fear of any competition from the Dutch as regards quality."

W. H. Adsett.

Our Way

to make our publication valuable to the advertising dealers in every branch of the profession is to provide such reading matter as will secure the attention and consideration of the thinking, progressive men who are buyers of first-class material and are able to pay for such.

If you have anything to offer to that class of buyers you can find no medium equal to HORTICULTURE for the purpose. Our advertising pages show business houses universally known as leaders in American horticultural enterprise, who have used these columns constantly for the past two years.

They Know Why!

Next week's issue will contain the first of a series of interesting articles on the Amaryllis by John Thorpe.

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the willing withdrawal of a duplicated carnation name by Messrs. Stevenson Bros., of Govanstown, Md. We hope Carnation Splendor will enjoy a career commensurate with its name.

About lapagerias

The instructive article on Lapagerias, by Edgar Elvin, in our issue of December 8, has been received with much favor by flower growers who take an interest in high class specialties. Many still remember that glorious mantel decoration by the late David Allan at the Massachusetts Horticultural Society's exhibition in connection with the S. A. F. convention in Boston sixteen years ago—probably the most beautiful mantel decoration ever seen in this country—and the charm lent thereto by the lovely pendant blooms of pink, white and "Nash Court" lapagerias. Any one growing these floral gems within reach of an affluent market can rely upon getting his own price for them.

The status of the single violet

Reports from various points concerning Thanksgiving week trade confirm the views expressed in these columns a year ago, that the single violet was destined soon to become an aggressive rival for the hitherto supreme Marie Louise. Already, indeed, it seems to have taken precedence in several markets, bringing a higher price and, we are very sure, giving much greater satisfaction to buyers, with its superior fragrance, longer stems and better keeping qualities. Growers should be grateful for this turn of the popular fancy for it opens the way for a resumption of violet growing in many quarters where the uncertain and crotchety behavior of the double-flowered varieties had made profitable culture of this popular flower an impossibility and compelled buyers to depend upon remote sources of supply. Because of the evanescence of the violet perfume the home market violet, when procurable, is bound to win out.

Financing the exhibition

The more we think it over the better we are impressed with the plan adopted by the Columbus Florists' Club for defraying a part of the expense of their chrysanthemum exhibition. The great direct and indirect value of such exhibitions is acknowledged by everybody but they cannot be made for nothing and, as the hard-working managers of such affairs well know, the securing of the wherewithal to pay premiums and other necessary expenses is the greatest problem they have to face. The plan adopted by the aforesaid club is simply to assess every competitor ten per cent. of the first prize in the class of his entry. In their recent show these entry fees amounted to one-half the prize money awarded. There is a distinct element of fairness in thus making the possible beneficiaries contribute each something and the sentiment of co-operation and joint responsibility is a good thing to be encouraged. If, to this trifling fee there should be added an additional forfeit for each "quitter" as advocated by Mr. Asmus in last week's issue of HORTICULTURE, perhaps some of our struggling young organizations would find their annual exhibitions considerably less of a burden.

Again we have a demonstration of the commendable spirit actuating the plant introducers and their willingness to follow the course established by the societies in the interests of a well-regulated nomenclature, in

AFTER ADJOURNMENT.

Didn't get round to picking up an adv. for the special number of HORTICULTURE? Too busy? Didn't it fill too late? Well, that's unfortunate, but—there is yet time and next week is your best chance because there is always new business for the advertiser who is first on the spot. Think it over and you'll conclude we're right.

We read in our English exchanges of a new invention called a "Tilting Plant Holder," described as an iron ring to hold a flower-pot, springing from a curved arm on a firm support, the holder is adjustable to any desired height or curve, and intended to aid in the satisfactory arrangement of pot-plants at exhibitions or in conservatories by enabling them to be fixed in almost any required position. A contrivance similar to this has been on sale by our florists' supply dealers for "lo, these many years."

If we may believe the newspaper accounts, the Agricultural Department at Washington has been deeply engrossed in the weighty responsibilities of selecting appropriate names for the various seedling chrysanthemums which it has been permitting the public to look at. Among the many more or less appropriate titles suggested by the friends of the puzzled Department were "Tammany" for a white bloom of great purity and "William Randolph Hearst" for a small yellow variety shaped much like a lemon. It is too bad to pile this great burden on top of all the free seed trouble but we are glad to see that the Department is doing its best to conscientiously discharge the great duty which has devolved upon it.

Oceans of comment on the Niagara question have flooded us the past week. One of the most temperate and thoughtful reviews of Secretary Taft's attitude appears in the Philadelphia Record of November 28th and sizes the matter up so judiciously that we reprint it below. In passing it is gratifying to record our high appreciation of the dignified attitude of J. Horace McFarland under the trying ordeal of the secretary's contempt.

POPULAR SENTIMENT AND NIAGARA FALLS.

Secretary Taft's admittedly impatient interruption of the argument of the president of the American Civic Association against the diversion of any additional volume of water by the power companies from Niagara Falls is an indication that "hysterics" are not peculiar to sentimentalist, but that hard-headed department chiefs may sometimes be afflicted in like manner.

The representative of the Engineer Corps of the army, who, under the instruction of the War Department, interrogated the power companies as to the quantity of water that would have to be withdrawn from the river above the Falls in order to assure the companies an adequate return on their investment is not to be criticized for performing his duty. President McFarland had no occasion for "feeling a little bit nervous" because the department had gone so deeply into the economic side of the question, that side as well as the sentimental aspect is to be considered. But when Secretary Taft remarked that "he could not see what popular sentiment had to do with the construction of an act of Congress," was he not himself just a little bit hysterical?

The act was passed in deference to a strong popular sentiment. Its prime purpose is the preservation of the scenic beauties of the Falls; and that purpose is several times expressed therein. It empowers

the Secretary of War to issue the permits for the diversion of any additional water to be exceeded 15,000 cubic feet per second, but the privileges of such companies are to be strictly confined to the main object of the law. The diversion must not be greater than the quantity stated, nor may the Secretary's permits go to the limit of the capacity of the Falls as a spectacle should be impaired thereby. If only 10,000 or 8,000 or 6,000 cubic feet per second can be diverted without marring the scenic effect, permits to withdraw larger quantities may not be granted. If this should involve an invasion of rights already acquired or the disturbance of "vested interests" it is more than probable that public opinion would favor the most liberal compensation of the parties dispossessed rather than permit any diminution of the spectacular grandeur of Niagara. So much has sentiment to do with the construction of the act.

TRADE VS. CIVIC IMPROVEMENT SOCIETY.

Editor of HORTICULTURE:

Dear Sir:—I beg to differ with Mr. Watson on the subject of Trade vs. Civic Improvement Societies. In your issue of December 1st he says the trade of florists' clubs can do little to help along the taste for ornamental gardening, but as individuals they should become members of the local civic improvement society. This is good advice and should be followed by everyone interested in more beautiful gardens for the people. But do not stop here. The members of the florists' clubs are generally well qualified, some more so than members of the civic improvement societies, to impart knowledge on the subject of ornamental gardening, and I feel sure (from the experience of the local club here) if the florists' clubs of the various cities will inaugurate a series of free illustrated lectures on the subject, the lecturer being a man well known as an authority on the subject, (and what florist club has not one or more such men amongst its members?) they will have a large and interested attendance. Most town and city governments will gladly provide suitable halls free of cost for such a purpose. Another line of action for the florists' clubs to enhance love for gardening, is to offer medals for plants or flowers raised by the school children. This is where the foundation should be laid; start with the child and you have learned the man. The results will not be apparent at first, but they are sure to come in time, by a greater love for plants, flowers, and more beautiful home surroundings.

In the spring of this year the Florists' Club of Washington, D. C., offered through the Board of Education a gold and a silver medal for the best garden surrounding the schools of the District of Columbia, the gardens to be cared for by the school children under instruction from the teachers. This created great rivalry amongst the schools and the children with very gratifying results to the florists' club, and no doubt of lasting benefit to the children, for they have learned to plant the seeds and care for the plants until they reached maturity.

Another line that is very much neglected by florists and gardeners of America in preparing schedules for flower shows, is, that the true ama-

teur of a flower show is not the quantity of plants, but the quality of the plants. It is better to have a few choice plants than a large quantity of inferior ones. The public is more interested in the quality of flowers and plants, than in the quantity. It is better to have a few choice plants, such as geraniums, rubber plants, palms and such plants that have been growing in the home, of the people for a stated period, advertising the same freely in the daily papers, very soon more interest would be taken in flowers and plants, and from house-plants and flowers it is an easy step to more beautiful gardens. It is time for our florists' clubs to take a broader view of this subject, and to launch out from the narrow confines of trade-bands into the broader and more useful lines of the horticultural societies. If the constitution will not permit of this widening, the sooner it is revised the better, so as to admit to membership all interested in growing plants, be he florist, gardener, or amateur; the better it will be for the club and the city where it is located.

PETER BISSET

NEWPORT NOTES.

Mr. Wm. B. Leeds has purchased Rough Point, the Newport estate of Fred W. Vanderbilt. This is one of the most desirable places in Newport. The work of laying out and planting the grounds was originally done under the supervision of the late Frederick Law Olmsted; since then Robert Hunnuck, who assumed the position of gardener there shortly after its purchase by Mr. Vanderbilt, has accomplished a great deal.

O. H. P. Belmont is having plans prepared for extensive alterations and improvements to his residence and grounds, which include the construction of an Italian garden and a new entrance road from Bellevue avenue. Frederick W. Kelsey of New York has been commissioned to plant a great number of willows on exposed places on the estate.

In the municipal election recently held in Newport there were numerous aspirants for office among the fraternity; on the whole they fared fairly well. Among those elected from different wards were Thomas and Joseph Gibson from the second, Patrick F. Reynolds from the fourth, James J. Sullivan and Dennis Leary from the solid fifth. Mr. Sullivan is gardener for Mrs. Ogden Goelet whose son, Robert Goelet, ran on the municipal association ticket for representative in the fourth ward. He did not get elected. Comment unnecessary.

Many readers of HORTICULTURE are exceedingly anxious for the appearance of the next issue to see what Robert McGorum will have to say in response to the outburst of George C. Watson. The common impression is that Mr. McGorum will have something very interesting to say to his friend Mr. Watson.

Any doubt which may have been entertained as to the carrying qualities of Adiantum podatum will be set at rest by the fact that a package of plants of this useful fern which A. Mitting is advertising in HORTICULTURE arrived at Dree's, Philadelphia, in good condition, after the trip across the continent from Santa Cruz, California.

NEWS OF THE CLUBS AND SOCIETIES

MINNESOTA STATE HORTICULTURAL SOCIETY.

This society held its annual meeting at the usual place, in the Audience Room of the First Unitarian Church, Minneapolis.

Wreathed in green and in a conspicuous place were the following names "In Memoriam": Amasa Stewart, O. M. Lord, R. H. L. Jewett, Jonathan Freeman, S. D. Hillman, R. J. Mendenhall, Wm. Oxford.

The first session opened with President Clarence Wedge in the chair; there was an organ solo, an opening song by I. N. Jayne and then Rev. C. S. Harrison of York, Neb., pronounced the invocation. President Wedge told us of a year of much progress and the reports that followed were proof of all he said. Next on the program was the first number, and Rev. C. S. Harrison delivered an address: "The Farmers' and Gardeners' Unused Capital." The speaker showed specimens of one-year tree growths and enlarged on the great possibilities for those who would simply use the materials that all land owners have; nor was this all that was said: in a natural way Rev. Harrison pictured the great moral lessons from all the manifold workings of nature—her recesses were filled with materials with which we all could work and create beauty—all that offends the eye must be banished; we must revel in the glories of this beautiful world. Next, Prof. Thos. Shaw, St. Anthony Park, read a carefully prepared paper in which he showed how farmers might grow their own fruit with but little effort and cost. "A Half Century in the Strawberry Field" was a paper then read by Geo. J. Kellogg, Lake Mills, Wis. Mr. Kellogg told of varieties that seemed most likely to be of need for the next few years, and in answer to questions gave some good hints on cultural methods.

The afternoon session opened with the question hour and any who cared for specific information were told to fire questions at A. K. Bush.

Some ten papers were read on nursery topics by appointed specialists. Benj. F. Hoyt, St. Paul, spoke of the "Art of Growing Pedigree Strawberry Plants"; this paper was very interesting, comprehensive, and told of the necessity of careful handling and selecting. After Mr. Hoyt had finished there was some argument on strawberries though the pedigree plants were favored.

E. M. Sherman of Charles City, Iowa, read an interesting paper relating to the growing of ornamental trees and shrubs, and what seemed best for this State were named.

State Entomologist, F. L. Washburn, gave some excellent suggestions as to how each locality could guard against new insects being admitted into the State. He is alert, wise and cheerful; he consented to be the State Mothball, said gypsy moth had no existence here and that we were free now from much that the east has and emphasized the need of keeping the State clean.

At the Wednesday morning session annual reports of the officers were read, and each were allowed two min-

utes in which to make oral statement as to features of special interest in connection with the substance of his report. Wednesday afternoon session, opened with lessons in cross-pollination for members of Plant Breeders' Auxiliary and any others interested. At 3 o'clock the Women's Auxiliary held its joint session; the ladies presented an unusually good program, including "Nature Study for Farm Children," "The Dietetic Value of Fruits," and Prof. Washburn gave a talk on "Insects Injurious to Horticulture and Their Parasites;" this talk was illustrated with lantern slides.

Thursday morning's session was given over to a Calendar Program for July and August; experienced growers told of the needs and best ways of working orchards in these months; the vegetable and flower garden were also considered. The reports of committees on seedling fruits and on awards on seedling apples with display of those sorts receiving highest awards were presented by the chairman of the committees. Annual election of officers then took place, and Prof. Samuel B. Green was elected president.

The Minnesota State Forestry Association—joint session, President Chas. M. Loring, opened with the annual greeting. Prof. Green gave a most vivid picture of conditions throughout the state, made it strong that there must be money appropriated for the various needs. There are 600,000 pine seedlings and no funds to cover expense of planting them.

Ex-Lieutenant Governor B. F. Nelson spoke about the needed legislation for protection of our forests around the head waters of the Mississippi; he advocates that strong measures be taken, and that the reserves may be well cared for; he forecasts a dry river bed if cutting is long continued.

At the Forestry joint session Judge Douglas spoke of game preservations. His suggestion was that instead of game wardens, there be appointed foresters who would not only look after the forest but the game also, for the two go hand-in-hand. Commercialism is the greatest foe to our game, for the world of commerce offers large sums for hides. Resolutions were adopted for a vigorous attempt to get the legislature to supply funds. "The German Orchard," illustrated with lantern slides, by Prof. Harry A. Huston of Chicago completed the day's program.

In the evening the annual society banquet was held. "Some sense and considerable nonsense with a good dinner thrown in" was promised and fulfilled. P. V. Collins of P. V. C. Publishing Co. was toastmaster. Grace was offered by Geo. J. Kellogg of Janesville, Wis. T. N. Jayne, a promising young lawyer of Minneapolis, rendered a solo. Roy D. Underwood responded to the toast "Some joy for every day—if we insist upon it," very well given. "My pleasure or 'what you will' in a suburban garden," G. A. Stockwell, Minneapolis. "An amateur horticulturist under the X-ray—his wife turns it on," Mrs. F. F. Farrar, White Bear. There was comedy in this. Recitations, Miss Fay Latham and R. A. Schultz. Address, "The nurserymen of the west—their enterprise

surpassed only by their modesty," Eugen Lear. "The joys of memory—these are the things that endure," C. S. Harrison, York, Neb. All had a good time—so they say.

Friday morning there were "many good things," the subject mostly about fruit. Friday afternoon's session was the last and best. J. M. Underwood of the Plant Breeders' Auxiliary gave an address. Prof. Bass gave an interesting reading about "Breeding for Hardiness." Chas. G. Patten, Charles City, Ia., and Prof. R. A. Emerson of Lincoln, Neb., also spoke along the same lines. Prof. Green gave a report of work done in plant breeding at State Experiment Station.

At 4 o'clock President Green was in the chair. There was a report of committee on obituaries and final resolutions. Then came the two minute speeches by members. These were terse, well mixed with wit, yet the general tone was pathetic for many had "gone before"; only a few of the first members remained; and their gray hairs and weathered features, foretold their near fate. President Green is a true master of ceremonies, and his closing remarks properly characterized the past. All agreed that it was the best meeting the society has ever had, all had been helped, and it's because that there is loyalty and good fellowship that enables Minnesota to boast of the largest horticultural society in America.

G. L. SKUTT.

VERMONT HORTICULTURISTS MEET.

The twelfth annual meeting of Vermont State Horticultural Society held at Burlington, December 5 and 6, proved to be one of the best in the history of the society. The attendance throughout the sessions, while not large, was comprised almost wholly of representative fruit growers, who evinced a very marked interest in the addresses of the speakers on the program.

The fruit exhibit was fully twice as large as any heretofore made by the society and in quality was fully up to the standard. The high color of the apples was a frequent subject of remark. A practical demonstration of the proper grading and packing of apples was given. The newly-elected officers for the ensuing year are as follows: President, T. L. Kinney, So. Hero, Vt.; secretary, Wm. Stuart, Burlington; treasurer, A. M. Vaughan, Randolph; auditor, L. H. Sheldon, Fair Haven. The appointment of the vice-president was left in the hands of the newly-elected president and treasurer. The following resolutions were presented and adopted: "That the society urge that some steps be taken by the State relative to the suppression and eradication of the San Jose scale within its borders.

In view of the fact that the Adams fund appreciably increases the income of the Vermont Agricultural Experiment Station we would suggest that a portion of it be applied in the pursuit of scientific investigations in horticulture. WM. STUART, Sec'y.

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PITTSBURGH AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

At the meeting of the club, December 4, there was a goodly display of pot plants in illustration of the subject of the meeting. "Christmas plants and how to present them to the public in the most attractive way." Geo. McRae showed *Primula obconica* and poinsettia; Thos. Jenkinson, exceptionally fine begonia *Glorie de Lorraine*, pink and white; H. S. Price, begonias and primulas Sutton's strain; Western Penitentiary, Walter James, gardener, begonias; Jno. Bader, begonias; Randolph & McClements, araucarias, *Ficus pandurata*, dracaenas, Phoenix Robelini; Blind Bros., Otahite oranges, ardisias, azaleas, poinsettias; some of their pots were advantageously covered with crepe paper; Phipps Conservatories, fine cyclamen; David Fraser cut blooms of cyclamen and *Primula obconica*; John E. Haines, Imperial and Pink Imperial carnations; B. K. & B. Floral Co., Richmond, Ind., carnations Purity and Superior, the former a very attractive white with full center, the latter a bright pink.

Mr. W. A. Clarke in his address said that the great bulk of plants used in Pittsburgh was shipped in from other points and it would seem that the money thus expended could be kept at home by the growers if they would put good plants on the market. The most taking plant for Christmas was the poinsettia; the most attractive way of arrangement, in baskets with pans. A grower of poor stuff should be told his stock is poor; too much salve is given to growers; if they grew one-third as

much and that thoroughly good it would be better. His remarks made a great impression. B. L. Elliott, who has been in California for a year, spoke on his impressions of that state. The January meeting will be a smoker.

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting and annual election of this society took place on December 7th. Final reports in regard to the recent fall show were made by the secretary and treasurer, showing a deficit of \$125, which will have to be paid from the treasury or be met by one or more of the society's patrons. The election resulted in the following officers for the ensuing year: President, W. J. Benuett, gardener for A. C. Van Gaasbeck; vice-president, Arthur T. Caparn, superintendent for estate of Stewart Hartshorn, Esq.; secretary, Henry Halbig, gardener for George Graves; treasurer, William Rea, gardener for S. & A. Colgate. The annual competition for the monthly floral display was closed, and the winners' names hitherto designated by numbers, announced with their averages: General—first, Peter Duff with an average of 92+; second, William Read, 88+. Special Orchid—first, Arthur Bodwell, 90+; second, Lager and Hurrell, 92 for only 10 months. Special for gardeners without glass—Arthur T. Caparn, 85+. Attention was called by the secretary to the fact of Lager and Hurrell having entered after the competition was under way, the average for ten months only running but fifteen points behind their competitor.

J. B. DAVIS.

ST. LOUIS HORTICULTURAL SOCIETY.

The executive committee of the St. Louis Horticultural Society held their regular monthly meeting at the residence of Mr. Fred H. Meinhardt. The committee in session adopted application forms, and an attractive folder to be distributed at large which contains extracts from the by-laws of the society and sets forth the objects, aims and privileges of the society of which some of the most important are: To give at least one creditable flower show each year to its members and invited guests; act as authority in horticultural questions pertaining to the best methods of amateur gardening; give instructive public lectures relating to beautifying home surroundings; issue bulletins on the care of plants in the house or conservatory, and in every manner assist the public in their horticultural wants. The privileges are so inviting that members have asked to be enrolled without solicitation, besides this the folder bears the endorsements and signatures of the president of the Civic League of St. Louis, Dr. Wm. Trelease, Director Missouri Botanical Garden, F. W. Taylor, Chief Department of Agriculture and Horticulture, Louisiana Purchase Exposition, and others, all of whom have volunteered to "stand by the ship." At the next regular meeting preparations will be made for the first grand annual meeting in January.

A resolution was offered and adopted to endorse Mr. Wm. Young for state vice-president of the S. A. F. for Missouri east.

OTTO G. KOENIG, Secretary.

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NEW YORK FLORISTS' CLUB.

The meeting of the New York Florists' Club last Monday night was probably the largest business meeting on record for this club. There were not far from one hundred and fifty persons present. The cause of the outpouring was the annual election of officers, and if it had not been for the downpour of rain the crowd would undoubtedly have been considerably larger.

Resignations from membership were received from J. N. May, Chas. H. Allen, and E. Steffens. All were accepted and, on motion of John Birnie, Messrs. May and Allen were elected honorary members. Announcement was made of the death of Mrs. E. V. Hallock and Messrs. Traendly, Wheeler and Stewart were appointed a committee to present appropriate resolutions at the next meeting.

Balloting for officers for 1907 followed. During the vote-counting an onslaught was made upon Mr. Nugent's well-supplied commissary department after which announcement was made that Charles H. Totty of Madison, N. J., had been elected president, A. J. Manda, vice-president; John Young, secretary, and L. W. Wheeler, treasurer, the latter being elected over C. B. Weathered who has filled the office for nineteen years, by a plurality of six. Messrs. John Scott, W. F. Sheridan and Julius Roehrs, Jr., were elected trustees. The defeated candidates then severally made motions declaring the elections to be unanimous and the successful ones, being called upon, each made appreciative remarks. Secretary Young on this occasion was given a roof-raising ovation.

There were some fine exhibits on the tables, which the judges made recommendations on as follows:

Eighty-five points and a preliminary certificate to crimson seedling carnation shown by A. Domeusy; 89 points and preliminary certificate to carnation Welcome a rose pink sport from Mrs. T. W. Lawson, exhibited by Dailedouze Brothers, 85 points and preliminary certificate to carnation Pink Imperial, and 82 points with thanks to carnation Imperial, shown by A. J. Guttman; 74 points and thanks to scarlet carnation Mrs. Robert Hartshorne shown by W. Tierney; cultural certificate to Henry Turner for specimen Gloire de Lorraine begonia and Mr. Mense for violets; thanks to A. C. Zvolanek for sweet peas.

ELBERON HORTICULTURAL SOCIETY.

At the regular meeting of this society on December 3, great interest was taken in a new seedling carnation exhibited by Mr. Tierney of Highlands of Navesink which was awarded certificate of merit, scoring 90 points. Mr. Tierney has named it Mrs. Robert Hartshorne in honor of his employer. There were also exhibited

by Peter Murray a beautiful Phoenix Robelini; carnations by A. Bauer; stevias by A. Grieb; violets by Fred Dettlinger. A committee consisting of Messrs. Robertson, Grieb and Dettlinger was appointed to confer with the Board of Education of Oakhurst in regard to beautifying the school grounds. After remarks by Mr. Herbert Hall the meeting adjourned.

MASSACHUSETTS HORTICULTURAL SOCIETY.

At a meeting of the Board of Trustees of the Massachusetts Horticultural Society held December 8 nine new members were elected. Several protests against recent awards made by the committee on vegetables were considered and referred to a special committee for investigation. To provide for such cases in the future a new rule was adopted as follows:

"Whenever any exhibitor shall consider himself personally aggrieved by any award of a prize he may file a written protest with Secretary immediately after such award. The Secretary shall forthwith transmit such protest to the committee that made the protested award and such committee shall thereupon reconsider such award. No protest shall be considered unless made as provided in this rule."

It was voted also that the free use of one of the halls of the society's building be granted to the landscape gardening class of the Gardeners' and Florists' Club of Boston.

Committees for the year 1907 were appointed as follows:

Finance: W. Hunnewell, chairman; A. F. Estabrook, S. M. Weld. Library: C. S. Sargent, chairman; T. O. Fuller, C. W. Jenks, H. P. Walcott, S. Henshaw. Lectures and Publications: W. P. Rich, chairman; J. W. Manning, J. A. Pettigrew, E. B. Wilder. Prizes and Exhibitions: J. K. M. L. Farquhar, chairman; W. N. Craig, A. H. Fewkes, W. Wheeler, Isaac Locke, W. H. Spooner. Plants and Flowers: A. H. Fewkes, chairman; R. Cameron, W. N. Craig, T. D. Hatfield, W. Nicholson. Fruits: W. Wheeler, chairman; C. F. Curtis, J. W. Hill. Vegetables: Isaac Locke, chairman; Duncan Finlayson, J. B. Shurtleff, Jr. Gardens: C. W. Parker, chairman; Oakes Ames, Geo. Barker, W. N. Craig, W. H. Elliott, A. H. Fewkes, J. A. Pettigrew, W. W. Rawson, W. P. Rich, H. P. Walcott, S. M. Weld. Children's Gardens: H. S. Adams, chairman; H. S. Rand, W. E. C. Rich, W. P. Rich.

WM. P. RICH, Secretary.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of Committees.

Chicago, Dec. 1st.—Mlle. Jeanne Rosette, pink. Exhibited by the E. G. Hill Co. Scored 91 points commercial scale
 DAVID FRASER, Sec'y.

MARYLAND STATE HORTICULTURAL SOCIETY.

Specimens of the best that the state grows in vineyard, orchard and garden were shown at the ninth annual meeting of the society on December 5 and 6 in the armory of the Fifth Regiment, Baltimore. The opening exercises were held in the auditorium at 2 o'clock, Wednesday. Mayor Timanus was escorted to the platform and introduced by Prof. T. B. Symons, state entomologist and superintendent of this year's exhibit. He welcomed the members to the city in a happy vein, and said: "We can learn much from the horticulturists of Maryland. The city government is particularly interested in beautifying the parks and no doubt you can give us many points which if followed will make our parks unsurpassed in beauty throughout the world." Mr. Orlando Harrison of Berlin in responding for the society, praised the people of Baltimore for the pluck shown in rebuilding their city; also made a plea on the part of the society for a building to be known as "Horticultural Hall." President E. P. Cobill referred briefly to the labor question which is now confronting many of the fruit and truck growers and made a suggestion for meeting it; also asked the growers to co-operate in removing all dangers, as far as possible, which surround truck growing, and with the state officials in combating the pear blight, peach yellows and San Jose scale which are doing great damage.

A resolution was introduced by Prof. Symons protesting against the future million-dollar appropriation by Congress for distribution of seeds, as the belief is that the farmers derive no benefit from them and it is a useless waste of money. A copy of these resolutions will be sent to all of their Maryland representatives in Congress.

At the evening session addresses were made by W. Duckham, president of the Chrysanthemum Society of America; Prof. T. B. Symons, and F. W. Besley, state forester.

Among the interesting addresses on Thursday was that of Prof. A. S. Beech, of the Iowa Experiment Station, on "The apple and the manner in which it should be grown". Officers were elected as follows: President, Orlando Harrison; vice-pres., C. J. Seybold; sec. and treas., Prof. T. B. Symons; executive committee, E. P. Cobill, J. W. Kerr.

The banquet, which was the first attempted by the society, was given on Thursday evening at the Eutaw House. Governor Warfield and Mayor Timanus were the guests of honor. The Governor in his remarks favored a state building for the society. Other speakers were Prof. E. P. Cobill and President Sylvester of the Agricultural College.

The exhibition was especially notable, particularly in the apple department where 150 distinct varieties were

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shown. The display of plants and flowers was the largest ever made by the society. The awards in roses went to George Morrison with American Beauty; other reds and pink, Stevenson Bros. and John Cook; white, John Cook and I. H. Moss. In carnations, I. H. Moss took three first; best American seedling ever disseminated, The H. Weber & Sons Co., 1st, John Cook, 2nd; best collection of bulbs and roots, R. Vincent & Son. Special mention was made of the wreath of camellias by Edward Kress. Numerous premiums were awarded on fruit and vegetables of which there was a remarkable showing and on which unstinted praise was worthily bestowed.

SOCIETY OF SOUTHERN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

This society was organized at Chattanooga, Tenn., May 22d, 1906. The purpose of the organization is the mutual business and social benefits to members and the improving and enlarging of trade conditions in southern territory.

Forty-six charter members were enrolled, officers elected, a liberal and practical constitution adopted and arrangements made for the holding of a convention of florists at New Orleans in the near future.

The constitution admits to membership professional and amateur florists, horticulturists, seedsmen, dealers in supplies and implements incidental to the trade and others having allied interests.

There is so much in prospect for the betterment of floricultural and horticultural conditions in the south—a section especially adapted to these operations—through organization, that an earnest appeal is made to all who are directly or indirectly interested to lend a hand in extending encouragement and substantial support by promptly sending in to the undersigned, or directly to the treasurer, their application for membership and the modest sum of one dollar, which the constitution requires as annual dues. J. F. WILSON, Secretary.

PROPOSED FLOWER SHOW AT ST. LOUIS.

The St. Louis Florist Club at its November meeting, voted in favor of holding a "Mammoth Flower Show" in St. Louis, under the auspices of the

club, in November, 1907, provided that a guarantee fund of Ten Thousand Dollars (\$10,000.00) for premiums and other expenses of running said show is subscribed by bona fide subscriptions, twenty-five per cent. of which is to be actually paid in and placed into the hands of the Treasurer on or before June 1st, 1907. Additional call of twenty-five per cent. of the subscription will be made if deemed necessary on or before November 1st, 1907.

After defraying all legitimate expenses incurred, the amount subscribed will be refunded to the several subscribers in full or pro rata, according to circumstances. Should any surplus funds remain after paying all expenses and refunding subscriptions, the same is to be apportioned among the several Orphans' Homes of St. Louis and St. Louis County in proportion to the number of children cared for in each,—to be determined by a committee especially appointed for the purpose.

The undersigned committee, appointed by the president, is anxious to make a good report at the next meeting and therefore urges every one interested in the cause, to subscribe to the Guarantee Fund and to report such subscription as he may make and also the approximate amount that can be raised for the cause among friends, to the Secretary of the Club, before December 10th, in time for the next meeting of the Club.

Frank A. Weber, A. G. Bentzen, Wm. C. Smith, Committee.

J. J. BENEKE, Sec'y,
1216 Olive St.

THE AMERICAN ROSE SOCIETY.

More Prizes.

The President of the Washington Florists' Club, Mr. Peter Bisset, notifies us that Mrs. S. C. Briggs offers a cash prize of \$10.00 for six or more blooms of any new rose never before exhibited. This prize is given especially to encourage private gardeners, who would be likely to show six blooms but would not be able owing to limited space to show a greater number.

Messrs. H. F. Michell & Co., of Philadelphia offer a cup valued at \$25.00 for a vase of Richmond rose to be exhibited next March and Miss M. I. Hammond, of Fishkill-on-Hudson, N. Y., offers a \$5.00 gold piece for the prettiest exhibition in the hall, to be

decided by some three Washington ladies visiting the exhibition.

BENJAMIN HAMMOND,
Fishkill-on-Hudson, N. Y.

CLUB AND SOCIETY NOTES.

The State Horticultural Society of Oregon will meet at Portland January 8-10. An interesting feature will be a demonstration of power spraying apparatus.

The Detroit Florist Club's Christmas exhibit was spoiled on account of the slush and rain prevailing that night. The only notable exhibit staged was a fine lot of cyclamens and Jerusalem cherries grown by Fred Miesel.

The election of officers of the Kentucky Society of Florists resulted as follows: Mrs. C. B. Thompson, president; August R. Baumer, vice-president; Fred L. Schulz, secretary; Joseph Wettle, treasurer; Louis Kirch, financial secretary; Ross Walker, sergeant-at-arms; H. Kleinstarink, trustee, and Robert Campbell, honorary member.

STATEMENT OF PLANT IMPORTS.

There were entered at the port of New York during the week ending December 11, 1906, the following plants, etc.:

From Holland: McHutchison & Co., 6 cases plants; P. Ouwerkerk, 2 es. trees; Stump & Walter Co., 7 es. do.; Vaughan's Seed Store, 3 es. roots; R. M. Ward & Co., 16 es. plants; H. Frank Darrow, 35 es. do.; W. Elliott & Sons, 26 es. trees; Sundry forwarders, 2 es. trees, 50 es. plants, 37 es. flower roots.

From Belgium:—Peter Henderson & Co., 2 es. bulbs; Sundry forwarders, 1 es. do., 1 es. plants.

From Germany:—Aug. Rolker & Sons, 3 es. plants, 10 es. lily of the valley; Sundry forwarders, 468 es. lily of the valley; general order, 713 es. do.; Sundry consignors, 93 es. do., 53 es. plants.

From England:—Aug. Rolker & Sons, 9 es. plants; Sundry forwarders, 1 es. plants, 5 es. trees, 2 es. bulbs and plants.

Plant prospects for Christmas in Chicago are excellent and there will be more and better stock than ever before, especially of ardisias, Lorraine begonias and Ficus pandurata.

SEED TRADE TOPICS.

The next Canners' Convention is to be held at Buffalo, N. Y., during the week beginning with February 11th, with headquarters at the Iroquois Hotel. The old armory is to be used for the machinery exhibit.

The last attempt of the canners to hold their convention at Buffalo, was a failure, owing to the "grab-all" policy of the hotels, and since then the canners have not had the tenderest regard for Buffalo Hotel men, and they have not been backward in expressing their feelings. Realizing that something heroic was necessary to overcome the well-grounded prejudice of the canners, the Buffalo hotel men have arisen handsomely to the occasion, and have met the demands of the canners to their entire satisfaction.

It was during the year of the Pan-American Exposition that the canners met their rebuff. The convention is always held during February, and notwithstanding that the Exposition was not to open until May, the hotel men had such exaggerated ideas of the rush that was coming, that they advanced their rates in February to the figures they expected to realize during the anticipated rush the following midsummer. This recalls the story of the action taken by the Niagara Falls cabmen, some years before the Falls passed under state control. A noted European scientist predicted that the Falls would become dry in about 2,000 years, and the morning following the publication of this prediction, the cabmen raised their fares. While this is not a new story, it points a moral, and is worth repeating here.

The forthcoming convention promises to be largely attended, as matters of great moment to the canners will be up for consideration. Chief among these is the Pure Food Law, and what the canners must do to conform to the same. This is giving the leading canners very serious thought, and causing grave anxiety for many. There is an unprecedented rush for rooms, and those wishing to secure the right accommodations should get busy without delay.

In connection with the mention of Canners' Convention it is fitting to again refer to the prediction made in these columns from time to time, of exceptionally high prices for seed peas. Those who were skeptical on this point and have neglected to cover their shortages, are now finding it difficult to do so, even at the abnormally high figures. This refers of course to pedigree seed, and more particularly to "Canners' Varieties." As matters look now, unless the growers come forward with "seed stock," in liberal quantities, it will be impossible to satisfy the demand unless varieties not generally favored by the canners are used. It seems a safe prediction however, that "seed stock" will be in evidence in due time, as this is always the case in years of crop shortage.

Louis Solden will open a flower and seed store in Elmira, N. Y., at an early date.

Mr. Rutzahn of the Rutzahn Seed Company, Arroyo Grande, Cal., was in

Chicago last week on his eastern business trip.

The convention of the farmers of Pennsylvania at Dubois, Pa., on the 11th inst., furnished opportunity for another whack at the free seed dragon. The Florists' Club of Philadelphia and the Pennsylvania Horticultural Society both had something to say.

An authority on tomato seed writes us: "One of your contemporaries says editorially, 'Tomato seed is one of the cheap and plenty items on the vegetable seed lists'—we are glad they have none to buy; they might learn differently."

Burpee's advance wholesale list of the best seeds that grow is a compact synopsis of crop results for the past season. Prices are about normal except on onions and one or two other items. Deliveries on California crops are much later than usual on account of freight congestion. The same is true of seed potatoes from Maine.

BROAD BEANS.

The almost universal failure of broad beans to produce a crop owing to the ravages of the black aphid is regrettably well known. A friend of mine, Mr. Percy Taylor, has for the past 12 years made beans of all kinds a hobby; he has in the neighborhood of one hundred varieties. Last spring he got together all the kinds of broad beans from Europe and this country; row after row on the 12th of July were in the same condition of black aphid and barrenness as usual, except twenty-five plants among a row of Scarlet Runners, on which there was not a single aphid, and on which there was a good crop of perfect pods and beans; on one plant I counted seventeen full pods.

JOHN THORPE.

Arthur T. Boddington, New York. Catalogue of "Quality" seeds for spring, 1907. Up to date in all respects. Handsome cover and many new illustrations.

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GIANT WHITE, PINK, SCARLET, PURPLE and YELLOW—Large Trade Pkt. (1000 seeds) 25c; 5000 seeds \$1.00; per ounce \$1.25. GIANT BRILLIANT MIXED—Large Trade Pkt. (1000 seeds) 20c; 5000 seeds 75c; per ounce \$1.00

We can interest you with our **Surplus Dutch Bulbs**—write at once.

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MONSTER SPIREAS

A late importation just received in extra fine shape, all suitable for 7 and 8 inch pots.

	Per doz.	100	1000
Gladstone	\$1.50	\$8.00	\$75.00
Astelboides Floribunda	.70	4.25	40.00
Washington	1.25	7.00	65.00

BERLIN VALLEY

Fine large well rooted crowns from the best grower in Europe.

Per 100,	\$1.25	\$10.75 per 1000
	\$25.00 per case of 2500	

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Write today for our Florists' combination order sheet and catalogue of flower seeds.

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SEED TRADE ONLY

Barenbrug, Burgers & Co. are the leading grass seed specialists of Arnhem, Holland. Arnhem has been celebrated for many generations as headquarters for natural grasses. The leading seedsmen of the world look to Arnhem for their supplies of crested Dogstail, Florin, Sweet Vernal, Fescues, Wood Meadow and all fancy grasses for lawns and pastures. Constant growth in any business is proof conclusive that customers receive honorable treatment and full value for their money. Orders from the seed trade are solicited and satisfaction guaranteed. Dr. Stabler's analyses as to purity and germination go with all fancy samples. Write at once to the sole agent for the United States and Canada, George C. Watson, Dobson Building, 9th and Market Sts., Phila. Our guarantee means something. We are not here today and gone tomorrow. We number among our customers the largest seed houses in the world. Orders should be placed now for spring delivery. Present market rates while without engagement are particularly favorable to buyer. All indications point to greatly enhanced figures in the near future.

RAWSON'S HIGH GRADE SEEDS

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LILY OF THE VALLEY PIPS

Just arrived and are, as usual, the finest imported into this market no matter under what name. Send for prices.

SPIRAEA		per 100
Japonica—Extra Strong Clumps	\$3.60
Astilboides Floribunda	4.00
Compacta Multiflora	4.00
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LILIUM LONGIFLORUM		per 1000 per 100
6 to 8 inches	\$27.00 \$3.00
7 to 9 inches	45.00 5.00
Multiflorum, 6 to 8 inches	28.00 3.00
" 7 to 9 "	50.00 5.50

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Cypripedium Leeanum

the one with the white lip, long stems, the finest of all the cyps.

\$12.00 per doz.

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Case Holly well berried best stock in the market, gathered by our special agents in Delaware and Maryland. Special rates on large quantities, **\$4.50 per case**

Holly Wreaths good selection of well made, well berried stock. **\$15.00 per 100**

Laurel Wreathing made extra heavy, glossy and fresh. **4 1-2 and 5c per yard**

Mistletoe home grown; best we have ever handled. **\$7.50 and \$10.00 per case**

Boxwood Sprays more popular than ever; indispensable to every florist, 50 lb. cases **15c per pound**

Winterberry **\$3.50 and \$5.00 per case**

Christmas Plants Hollies, Aucuba, Farleyense, Imported Evergreens, Pyramid Box Trees. Write for our special list.

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SPORTS.

A paper by Patrick O'Mara before the New York Horticultural Society.

About a year and a half ago I was invited to address this body on the subject of "Sports" in connection with a paper read here from Prof. L. C. Corbett. At that time the opportunity was not forthcoming to deliver the address which I had planned, and so the material which was accumulated was lost or mislaid and is not available now. My intention was to address this meeting without the aid of a written paper and thus possibly it would be more extended, but having been called away on a pressing matter, was compelled to hastily put something together so as not to disappoint the members and visitors.

It is with much misgiving as to my fitness for the task that I approach the subject, and willingly would I forego it entirely. It is to be hoped that at some future meeting some one competent to deal with it from its scientific aspect will be found who will address this body on the subject and treat it exhaustively, as I believe there are many of us who are intensely interested in it. The possibility that I may say something which will induce a further ventilation of the subject here is probably the motive which impels me to venture into it now. It is not my purpose to broadly consider the question of sports, but only to confine myself to a few of the leading varieties of cultivated plants which have originated in that manner, with possibly a passing reference to a few noted "seed sports" so popularly designated to distinguish them from those

A GOOD POT COVER.



A very novel and handy pot cover is being offered by the S. S. Pennock-Meehan Co. It is made of card board to fit any size of flower pot and is covered with crepe paper and tied

with ribbon at top and bottom. Looks just as well as if an employee had spent an hour on it and costs less. Here is a picture of it. It is called the "Ever Ready," and that's what it is.

which have been produced by bud variation. A "sport" as popularly understood amongst florists and gardeners is that portion of a plant which assumes one or more characteristics essentially different from the rest of the plant, either in flower, foliage or habit. The vexed question amongst gardeners and florists is how this change takes place, to what prime

cause can it be ascribed. I candidly confess to knowing little of what science has imparted on the subject, but that little leads me to believe that nothing definite has been enunciated. The preponderance of opinion as far as I have sounded it seems to be that "sporting" is due mainly to conditions of growth, or to put it in one word, environment. This cause is

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16 inch Bells	Per Dozen	\$9.00	8 inch Bells	Per Dozen	\$9.00
14 inch Bells		4.50	7 inch Bells		.50
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10 inch Bells		1.00			

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Same price, same quality as last year. Single case \$5.00. two or more at \$4.50. five or more at \$4.00.

Best American Mistletoe, Bright and well-berried. Price reduced from 50c. to 35c. per pound.
Artificial Poinsettias, best in the market, price 20.00 per hundred.

Laurel Roping
 First Class Stock
 6 to 8 cents per yard

Holly Wreaths
 12 cents each

Laurel Wreaths
 Regular 12 in. Size
 \$2.00 per dozen

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84 Hawley Street, BOSTON

not accepted by the vast majority of growers as responsible for the phenomena of "sports", the general belief is that it lies in the blood, to use the vernacular, or to put it in one word, heredity.

In his paper presented to this society March 8th, 1904, Prof. L. C. Corbett said: "Sporting, then, may be encouraged by extreme conditions. Either extreme feeding or extreme poverty may induce plants to sport. Severe changes in climate or soil conditions may result in decided changes in stature, habits of growth and faithfulness, which are as marked attributes of a sport as are changes in the color of foliage or fruit".

This is undoubtedly true in the abstract but it is when brought to bear on concrete cases that it fails to fully satisfy. If by extreme feeding is meant the culture given to roses for example by florists and gardeners when forced under glass for winter flowering, the question arises why more sports are not developed? When thousands of growers are forcing the same variety, it is not always the one who is feeding his crop the heaviest that finds it produces a sport. The fact, too, that a few varieties alone have displayed sportive tendencies to the extent of producing new sorts, strengthens the conviction that the cause lies in the blood.

The rose Catherine Mermet has been the most prolific in sports of the many which have been grown for cut flowers. Its greatest descendants as sports are The Bride and Bridesmaid, the latter displacing the parent entirely. If feeding was the prime cause, why did not many growers find a "Bride" and

a Bridesmaid? Catherine Mermet also produced Waban and I think one or two other sports which have disappeared. Parti-colored sports have appeared occasionally in The Bride and now a grower has one beautifully striped white and pink, the latter being the Bridesmaid color and largely predominating.

Maman Cochet produced a white sport, and in this connection I would say that when a neutral shade like pink is produced, it seems that the combination which produced it carries with it the tendency at some time to produce a white sport. The rose we know as American Beauty has produced two pink sports, American Belle and Queen of Edgely and it is not too much to expect that from these if largely grown would emerge a white sport.

From the rose Safrano came the yellow sport Isabelle Sprunt and from Perle des Jardins came Sunset, from the latter I believe came Lady Dorothea, from Golden Gate came Ivory, from Bon Silene came the striped rose American Banner, which in addition to the change in flower showed a marked change in foliage being decidedly rugose. The latter characteristic is slowly disappearing under propagation, in fact has almost vanished at the present time. Caprice, Striped La France and other striped roses coming from neutral tinted sorts, coupled with the fact that the other sports enumerated follow in the same line, are sufficient warrant for the belief that the combination which resulted in the parent sorts laid the foundation for the sports which resulted from them, and that the man-

ner of growth had no part in it as a prime cause.

The sporting cycle in the Bouvardia is very interesting and in results it exactly parallels the examples set forth relating to the rose. From B. Hogarth a deep scarlet variety, issued B. elegans a lighter colored form, and from that issued B. Davidsonii a pure white. It is interesting to note that two white sports originated at the same time, one in Greenville, now Jersey City, N. J., with Mr. Vreeland and offered as B. Vreelandii, the other B. Davidsonii. They were identical and as the Davidsonii was first on the market the other name was dropped. The original stock of B. elegans in both cases was purchased from Peter Henderson and the conclusion arrived at then was that the elements of change were contained in the plants, and that it would occur under any circumstances. Subsequently a double white and a double pink variety were produced as sports, and later a dwarf variety, White Bouquet, sported from B. Vreelandii with William Bock of Cambridge, Mass., who retained the old nomenclature (Vreelandii), having the same flowers as the parent, but a dwarf, bushy habit, about a foot high when in flower. The fact that these sports were progressive in color leads to the belief that the cause for their appearance was within the plant rather than that their coming was brought about by outside forces. As Bouvardias are largely propagated by root cuttings, it strengthens this belief.

Christmas Holly

Best Well-Berried,
Dark Green Foliage
\$5.00
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Laurel Festooning, good and full, 5c. and 6c. per yard. **Laurel Wreaths**, extra heavy, \$2.00 per doz. upwards. **Special Southern Smilax**, \$3.50 and \$7.00 per case. **Pine Trimming**, all round, 5c. per yard. **Pine Wreaths**, \$1.50 and \$2.00 per doz. **Hardy Cut Dagger and Fancy Ferns**, \$1.25 per 1000. **New Crop Bronze and Green Galax**, \$1.00 per 1000.

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NEWS NOTES.

The Stark Bros. Nursery Co. have closed their business in Atlantic, Ia.

Frank W. Ball has started in the wire design business in Cincinnati, Ohio.

George A. Saunders of Lowell, Mass., doing business under the name of Mellor & Saunders, assigned all his property to his son, A. W. Saunders, on November 30.

The New England pumpkin still holds the boards. One hundred and fifteen pounds was the weight of the one that won a prize for Alex. St. Peter, Jr., of Proctor, Vt., at the State Fair in Rutland.

Mr. and Mrs. Ralph Plebany, of 112 West street, who have been conducting the Elm Grove Floral Company, have discontinued business at So. Norwalk, Conn., and removed to Newark, N. J., where they will start on an extensive scale.

Through the will of the late L. Herbert Taft of Brookline the Prospect Cemetery Association of Uxbridge, Mass., receives \$5,000, which makes their fund \$25,000. The establishment of a hothouse with a superintendent in

charge of the grounds is now under consideration.

Protest of H. Bayersdorfer & Co., against the assessment of duty on sea moss, at the port of Philadelphia, was heard by the general appraisers on November 28 and the decision of October 22 making this article subject to a duty of ten per cent. ad valorem was re-affirmed.

Arthur Coolidge, Watertown, Mass., has sold his farm and homestead. The farm consists of 34 acres. There is about 30,000 feet of glass on the place, a large part of which is devoted to the growth of pinks, violets and bedding stuff. The land has been bought to be used for a cemetery, and is to be vacated within six months.

The annual meeting of the New London County Horticultural Society was held in Norwich, Ct., on the evening of December 7, when the following officers were chosen: President, T. W. Head; vice-president, N. P. Carey; secretary, A. A. Hunt; treasurer, R. R. Wilcox. The treasurer reported a balance of \$100 despite the fact that the dahlia show did not meet expenses and no chrysanthemum show was held.

Pederson Bros. of St. John, N. B., whose greenhouses were destroyed by fire recently, have filed a claim with the city for \$3,000 damages, based on the refusal of the fire department to go to their aid when they discovered they were on the outskirts of the city. The firm pay a half rate for fire protection, and claim that a large portion of their property could have been saved.

PERSONAL.

H. W. Buckbee of Rockford, Ill., is visiting the Pacific coast.

Visiting Boston, W. H. Long, New York; A. J. Loveless, Lenox, Mass.

Mr. T. Mellstrom, American agent for Sander & Son, sails for Europe on the Etruria leaving New York on December 15.

Visitors in New York this week: H. P. H. Gumtau, Berlin, Austria, R. H. James, St. George's, Bermuda, J. K. M. L. Farquhar, Boston, J. C. Vaughan, Chicago, W. F. Kasting, Buffalo.

A. B. Scott, Sharon Hills, Pa., has been ordered south by his physicians. After January 1st his address will be Somerville, S. C., for two months. Took combined efforts of many influential people. A. B. now understands what Sir Joseph Porter, K. C. B., was up against.

HOLLY

Best Delaware Stock, dark green and well berried, delivered by freight, prepaid.
Single case.....\$4.00
5 cases or more, per case.. 3.50

HOLLY WREATHS

Made from the best dark green Delaware Holly, with four large clusters of bright red berries, per 100, \$10.00.

Cash; Order early and will ship on any date desired.

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It is both free and "fancy"—a sure money maker.
Price \$7 00 per 100; \$60 per 1000
Delivery January and later. Write for Descriptive Circular.

S. S. SKIDELSKY

824 No. 24th Street, Philadelphia

SOUTHERN WILD SMILAX

We are booking orders now for futuro delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for samples.

E. A. BEAVEN, Evergreen, Ala.

OBITUARY.

It is with much regret we report the death of Albert Zimmerman, one of Pasadena's foremost and most able horticulturists. Mr. Zimmerman was the first Park Superintendent in Pasadena, taking charge of the parks as soon as they were completed, which position he held until forced to take a change about eighteen months ago for the benefit of his health. About six months ago he went to Arizona for a change of climate, but being unable to regain his health started back to Pasadena, though sad to relate he died on the way. His body however, was brought back to Pasadena for burial.

Mr. Zimmerman was the first treasurer of the Pasadena Gardeners' Association and was an able worker for the improvement and advancement of the association.

On Nov. 28, William C. Elliott passed away after an illness of several month's duration. Mr. Elliott was for many years head gardener on the Greene estate at the Mile Corner, Newport, R. I. About six years ago he retired, devoting his attention since then to the growing of sweet corn of improved varieties, many of them of his own raising. Mr. Elliott was a man of sterling character, modest and unassuming, retiring in his disposition but strong in his beliefs.

Thomas Hefling, who for many years was identified with gardening and florist interests in Milwaukee, Wis., died at his home on December 5, at the age of 80. A widow and seven children survive him.

Mrs. E. V. Hallock died at her home in Queens, N. Y., on December 8. The funeral on Monday, Dec. 9, was attended by many friends in the trade.

The funeral of James Vick, late of Rochester, took place at Philadelphia on the 7th inst. W. Atlee Burpee was one of the pall bearers.

MOVEMENTS OF GARDENERS.

Patrick Devine, who for eighteen years was gardener at Inchiquin, Newport, R. I., the residence of Baroness Seillere, has been appointed gardener for Mr. Pembroke Jones who recently purchased Friedheim from the Havemeyer estate. Thomas Kelly who was assistant to Mr. Devine, moved up to first place at Inchiquin, now owned by Mrs. John R. Livermore.

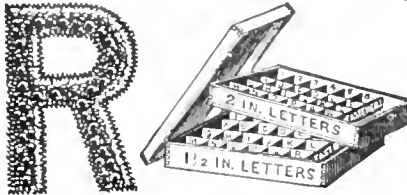
George Ellwood, who has been under gardener for H. H. Baxter of Rutland, Vt., has accepted a position with Mrs. J. W. Crampton, Rutland, Vt.

Mr. Hartnupp recently foreman at Blenheim Castle has accepted a similar position with Sam'l Untermeyer, Greystone, Yonkers, N. Y.

Mr. C. Hooper has been appointed gardener for Major T. K. Gibbs, Newport, R. I.

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO December 11	ST. LOUIS November 12	PHILA. December 12	BOSTON December 13
ROSES				
Am. Beauty, Fan. & Sp.	40.00 to 50.00	20.00 to 25.00	50.00 to 60.00	30.00 to 50.00
" Extra.....	30.00 to 35.00	12.50 to 15.00	30.00 to 40.00	25.00 to 35.00
" No. 1.....	15.00 to 20.00	8.00 to 10.00	20.00 to 25.00	12.00 to 20.00
" Lower grades.....	8.00 to 12.00	4.00 to 6.00	8.00 to 15.00	6.00 to 12.00
Bride, "Maid, Golden Gate, F. & S.	8.00 to 10.00	5.00 to 6.00	10.00 to 12.00	8.00 to 12.00
" " " " Ordinary.....	3.00 to 6.00	2.00 to 4.00	4.00 to 6.00	2.00 to 4.00
Liberty, Richmond, Fan & Sp.	8.00 to 10.00	5.00 to 6.00	12.00 to 15.00	12.00 to 25.00
" " " " Ordinary.....	3.00 to 6.00	2.00 to 4.00	5.00 to 8.00	3.00 to 8.00
Chatenay, Fan. & Sp.	8.00 to 10.00	5.00 to 8.00	12.00 to 15.00	6.00 to 12.00
" " " " Ordinary.....	3.00 to 6.00	2.00 to 4.00	5.00 to 8.00	2.00 to 4.00
Killarney, Fan. & Sp.	8.00 to 10.00	..... to	10.00 to 12.00	6.00 to 10.00
" " " " Ordinary.....	3.00 to 6.00	..... to	5.00 to 8.00	2.00 to 5.00
CARNATIONS				
Fancy.....	3.00 to 4.00	2.00 to 3.00	4.00 to 6.00	3.00 to 4.00
Ordinary.....	1.50 to 2.00	1.50 to 2.00	2.00 to 3.00	1.50 to 2.00
MISCELLANEOUS				
Chrysanthemums, Fancy.....	..... to	5.00 to 40.00	25.00 to 30.00	8.00 to 12.00
" " Ordinary.....	3.00 to 4.00	..... to	12.00 to 15.00	6.00 to 8.00
Cattleyas.....	..... to 50.00	..... to	60.00 to 75.00	50.00 to 75.00
Lilies.....	12.00 to 15.00	..... to	15.00 to	8.00 to 12.00
Violets.....	.75 to 1.50	..... to .....	..... to .....	.75 to 1.00
Gardenias.....	..... to .....	..... to	60.00 to 75.00	..... to
Lily of the Valley.....	3.00 to 4.00	3.00 to 4.00	3.00 to 5.00	2.00 to 4.00
Mignonette.....	..... to .....	..... to	4.00 to 6.00	1.00 to 2.00
Paper White Narcissus.....	2.00 to 3.00	..... to .....	..... to .....	..... to
Adiantum Cucuatum.....	.75 to	1.00 to 1.50	1.00 to .....	.50 to 1.00
" Croweaoum.....	..... to 1.50	1.00 to 1.50	1.50 to	1.00 to 1.50
Smilax.....	12.00 to 15.00	..... to 12.50	12.00 to 15.00	8.00 to 12.00
Asparagus Plumosus, strings..... to 50.00	25.00 to 50.00	50.00 to to 50.00
" " & Spreegeri bunches	35.00 to 50.00	25.00 to 50.00	40.00 to 50.00	20.00 to 50.00

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CUT FLOWER MARKET REPORTS

BOSTON Trade is acceptable for the season, and keeping up in excellent shape.

Prices are strengthening every day as the holidays approach. Growers are beginning to leave flowers on the plants, and unless a very warm spell of weather should intervene there will be no overstock in sight for some time. A free outlet is found for all the roses received at the present time. Evergreens are selling well at advanced prices.

CHICAGO Market conditions have improved considerably this week, stock is moving faster, and prices are a little better.

Nothing is particularly scarce, but the market is well cleaned up every day. Bride and Bridesmaid roses have improved in quality and sell well. Carnations also have made a better showing, and good stock is to be had at reasonable figures. Paper White Narcissi are arriving more plentifully; they are a little druggy on the market.

COLUMBUS The weather the past week has been against trade; the after-

Thanksgiving reaction brought quieter business; so that we have simply had a good steady trade, no boom. As regards prices, they have fallen off a little from the Thanksgiving rates, which we had hoped would hold. The chrysanthemums in best form this week are Golden and W. H. Chadwick, Golden Wedding, Dr. Enguehard and Jeannie Nonin; the last named variety is having a great run. The very best Enchantress carnations bring only a medium price. While it will be a year of short supply of Christmas greens of all kinds the demand has started very early and strong. More than in past years are the large retail stores, in all lines, decorating. All the craft are preparing for a great business; extra hands are already in evidence and on every side comes the advance assurance of a splendid holiday trade.

DETROIT Everybody reports business very satisfactory, with a scarcity of carnations and first-class roses. Sweet

peas are coming in very fine. Holly coming to this market is well berried this season.

INDIANAPOLIS Business last week was steady and the general report

is that every one had about all he could do conveniently. The market has been decidedly in favor of the grower as there has not been sufficient home-grown stock to fill orders. With the exception of a very few late varieties the chrysanthemum season is practically over. Supplies of Beauties, teas and carnations are not too plentiful, many depending on outside markets for supply. Paper White narcissus and Roman hyacinths are getting more abundant every day as also are lilies and callas. Lily of the valley is short at times but supply usually good. Plenty of greens are to be had with especially good demand for boxwood.

LOUISVILLE Business conditions the past week were very satisfactory.

Carnations had a very heavy demand, and there were enough to meet it. Roses sold up to expectations, were of good quality and abundant. Violets have had a great run, and are in good supply. Lilies of the valley and other stock sold well, and could be had in satisfactory quantities.

NEW YORK There has been a very decided shortage of flowers in this market since Thanksgiving, especially of roses, a condition which the gradual withdrawal of the chrysanthemum emphasizes sharply. Of American Beauty there is a fair supply but all other roses are unprecedentedly few for this date and the prospects for Christmas are such as to give much concern. Values, even now, are well up to normal holiday rates. Much depends on the weather of the next few days. Carnations have experienced a decided advance in prices, also, but violets, lily of the valley, narcissi, etc., remain at a moderate range.

PHILADELPHIA The volume of business continued fair last week although some lines were slightly druggy. This is nothing unusual however just before Christmas and no

slackening has resulted in the holiday preparations. While stock is scarce it is felt generally by the best judges that there will be enough to go around. Roses were if anything a trifle more plentiful and continue of first-class quality. Chrysanthemums are on their last legs. The good ones now are mostly white. Carnations are good quality but not plentiful. The demand for violets has fallen off considerably. Orchids are scarce and prices stiffening. Mignonette is very late this year and little of it yet to be seen on the market. Gardenias are scarce and bringing already \$9.00 per dozen. Bouvardias, sweet peas, and daisies are among the staples finding a ready market. Holly, mistletoe, and other Christmas greens and plants are moving out at a lively rate.

PHILADELPHIA NOTES.

The Bearn property at Bala has changed hands. We understand the consideration is twenty thousand dollars. A. B. Wohlert the present tenant had a year's option, but it is said he is not the purchaser. Mr. Bearn is now at Kirriemuir, Scotland, and the business has been conducted by his friend Chas. Sim of Rosemont, Pa.

Gus Deeming, Lansdowne, Pa., has purchased a piece of property from Jno. Westcott located at Union avenue, Lansdowne, and will erect thereon a modern rose growing plant. Lord and Burnham through Dennis T. Connor has secured the contract for building. Everything will be of latest improved construction.

George Burton, Wyndmoor, Pa., will make an addition of some twenty-five thousand square feet of glass to his already extensive range. Contracts have been placed and operations will commence at once. Alfred Burton, his brother, will add about fifteen thousand to his range at same time.

Robert Schuck, for eleven years salesman in this city for Julius Kohler & Sons of Frankford, will start January first as general assistant with W. E. McKissick, the wholesale commission house on Filbert street. Mr. McKissick is to be congratulated. He seems to be a good judge of men and has now one of the best selected staffs in the city, his latest addition being one of the best. Bound to make good. "Bobby Schuck," as his friends call him, is imply irresistible.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Dec. 8 1906	First Half of Week beginning Dec. 10 1906		Last Half of Week ending ec. 8 1906	First Half of Week beginning Dec. 10 1906
Roses			Carnations, Ordinary	2.00 to 3.00	2.00 to 3.00
Am. Beauty, fan and sp.	40.00 to 60.00	40.00 to 60.00	Chrysanthemums	..... to 12.00	..... to 12.00
" extra	20.00 to 30.00	20.00 to 30.00	Cattleyas	50.00 to 75.00	50.00 to 75.00
" No. 1	8.00 to 15.00	8.00 to 15.00	Violets	.50 to 1.00	.50 to 1.00
Lower grades	2.00 to 4.00	2.00 to 4.00	Lilies	12.00 to 16.00	12.00 to 16.00
Bride, 'Maid, Golden Gate, fan & sp	12.00 to 25.00	12.00 to 25.00	Gardenias	15.00 to 50.00	15.00 to 50.00
" ordinary	5.00 to 10.00	5.00 to 10.00	Lily of the Valley	2.00 to 4.00	2.00 to 4.00
Liberty, Richmond, fancy & special	12.00 to 25.00	12.00 to 25.00	Alphonette	..... to .....	..... to
" ordinary	5.00 to 10.00	5.00 to 10.00	Adiantum Cuneatum	..... to 1.00	..... to 1.00
Chateaux fancy and special	12.00 to 25.00	12.00 to 25.00	" Croweatum	..... to 1.50	..... to 1.50
" ordinary	5.00 to 10.00	5.00 to 10.00	Smilax	10.00 to 15.00	10.00 to 15.00
Killarney, fancy and special	12.00 to 25.00	12.00 to 25.00	Aparagus Plumosus, strings	25.00 to 50.00	25.00 to 50.00
" ordinary	5.00 to 10.00	5.00 to 10.00	" & Sprengen, bunches	15.00 to 35.00	15.00 to 35.00
Carnations, Fancy	4.00 to 8.00	4.00 to 8.00			

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Wholesale Dealer

WHOLESALE FLOWER MARKETS.

PER 100.
TO DEALERS ONLY.

	CINCINNATI December 11		DETROIT December 11		BUFFALO December 10		PITTSBURG December 12	
ROSES								
Am. Beauty, Fan, and Sp.	30.00	to 35.00	35.00	to 50.00	40.00	to 50.00	50.00	to 60.00
" Extra	20.00	to 25.00	30.00	to 35.00	30.00	to 40.00	30.00	to 40.00
" No. 1	15.00	to 20.00	20.00	to 25.00	20.00	to 25.00	15.00	to 20.00
" Lower grade	6.00	to 10.00	10.00	to 2.00	10.00	to 20.00	6.00	to 8.00
Bride, 'Maid, Golden Gate, F. & S.	5.00	to 6.00	9.00	to 12.50	8.00	to 10.00	10.00	to 12.00
" Ordinary	3.00	to 4.00	6.00	to 8.00	4.00	to 8.00	5.00	to 12.00
Liberty, Richmond, Fan, & Sp.	3.00	to 6.00	6.00	to 12.50	10.00	to 12.00	5.00	to 12.00
" Ordinary	3.00	to 4.00	6.00	to 8.00	4.00	to 6.00	6.00	to 12.00
Chatenay, Fancy	5.00	to 6.00	9.00	to 12.50	10.00	to 12.00	5.00	to 12.00
" Ordinary	3.00	to 4.00	6.00	to 8.00	4.00	to 8.00	6.00	to 12.00
Killarney, Fan & Sp.	5.00	to 6.00	6.00	to 8.00	5.00	to 12.00	5.00	to 12.00
" Ordinary	3.00	to 4.00	6.00	to 8.00	4.00	to 8.00	6.00	to 12.00
CARNATIONS								
Fancy	2.00	to 4.00	3.00	to 5.00	4.00	to 5.00	3.00	to 6.00
Ordinary	1.00	to 2.00	2.00	to 3.00	2.00	to 4.00	1.00	to 3.00
MISCELLANEOUS								
Chrysanthemums, Fancy	10.00	to 20.00	12.50	to 15.00	15.00	to 20.00	20.00	to 40.00
" Ordinary	4.00	to 8.00	6.00	to 10.00	8.00	to 15.00	6.00	to 12.00
Cattleyas	5.00	to 10.00	5.00	to 10.00	5.00	to 10.00	5.00	to 10.00
Lilies	12.50	to 15.00	12.50	to 15.00	12.00	to 15.00	18.00	to 20.00
Violets	1.00	to 1.50	1.50	to 2.00	1.50	to 1.75	1.00	to 1.50
Gardenias	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Lily of the Valley	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Mignonette	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
Paper White Narcissus	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
Adiantum Cuneatum	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
" Croweanum	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Smilax	12.50	to 15.00	12.50	to 15.00	12.50	to 15.00	12.50	to 15.00
Asparagus Plumosus, strings	40.00	to 50.00	50.00	to 60.00	40.00	to 50.00	50.00	to 60.00
" " & Sprenger, bunches	25.00	to 35.00	25.00	to 35.00	25.00	to 35.00	25.00	to 35.00

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ADIANTUMS.

A. Mitting, Santa Cruz, Cal. Adiantum Pedatum. For page see List of Advertisers. Adiantum Hybridum, fine young plants, 15 for \$1, mailed; \$5 per 100. Originator's stock. Certificate of Merit S. A. F., '05. A. Ley & Bro., Langdon, D. C.

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Albert M. Herr, Lancaster, Pa. Asparagus Robustus. For page see List of Advertisers. E. G. Blaney, 163 Burrill St., Swampscott, Mass. Asparagus Pl. Nansu. For page see List of Advertisers. Asparagus plumosus nanus and Sprengeri, 2 1/2 in., \$2.50 100. Carl Hagenburger, West Mentor, Ohio. Asparagus Plumosa, 2 in. pots. Fine plants, \$2.50 per 100, \$20.00 per 1000. Cash with order or good reference. Erie Floral Co., Erie, Pa., or Wm. F. Kasting, 385 Elliott St., Buffalo, N. Y.

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Charles H. Totty, Madison, N. J. Chrysanthemum Novelties. For page see List of Advertisers.

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CUT FLOWER BOXES.

Folding cut flower boxes, the best made. Write for list. Holton & Hunkel Co., Milwaukee, Wis.

Welch Bros., 226 Devonshire St., Boston. For page see List of Advertisers.

Edwards Folding Box Co., Philadelphia. For page see List of Advertisers.

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DRACAENAS.

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FISCUS PANDURATA.

Robert Craig Co., 49th and Market Sts.,
Phila.

FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2
Bowery, New York.

FLORISTS' FERTILIZER.

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.

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Julius A. Zinn, 2 Beacon St., Boston.

Thos. F. Galvin, 124 Tremont St., Boston.
Henry Penn, 43 Bromfield St., Boston.

J. Newman & Sons, 24 Tremont St., Boston.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway,
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Gude Bros. Co., 1214 F St.,
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Eyres, 11 N. Pearl St., Albany, N. Y.
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Young & Nugent, 42 W. 28 St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone
connections.

Theodore Miller, 4832 Delmar Bvd.,
St. Louis, Mo.
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William J. Smyth, Michigan Av. & 31st St.,
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Cochran Mushroom & Spawn Co.,
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Ky. Tobacco Product Co., Louisville, Ky

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Nicotine Mfg. Co., St. Louis, Mo.
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Specimen Nursery Stock.
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A. Held, 11-19 William St., New York.
Orchids for Spring Delivery.
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Cattleya Trianae semi established, Cat-
tleya Gigas semi established, Cattleya
Schroederi just arrived; in fine condition.
Price per box of 40 plants, 8 to 10 bulbs
to a plant, on application. John De Buck,
Collector of Orchids, P. O. Box 75, College
Point, L. I.

PALMS.

A. Lenth & Co., Roslindale, Mass.
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N. F. McCarthy & Co., Boston.
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Pot hangers, Kramer's \$1 doz. by exp.
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Liberty.

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Paul Niehoff, Leighton, Pa.
Rose Aurora.

J. Brettmeier's Sons, Detroit, Mich.
Rose, La Detroit.

Wm. K. Nelson, Augusta, Ga.
Field Grown Roses.

P. J. Berckmans Co., Augusta, Ga.
Field Grown Roses.

Baby Rambler roses, fine dormant stock,
one year, \$12 per 100, 2 1/4-in. pot plants,
extra well rooted, \$4 per 100, \$30 per M.
Orders booked for delivery now or any
time up to the late spring. Samples free.
Brown Brothers Company, Rochester, N. Y.

SEEDS.

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Boston, Mass.

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J. M. Thorburn & Co.,
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Cauliflower and Cabbage Seed.

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Giant Cyclamen Seeds.

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Conrad Appel, Darmstadt, Germany, Es-
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Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Wizard Brand.

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SPIRAEA JAPONICA.

Schlegel & Fottler Co., Boston.
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SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

Fresh, clean, 5 bbl. bale, \$1.25; 2 bales,
\$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash.
H. R. Akers, Chatsworth, N. J.

SPIRAEA.

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WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue.
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Philip F. Kessler 55 W. 28th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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WHOLESALE FLORISTS—Continued
New York.

- Frank Millaug, 55-57 W. 26th St., New York.
For page see List of Advertisers.
- John I. Raynor, 49 W. 28th St., New York.
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- W. F. Sheridan, 39 W. 28th St., New York.
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- Traudly & Schenck, 44 W. 28th St., New York.
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- Hicks & Crawbuck, Inc., 76 and 78 Court St. Brooklyn, N. Y.
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- A. L. Young & Co., 54 W. 28th St., N. Y.
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- John Young, 51 W. 28th St., New York.
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Philadelphia.

- W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
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- Leo Nlessen Co., 1217 Arch St., Philadelphia, Pa.
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- The S. S. Pennock-Meehan Co., 1608-18 Ludlow St., Philadelphia, Pa.
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- Edward Reid, 1526 Ranstead St., Philadelphia, Pa.
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Pittsburg.

- J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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- Pittsburg Florists' Exchange, 228 Diamond St., Pittsburg, Pa.
For page see List of Advertisers.

New Offers in This Issue.

HOLLY FERNS.

R. G. Hanford, Norfolk, Ct.
For page see List of Advertisers.

KORAL LETTERS AND EMBLEMS: ARTIFICIAL POINSETTIAS.

Koral Mfg. Co., 26 Hawley St., Boston.
For page see List of Advertisers.

MONSTER SPIRAEAS: BERLIN VALLEY.

H. F. Mitchell Co., Philadelphia.
For page see List of Advertisers.

NEW CROP VERBENA SEED.

Johnson Seed Co., Philadelphia, Pa.
For page see List of Advertisers.

ORCHIDS, PEAT, SPHAGNUM AND ORCHID BASKETS.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

SPIRAEAS, EARLY FLOWERING LILIES AND GLADIOLI FOR EASTER FORCING.

A. T. Roddington, New York.
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XMAS PRIMROSES.

Harlowarden Greenhouses, Greenport, N. Y.
For page see List of Advertisers.

XMAS OFFERINGS.

James F. Barclay, R. 1 Greenhouses, Pawtucket, R. I.
For page see List of Advertisers.

CATALOGUES RECEIVED.

W. K. Nelson, Augusta, Ga.: price-list of field-grown roses.

H. F. Mitchell Co., Philadelphia: wholesale list of florists' flower seeds and supplies.

Nathan Smith & Son, Adrian, Mich.: preliminary list of chrysanthemum novelties for 1907.

J. M. Thorburn & Co., New York: preliminary trade price-list of high class vegetable seeds.

PUBLICATIONS RECEIVED.

"The Village: A Journal for Village Life" is the title of a new monthly magazine the first number of which has been just received. The scope of the publication are, as announced in the introductory paragraphs, to reflect and interpret actual life in American villages, to help on the renewed movement towards the ideal life in small communities, to make village life happier, to advocate the formation of village improvement associations, to interest, inform, amuse, and inspire the village dweller. We find ourselves in heartiest sympathy with the purposes of our new contemporary and are glad to extend to its promoters our cordial good wishes for success in their venture. The editorial offices are in Hyde Park, Mass., and the office of publication is at 35 Nassau street, New York. The subscription price is \$1.50 a year.

"Dwarf Fruit Trees" by Prof. F. A. Waugh of Massachusetts Agricultural College comes at a time when it will doubtless meet a warm welcome from the small householder and village dweller—the multitude of people who are now turning their attention to gardening as a pastime, for the pleasure and health afforded by indulgence in rural avocations. It is stated in the introductory paragraphs that this is the first American fruit book in a quarter century which can boldly declare its independence of the professional element in fruit growing. The book is a neatly bound volume of 125 pages, with 15 illustrations, and treats of propagating, pruning, training and other practical details of general management in the production of good fruit in restricted garden areas. Although written especially for the amateur reader, anything that tends to make gardening more generally popular as this interesting little book surely will, is a distinct benefit to the commercial florist and nurseryman, each of whom, doing a retail trade, should have it on their shelves for sale to their customers. It is published by the Orange Judd Company, New York.

AN ENGLISH SCALE OF POINTS.

In the Winter Flowering Carnation Society of England, an association formed for the encouragement of the culture of the American type of carnations, the scale of points for judging new varieties is as follows:

Color	5	points
Size	2	"
Fragrance	2	"
Substance	2	"
Calyx	2	"
General appearance	2	"
Length of substance of stem	2	"
Habit of plant	2	"

A variety must gain at least 30 points to entitle it to a first-class certificate, and 25 points to entitle it to an award of merit. At the first show of this society, held in the Royal Botanic Gardens, London, on Dec. 4, prizes were awarded for the best collection of cut carnations on table 10 ft. by 1 ft., and many other prizes for blooms shown in vases, also for bouquets, baskets, etc.

PROUD OF WIRTH.

In the introduction of the new drive-way, the new city of Minneapolis, Minn., part 1, is a feature of the city to follow in its own way. The city of Minneapolis is the most beautiful and most healthy.

I refer more especially to the drive-way just completed on the west side of the river, from the Franklin street bridge to the Lake street bridge, where it connects with the driveway along the same side of the river, extending to the falls of Minnehaha.

Having passed over this territory several times during the progress of the work and since its completion, I give it as my judgment that it is the best piece of road-building I have yet seen in our entire park system, and furthermore, I think the location of this driveway shows excellent judgment and a fine artistic taste.

The money spent for this splendid improvement has been wisely used, and it is to be sincerely hoped that the park board will be able in the immediate future, to extend this driveway over the short distance between the Franklin avenue bridge and Riverside park, and also to make an equally good driveway on the east side of the river from this bridge to the United States government dam and lock No. 2. Both of these improvements are very desirable, the first to complete the park system on the west side of the river, and the second to properly connect with the St. Paul driveway, now being rapidly constructed on the east side of the river to extend to Fort Snelling. Arthur E. Haynes, State University, in *Minneapolis Journal*.

A PAWTUCKET ENTERPRISE.

J. E. Barclay of Herkimer, N. Y., who took the Rhode Island greenhouses, Pawtucket, R. I., in the spring of 1905, finding the plant not adapted to growing cut flowers of satisfactory quality, has replaced his flowering stock with ferns, smilax and asparagus. Owing to the uncertainty of obtaining loam for bench and potting soil when needed, a sterilizer was a necessity, and old bench soil after being passed through it was used again with satisfactory results. A seven-horse-power blower engine has been set up and a good fire from No. 3 buckwheat coal on a fine grate is obtained at a cost of \$3.25 a ton for coal. An auto delivery car, the only one in Rhode Island, is a feature. Twelve thousand five hundred plants of asparagus Crawshawii, part of which are nearly large enough to be cut from, constitute a prominent department. As is well known, plants of Whitmanii when dug from the bench and placed in pots or pans have a decided tendency to droop. Mr. Barclay will grow this in pans, as the only way in which the erect habit can be maintained, when desired for the ornamental plant trade. He will also grow it in benches to be cut from.

Bostoniensis, Barrowsi and Elegantissima will receive attention, also clarens and primroses, and one house will be devoted to smilax.

POT MAKERS FOR 140 YEARS
A. H. HEWS & Co. Inc. CAMBRIDGE, MASS.
 KIND EVERY WARE FLORISTS

NIKOTEEN APHIS PUNK
 THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
 STRONGEST AND MOST UNIFORM

PRICE 60¢ PER BOX OF 12 LONG SHEETS \$6.50 PER CASE OF 12 BOXES



NIKOTEEN
 LIQUID
 FOR SPRAYING OR VAPORIZING

PRICE \$1.50 PER PINT BOTTLE \$13.00 PER CASE OF 10 PINT BOTTLES

NICOTINE MFG. CO. ST. LOUIS MO.

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 Trademarks and Copyrights

Send other business direct to Washington. Saves time and insures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS
 PATENT LAWYERS
 Box 9, National Union Building
 Washington, D. C.

STANDARD FLOWER POTS
 Packed in small crates, easy to handle.

Price per crate	Price per crate	
1500 2 1/2 in. pots in crate \$4.88	120 7 in. pots in crate \$4.20	
1500 2 3/4 " " " 5.25	60 8 " " " 3.00	
1500 3 " " " 6.00	HAND MADE	
1000 3 " " " 5.00	48 9 in. pots in crate \$3.60	
800 3 1/2 " " " 5.80	43 10 " " " 4.80	
500 4 " " " 4.50	24 11 " " " 3.00	
320 5 " " " 4.51	24 12 " " " 4.80	
144 6 " " " .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.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

BOSTON PLATE & WINDOW GLASS CO.
GREENHOUSE GLASS
 German and American
 261 to 287 A St., BOSTON 20-22 Canal St.

SEND FOR CATALOGUE OF
SCOLLAY HOT WATER and STEAM BOILERS
JOHN A. SCOLLAY
 73 and 75 Myrtle Avenue
 BOROUGH OF BROOKLYN, N. Y. CITY

WANTS, FOR SALE, ETC.
 Advertisements in this column one cent a word. Initials count as words. Cash with order.

FLORISTS' WAGONS FOR SALE
 Three florists' open wagons, three florists' top wagons and three sets of harnesses. Can be seen at 1 West 28 St., New York.
EDWARD HIGGINS.

FOR SALE—Greenhouse Pipe
 4-in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erle St., Chicago.

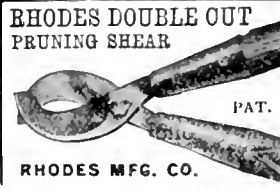
POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—Private place preferred as head gardener. Married; two children; good reference. A. N., care R. & J. Parquhar Co., Boston.

SITUATION WANTED by young man with seven years experience in growing Carnations, Mums and violets. All recommendations. Address A. D. care Mr. Knight, Music Hall flower market, Boston, Mass.

SALESMAN WANTED in wholesale commission trade. Good inducement to right party. Apply with full particulars as to experience, sales, etc., to "F" care HORTICULTURE, Dobson Building, 9th and Market Sts., Philadelphia. None but men of good habits need apply. Nothing fanciful implied in latter requirements—common sense only. All communications strictly confidential.

RHODES DOUBLE OUT PRUNING SHEAR

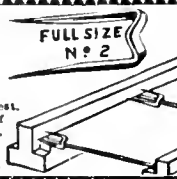


Cuts from both sides of limb and does not bruise the bark. We pay Express charges on all orders. Write for circular and prices.

RHODES MFG. CO.
 Dept. 4. GRAND RAPIDS, MICH.

Standard Flower POTS
 If your greenhouses are within 500 miles of the Capital, write us, we can save you money
W. H. ERNEST.
 28th and M Streets, WASHINGTON, D. C.

Holds Glass Firmly
 See the Point **PEERLESS**
 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.



GREENHOUSES BUILDING AND PROJECTED.
 Additions.
 Norwell, Mass.—C. A. Berry, one house.
 Westport, N. H.—Herman Boles, one house.
 New.
 Newtown, Conn.—William Boyd, one house.

A USEFUL TOOL.
 The Rhodes double-cut pruning shears, advertised in HORTICULTURE, should interest nursery men and gardeners because, from its peculiar form with two cutting edges, a clean smooth cut is assured which heals up rapidly, as the bark is not bruised or peeled from the limb as is apt to be the case with ordinary pruning tools.

INCORPORATED.
 The Loveland Floral Co., Milwaukee, Wis., by John Krueger, Carl Carlson and C. F. G. Wegner; capital, \$1,500.
 Bon Arhor Chemical Co., Paterson, N. J., phosphates, fertilizers, and gardeners' supplies; capital, \$6,000; Edw. Earnshaw, Elinor Earnshaw, J. Krulansky, incorporators.

LIST OF PATENTS.
 November 27, 1906.
 836,993. Seed-Tester. Maximilian Bahr and Hans B. Bauer, Manitowoc, Wis., assignors to the William Bahr Sons Co., Manitowoc, Wis.
 837,140. Garden Rake. John M. Smyth, Plato, Ky., assignor of one-half to T. V. Ferrrell, Somerset, Ky.

HORTICULTURE'S REPRESENTATIVES.
 The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items.
BUFFALO, N. Y.—E. C. Brucker, 385-87 Ellicott St.
CHICAGO, ILL.—Peter Pearson, 920 N. Campbell Av.
CLEVELAND, O.—A. L. Hutchins, 2220 East 74th St.
COLUMBUS, O.—M. B. Faxon, 246 Oak St.
CINCINNATI, O.—Frank W. Ball, 31 East 3d St.
DETROIT, MICH.—Frank Danzer, 1487 Fifteenth St.
INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.
LOUISVILLE, KY.—F. L. Schulz, Jr., 1325 Cherokee Rd.
MINNEAPOLIS, MINN.—G. L. Skutt, 3800 Bryant Ave.
MONTREAL.—William Cooper, 338 St. James St.
NEWPORT, R. I.—David McIntosh, Ledge Road.
PHILADELPHIA, PA.—George C. Watson, Dobson Bldg., 9th and Market Sts.
SAN FRANCISCO, CAL.—Luther Monnette, 866 Isabella St., Oakland, Cal.
TOLEDO, O.—J. L. Schiller, 929 Prouty Ave.

... DON'TS ...

Don't let anyone Jolly you into the idea that they are the only ones that understand the business of

GREENHOUSE BUILDING

We have the knowledge, experience, material, equipment and the intention to **serve you second to none.**

We do not claim there are no others.

Before building, consult us and we will give you our best services and attention without cost to you.

Foley Mfg. Co., Greenhouse Material

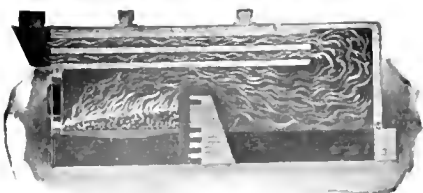
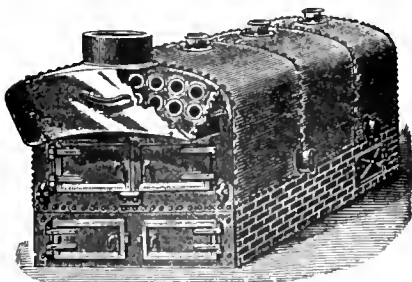
471 W. 22nd St., CHICAGO

AFTER MARCH 1, 1907, WE WILL BE IN OUR NEW FACTORY AND INVITE YOU TO PAY US A VISIT. IT WILL INTEREST YOU.

Kraeschell Bros. Co.

IMPROVED

Greenhouse Boiler,
35 Erie St., CHICAGO.



Rollers made of Steel Boiler Plate; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for Information.

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FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE. BOSTON 74 FRANKLIN ST.

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL.

WEATHERED COMPANY
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GREENHOUSE BUILDING AND HEATING
Send for Catalogue

N. TONAWANDA, N. Y. TORONTO, ONT.



GREENHOUSE CONSTRUCTION LUMBER

John C. Moninger Co.
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CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address
John G. Esler, Saddle River, N. J.

What We Are Trying To Do Is,

show up to the florists that the trifling amount saved on the wood framed house, over our iron frame one, is swallowed up many times in repair expenses. That the wide house is cheaper to erect, easier to work, heat and ventilate than narrow houses. When we make a man see these things we know he will get the right thing at the right price.

HITCHINGS AND CO.
GREENHOUSE DESIGNERS AND BUILDERS.
Manufacturers of Heating and Ventilating Apparatus.
1170 Broadway, NEW YORK.



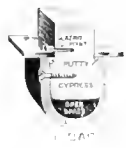
Rutherford, N. J
Oct 20, 1905
Lord & Burnham Co.,
1133 Broadway,
New York City

Gentlemen
We would esteem it a favor if you would be kind enough to give us your lowest price on the material for four greenhouses like those we have just completed.
We have been experimenting with the new boiler and would like to inform you that within an hour after the fire was started every pipe in our greenhouses was so hot that it was almost impossible to touch it. We are sorry now that all our boilers are not the same as this one. We feel confident that it is a money saver.
Since we have to put in six new sections in one of our boilers would it not be better for us to have an entirely new boiler like the one we have just put in.

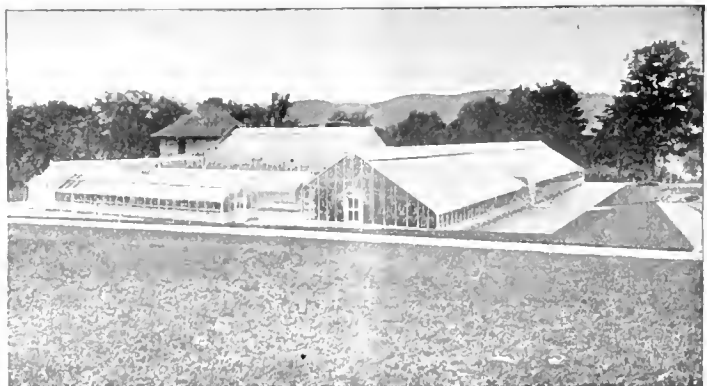
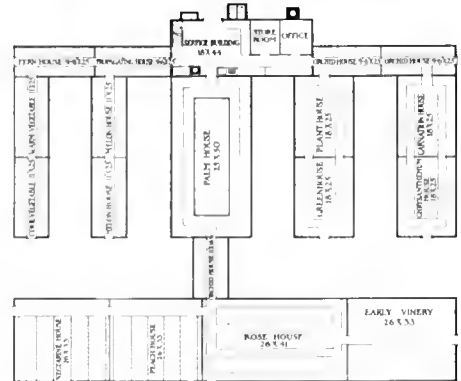
That is the way we do business—do it so we can do it again.

Lord and Burnham Co.,
Greenhouse Designers and Manufacturers, 1133 Broadway, corner 26th Street, N. Y. Boston Branch: 819 Tremont Building.

Yours very truly,
(signed) Bobbink & Atkins.



We publish this plan along with the cut because it is the only way you can form an idea of the magnitude of the range. The U-Bar construction meets all the requirements of the man who wants just a small house, or the estate demanding houses for every sort of growing condition. The wide spacing of glass, curved cave and its extreme lightness make a construction unmatched by others. Send for Catalog. **Pierson U-Bar Company, Designers and Builders U-Bar Greenhouses, Metropolitan Building, Fourth Avenue and 23rd Street, New York.**



HORTICULTURE

Vol. IV.

DECEMBER 22, 1906

No. 25



PINE BANK, WEST OF BOSTON

Devoted to the
*FLORIST, PLANTSMAN,
LANDSCAPE GARDENER*
and
Kindred Interests

Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00

1906 22 1906

CHRYSANTHEMUM NOVELTIES

THIS YEAR I have to offer once more a splendid lot of new varieties. Among them will be found

IN WHITES—MISS CLAY FRICK, the white sport of Wm. Duckham, winner of the Frick prize at Chicago. The best new variety of the year.

Mrs. A. T. Miller, Moneymaker, Kathleen Stoop.

IN PINKS—Miss Mariam Hankey, Mrs. Walter Jenks, etc.

IN YELLOW—Mary Godfrey, Mrs. Geo. Hunt, Norman Davis, Buttercup, etc.

Also J. W. Moreman, Mrs. Henry Barnes, W. J. Crossley, and many others shown at the different exhibitions.

I offer young stock for delivery early in the new year. 50 new varieties of singles, the latest craze. Send for my complete list issued December 1.

CHARLES H. TOTTY, MADISON, N. J.

CHICAGO CARNATION CO., A. T. PYFER, Manager, Joliet, Ill.

STILL RETAIN THEIR SUPREMACY AS CARNATION GROWERS

15 entries at Chicago won us 15 first prizes. Our stock is healthy and the cuttings will be well rooted. January delivery on:—
Red Riding Hood (Scarlet) \$12.00 per 100 \$100.00 per 1000 Aristocrat (Bright Cerise) \$12.00 per 100 \$100.00 per 1000
White Perfection 6.00 " " 50.00 " " Rose Pink Enchantress 7.00 " " 60.00 " "

AND MANY OTHERS. SEND FOR LIST.

MABELLE NEW PINK CARNATION FOR 1907

COLOR—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most Pinks, the brightest sun does not injure the color. **SIZE**—3 to 4 inches in diameter when established. **ODOR**—Pleasing, but not strong. **STEMS**—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. **HABIT, etc.**—A very quick, a five grower, making specimen plants in a short time, even from late cuttings. On account of its rapid growth, requires supporting very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. **PRODUCTIVE**—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. **Stock Limited. Delivery January 5th to 10th and later.**

Price \$12.00 per 100, \$100.00 per 1000

The H. WEBER & SONS CO., Oakland, Md.

DON'T Be Afraid To Invest In ROSE PINK ENCHANTRESS

It is both free and "fancy"—a sure money-maker. Price \$7.00 per 100; \$60 per 1000. Delivery January and later. Write for Descriptive Circular.

S. S. SKIDELSKY

824 No. 24th Street, Philadelphia

RICHMOND ROSE 2 1/4 in.	\$11.00	\$100.00
KAISERIN " "	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
ENCHANTRESS	3.00	25.00
QUEEN and LAWSON	2.00	18.00

E. H. PYE, FLORIST
UPPER NYACK, N. Y.

DEBUTANTE

The most profitable light pink Carnation.

Tested Four Years

\$10.00 per 100. Delivery begins Jan. 1.

J. W. HOWARD - Somerville, Mass.

PEONIES

\$6.00 to \$10.00 per 100

EDWARD SWAYNE
WEST CHESTER PA.

CARNATIONS.

Red Chief—Bright scarlet—early and very productive. \$12.00 per 100; \$100.00 per 1000. Average 3 in. flower. A leader in every respect.

Bonnie Maid—Clear pink edged white.—\$12.00 per 100; 100.00 per 1000. Large well formed bloom. Very early and productive.

F. DORNER & SONS CO.
La Fayette, Ind.

Carnations Rooted Cuttings

READY FOR DECEMBER DELIVERY.

Pink Lawson, Variegated Lawson, White Lawson, Mrs. T. W. Lawson, Haity Fena, Manly, Boston Market, Fair Maid, Enchantress.

HENRY A. STEVENS CO.

East Street, Needham, Mass

JOHN E. HAINES,

The Leading Scarlet

brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass. All shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted, healthy cuttings leave the place. Rooted cuttings ready Dec. 15, 1906. Price, \$6.00 per 100; \$50 per 1000.

JOHN E. HAINES, Bethlehem, Pa.

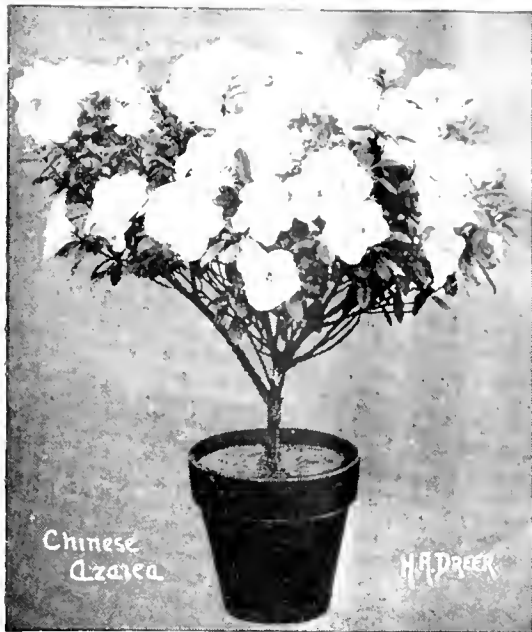
CHRYSANTHEMUMS

C. Tousey and Nonin, the money makers as we have found them \$1.00 per doz.; \$7.00 per 100; \$60.00 per 1000. Pacific, Estell, Willowbrook, Halliday, Kalb and L. Harriet, 60c per doz.; \$4.00 per 100; Cash with order.

EGGELING FLORAL COMPANY
653 S. Grand Ave., St. Louis, Mo.

TO BUYERS

Patronize our advertisers, they will treat you right



AZALEAS For Forcing

We can still furnish a fine lot of well conditioned plants of immediate delivery. We offer the following assortment of several varieties:

8 to 10 inch crowns,	12 to 14 inch crowns,	\$2.00	\$3.00
10 to 12 inch crowns,	14 to 16 inch crowns,	2.00	3.00
12 to 14 inch crowns,	16 to 18 inch crowns,	2.00	3.00

A fine lot of plants of exceptionally good quality in the following varieties 18 inches in diameter at \$18.00 per doz.

- | | | |
|--------------------|----------------------|-------------------|
| Deutsche Perle | Simon Mardner | Niobe |
| Empress of India | Mme. Vander Cruyssen | Apollo |
| Bernard Andre Alba | De Schryverlana | Emperor of Brazil |

A nice lot of specimen plants, 18 to 20 inches in diameter at \$2.00 each

- | | | |
|-----------------------------|--------------------|---------------|
| Mme. Camille Van Langenhove | Empress of India | Simon Mardner |
| Niobe | Bernard Andre Alba | |
| Mme. Vander Cruyssen | | |

A grand lot of specimen plants of Mme. Vander Cruyssen, 20 to 22 inches in diameter at \$2.50 each.

HENRY A. DREER

714 Chestnut St., PHILADELPHIA, PA.

Adiantum Pedatum

Adiantum Pedatum grows its fronds 24 inches high, with 5 branches on a stiff stem. No better adiantum grown for cutting or as a pot plant. Strong 5 inch pots, \$10.00 per 100. Cash, ex. prepaid. Try 25 and you will want more.

YELLOW CALLA. ELLIOTTIANA. strong bulbs, the coming pot plant, 35c. each: \$4.00 per 12.

A. MITTING, 17-23 KENNAN STREET, SANTA CRUZ, CAL.

ROOTED CUTTINGS OF Kaiserin, President Carnot and La Detroit

Strong, healthy, well-rooted cuttings, ready Dec. 1st; price \$2.50 per hundred or \$20.00 per thousand.

Try our strong, healthy, western grown wood from the best corn soil in Illinois.

BASSETT & WASHBURN
HINSDALE, ILLS.

FERNS, CRIMSON RAMBLERS, etc.
10,000 fine Ferns, low, stocky plants, Bostons, Pteris, Scotti, 5 and 6 in. pots. Must be sold.
2,000 2-year old Crimson Rambler, 3 to 4 ft.; several canes, \$15 per 100.
5,000 Vinca maj. var. Fine Stock, for 4 in., \$5.00 per 100; 2 1/2 in., \$2.50 per 100.
50,000 Shrubs, Vines, Ampelopsis, Veitchii, Honey-suckles, Clematis, Wistarias, Cannas, etc., that must be sold. List Free.
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Stove and Greenhouse Plants

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We have still a few thousand Azaleas to offer in leading varieties, early and late sorts, from \$25.00 per 100 up to \$3.00 each.

Also a fine lot of Palms in all sizes, such as Kentias, Arcas, Lotonias, Phoenix and Cocos, Pandanus Veitchii and utilis, Crotons, Dracaenas, Nepenthes, Aralias, Araucarias, Aspidistras, Ferns suitable for dishes, in leading varieties. Cibotium Schiedel from \$1.00 to \$3.00 each.

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ARAUCARIA COMPACTA ROBUSTA, have only fine plants 6 to 7 in. pots, 20 to 25 in. high, 4 to 5 years old, 3, 4, 5 tiers, \$1.50, \$1.75, \$2.00 each.

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SCOTTI FERNS, 8 in., as big as a washtub, \$1.25, \$1.50, worth \$3 5/8 in., 40c, 6 in., 50c.

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VANDA CÆRULEA and **DENOROBIMUM WARJANUM** LILII
We quote prices per 100 plants
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We offer fine selected specimens in all sizes, from medium sized plants in 6-inch pans up to immense elegant specimens in 16-inch pans, suiting all purses and all classes of trade.

Order early and have the stock on hand where you can show it. You will find nothing more satisfactory or profitable. We can supply fine plants as follows:—

Fine plants, 6-in. pans, 75c. and \$1.00 each—according to size. Fine specimen plants, 8-in. pans, \$1.5) and \$2.00 each—ac ording to size. Very fine specimen plants, 10-in. pans, \$3.0) each; large specimens, 12-in. pans, \$5.00 each; extra large specimens, 14-in. pans, \$7.50 each; still larger srecimens, 16-in. pans, \$10.00 each. Also young stock for growing on, \$12.00 per 100.

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Japan-grown, 9-10 in. bulbs, case of 200 for \$15.00
Japan-grown, Multiflorum, 7-9 in. bulbs, case of 300 for 15.00
Japan-grown, Multiflorum, 9-10 in. bulbs, case of 200 for 17.00
Japan-grown Giganteum, 8-10 in. bulbs, case of 225 for 22.50
Freesia refracta alba, finest Bermuda bulbs, \$7.50 per 1000.
Lily of the Valley. Just arrived. Our finest Perfection grade

for earliest forcing, immediate delivery, case of 2,000 pips for \$28.00.
Gladiolus Colvilli alba, "The Bride," \$7.50 per 1000.
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ASTILBE, OR SPIREA. Ready for delivery. Gladstone, \$8.00 per 100; Astilboides floribunda and Japonica, \$5.00 per 100; Compacta multiflora, \$6.00 per 100.

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have the finest stock of recognized **Hardy Rhododendrons, Azaleas, Andromedas**, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

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Meadowvale Farm

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The Best Mixtures, Collections and Named Varieties in Existence.

Write for 1906 Catalog

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not only has one of the largest, but one of the finest collections of any firm in America. We have over a million Dahlia roots to sell this coming season. Send for prices.

J. K. ALEXANDER, Prop., East Bridgewater, Mass.

DAHLIAS.

Now is the time to place your order for bulbs which will insure you getting named varieties in any quantity; delivery to be made this fall or early spring.

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Successors to L. K. Peacock, Inc.
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Deciduous Trees and Shrubs, Evergreens, Rhododendrons, Azaleas, over one hundred 100 acres of the choicest varieties.

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Has the largest and finest collection of Dahlias in United States, with prices that will suit the trade. Send for price list.

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East Bridgewater, Mass.

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AZALEAS 4 colors, 75c to \$2.00 each
G. D. Lorraine Beg. 5-in., 50c to 75c each
Cyclamen 5-in., 5 colors \$3.00 to \$4.00 per doz.
Boston Ferns 50c to \$1.50 each
Elegantissima 50c to \$2.50 each
Whitmanil 75c to \$3.50 each
" cut fronds \$2.50 to \$4.00 per 100
Asparagus P. N. 2 1/2 in., \$4.00 per 100
Smilax 6-ft. strings 15c & 20c per string
Asparagus Plumosus
\$1.00 to \$3.00 per 100 sprays
Maiden Hair Fern true " Croweanum
75c to \$1.50 per 100

Strictly Cash with Order

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XMAS PRIMROSES!

FINEST CHINESE

A fine lot of 4 x 5 inch in flower and bud, all colors: blue, rose, blush, white, red, fringed, \$15 and \$20 per 100. Cash. Say with or without p.t.s.

Shipped Instantly

HARLOWARDEN GREENHOUSES, - Greenport, N. Y.

GOVERNOR HERRICK THE NEW VIOLET

Originated and introduced by

H. R. CARLTON, Willoughby, O.

We have the following stock in the finest condition to plant and now is the time to plant:

2 1/2 inch at \$2.00 per doz., \$10 per 100 and \$75 per 1000
4 " " 2.50 " " 12 " 100 " 75 " 1000

It will pay you. Try it. Order at once.

The Cycles of the Amaryllis (Hippeastrum)

Amaryllis is the name of a charming young girl to be found in the verses of Theocritus and Virgil. The time—three or four hundred years before the Christian era. Hippeastrum comes from *hippens*, a knight; and *astron*, a star—the Star Knight. Their popular names are the Lily of the Gods, the Palace Lily, the Forest Flamingo, the Puma's Lamp, the Parrot's Companion, Mexican Lily. Besides these, in the order of Amaryllideae, are *Brunsvigia*, *Crimm*, *Griffinia*, *Nerine*, *Sprekelia* (the Lily of the Knight of St. James), *Sternbergia*, *Vallota* (Scarborough Lily), and *Zephyranthes*.

Before proceeding I am compelled to call attention to the fact of how much and how frequently we are indebted to some individual for the exploitation of some beautiful gems of plants, without which they mutely exist in their unrecognized beauty. In this noble order of Amaryllideae it is to the Rev. Dean Herbert we are indebted more particularly. He (like so many good men of religion such as our good Dean Hole with the rose) was determined that the whole Amaryllideae should be recognized and made popular, so we may very advantageously turn back a few pages and learn what has been so nobly done.

The first collection of amaryllis I remember seeing was in company with my father on a Sunday in 1848 or '49 at the end of March, at Squire Holford's, Weston Birt, Gloucester, after a drive of twenty-five miles. In a lean-to greenhouse, probably 25 feet long and 11 or 15 feet wide, was a stage of eight or nine shelves, one above the other, on the back; on the front a bench 2 1/2 feet wide, and here, mixed among early pelargoniums and Dutch bulbs were nearly one hundred amaryllises in flower. I remember the *aulica* (red and green), *psittacina* (the parrot), and the blue *griffinia*, and I wondered whether I should ever see anything as beautiful again or ever own any or even one like these. Happy day! The greenhouse roof of thick, heavy rafters carried 3-foot-wide sashes; there were two on each rafter, the top one sliding down. The size of the glass was 6 x 4 inches. Built in the time of taxes on glass this greenhouse was a noted one. The only windows or other glass structures that did not pay taxes were dairy windows and cheese room windows, each having to bear their sign in black letters on white ground. There were no greenhouse builders advertising as in our day.

There are some species of amaryllis (I believe I'll call them all amaryllis because when in 1867 Pearce sent from Peru *pardina* did not Sir W. Hooker name it amaryllis *pardina*? It's the name by which I knew them first, and John Cowell tells me that plants don't care what they are called if they have enough to eat and drink) which should be in every collection however limited. I mean that whosoever is interested in them ought to have the family well represented by these typical forms.

A. *Belladonna*—Belladonna Lily—flowers, 4 to 5 inches long, tubular, 2 1/2 to 3 inches wide, produced in umbels on strong plants, fifteen or twenty or more, sometimes three and more stems from one bulb, colors varying from nearly pure white to reddish purple; leaves long, rather narrow, recurved; flowers in autumn before the leaves appear which are made during the

year. I have seen a specimen from Rio Janeiro, 1829. *Cochlearia*—The name is from the Greek *kokke*, red. A. *fulgida*—flowers, 4 to 5 inches long, tubular, 2 1/2 to 3 inches wide, produced in umbels on strong plants, fifteen or twenty or more, sometimes three and more stems from one bulb, colors varying from nearly pure white to reddish purple; leaves long, rather narrow, recurved; flowers in autumn before the leaves appear which are made during the year. I have seen a specimen from Rio Janeiro, 1829.

A. *equestris* (the Barbadoes Lily)—flowers of the type orange green, exquisitely shaped, the recurved top petals simply charming. Other very handsome forms of *Equestris* are *fulgida*, orange margined white; *flore pleno*, rich orange, quite double; *Alberti*, flowers much larger and more double than *flore pleno*; *ignescens*, bright scarlet, with white throat, center of petals also marked with white. All the *Equestris* are desirable, neat and pretty plants. The type from Cuba, 1710. Other forms have been introduced since.

A. *pardina* (leopard spotted)—one of the most beautiful among all genera. Flowers more than 6 inches in diameter; very spreading, scarcely any tube; ground color rich creamy white overlaid with a fine net work of delicate green, profusely dotted with rich scarlet and blood-red crimson. Peru, 1866.

A. *Leopolde*—The king of all amaryllis as a species. It is like *auratum* among the lilies. All the petals are nearly of equal size, very broad and nearly flat; scarcely any tube; center of flower richest velvety crimson, with a suspicion of green at the base; margins wide and, but for a tinge of misty green, they are pure white. The centre of the flower is a six-pointed crimson star. What a gem! Peru, 1869.

A. *Regina*.—One of the earliest introductions from South Mexico, 1728. Flowers large and spreading; color deepest crimson and light orange, with starry center of creamy white. A fine plant, long to be remembered.

John Thorpe

(To be Continued)

Berberis Repens

Most of the broad-leaved evergreens are failures in the West. The dry air of winter is too much for them. We cannot raise holly, azalias, kalmias and rhododendrons, but in the Rockies and in the Black Hills Nature has furnished a very good substitute in the *Berberis repens* or holly-leaved creeping barberry. Generally these come through the winter all right; a little shelter on the south is a help. The common name is Oregon grape. They grow in great masses in the Rockies. They have large spikes of yellow flowers of marvelous fragrance which loads all the air and you seem wading in it. It seems to do well all through the West. Years ago it was tried in the Arnold Arboretum, but the plants were from the western slope and were not as hardy as those from the eastern slope or from the Black Hills.

C. S. Hammon

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Rose values advancing

In many sections the dearth of the rose crop during the past fortnight has created much uneasiness concerning the holiday supply and it looks now as though prices might soar. When values are advanced solely because of the disparity between supply and demand it is a natural course and no one is justified in scolding about it. High prices thus originating are very different from inflated prices and, unlike the latter, can bring no discredit to the market. A bit of good advice to wholesaler and retailer in the present

junction is to quote prices for future delivery with great caution.

The A. C. S. meeting at Toronto

The first important horticultural event of the New Year—the meeting of the American Carnation Society at Toronto, Ont., is now only a month distant. It comes at a season of the year when many find it inconvenient to leave their business and when the weather is not conducive to comfortable traveling, but no one ever attends these meetings without getting full value for all the effort and sacrifice involved and we urge upon every one who can possibly do so to plan to be a participant in the representative gathering which will convene at Toronto. There will be much to see, much to enjoy and much to learn.

Artificial vs. disfigured flowers

We have heard recently some severe criticism of the inclination on the part of florists to use artificial material such as poinsettias in their window and store adornment. The complaint is well-founded, in a measure, but we must take human nature as we find it and it will be a long time before imitation flowers in some form are no longer accepted or called for by the people. Last year it was tissue paper bells, this year it is poinsettias, next year something else, probably. It is a question as to which is the greater offence, artistically—the selling of outright artificial flowers or the disfigurement of real flowers or plants by dyeing or overdecking with bows and floeuses. One cannot help pitying the "Araucaria in Holiday Attire," depicted in one of our contemporaries last week as an example for its readers to copy. And when we read in the accompanying text that the plant represents a value of \$4.00 and the trimming \$6.00, it does seem that the limit of absurdity has been reached.

Planning for the flower shows of 1907

There is promise of plenty of activity in fall flower show matters during the coming season. It is generally understood that Kansas City is likely to duplicate her big affair of two years ago, Indianapolis is also in for it, the American Institute in New York City is already planning, and St. Louis has begun the securing of a \$10,000 guarantee fund for a similar purpose. These, together with the big regular annual shows at Boston and Philadelphia and the lesser displays at scores of places, will make November of 1907 a record month for flower shows. As, in order to make the chrysanthemum a leading feature, it will be necessary to crowd all into a period of two or three weeks the big exhibitors who seek to be represented at all the important shows have plenty of work ahead. Local growers are indispensable in every instance and their interest should be awakened by an early publication of schedules so that sufficient time may be given for preparatory planning and planting. January 1 is late enough.

Progress Upward

Mr. Editor: I see it printed on your page that HORTICULTURE is now two years old. Congratulations and good wishes are therefore in order and are hereby extended. Your birthday number is all that can be desired. Keep on as you lay, begin, and aim high. "Perseverance gains its mead, and patience wins the race."

Starting at the bottom and bravely climbing up is the right way to do; better far than starting at the top and tumbling down. Quite a little comment and discussion is going on at present regarding an individual who started at the top, in fact he came out as a full fledged creator; it is apparent that "great will be his fall," and when he gathers himself up and finds his true level he will probably realize that all he amounts to is a fourth-class plant breeder. He is said to be maintaining a "Sphinx-like silence"; no doubt silence in this case is golden. A defence which would obviously be unsuccessful might endanger the continuation of that ten thousand annuity. Evidently he is of the same mind as Falstaff and considers "discretion the better part of valor."



We Cover the Country

If any doubt still exists in the mind of any advertiser as to the field covered by HORTICULTURE and the class of readers its contents appeal to, a perusal of the following communications may supply further light to the doubter:

COLORADO.

I congratulate you on your prosperity, as evidenced by your anniversary number. After all is said and done, it is the advertising that counts, and you are very evidently getting your share. You are certainly providing some very entertaining reading matter, which will insure the ads. coming to the attention of the right people.

Yours sincerely,

Denver, J. A. VALENTINE.

DISTRICT OF COLUMBIA.

Your second anniversary number of HORTICULTURE at hand, allow me to congratulate you on the splendid progress you have made, and express the wish of long life and prosperity for your fine paper.

Very truly yours,

Washington, PETER BISSET.

FLORIDA.

HORTICULTURE'S anniversary number is "jam up to now," and if the older "boys" don't look out "the little child will be leading them." Accept my hearty congratulations.

Yours very truly,

Jacksonville, C. D. MILLS.

ILLINOIS.

Gentlemen: We wish to compliment you on the excellent copy you made of our "ad." to appear in your anniversary number.

Yours very truly,

Chicago, KROESCHELL BROS. COMPANY.

Congratulations; your 23d or "skidoo" number certainly was good. Considering the short space of time HORTICULTURE has been in a field so well covered, it is quite

pleasant to see that you have been successful in this respect.

With the best wishes for the best of the year.

Chicago, THE E. G. HILL, CO.

Your anniversary number is a beautiful one.

Richmond, THE E. G. HILL, CO.

MARYLAND.

Enclosed please find a check for \$1.00 the subscription price for the HORTICULTURE. I am very much pleased with it and hope you will keep on growing.

Baltimore, JOHN COOK.

MASSACHUSETTS.

I must congratulate you on the quality of your anniversary number of HORTICULTURE. It excels in what horticultural papers usually are deficient in, good, practical horticultural matter. Keep up the good work.

Your sincere well-wisher,

Boston, J. A. PETTIGREW.

MINNESOTA.

Your anniversary number is at hand and same is a very interesting and instructive example of "horticulture" in general. I like its get-up and type, am well pleased with the up-to-date and varied reading matter it offers and appreciate the careful, comprehensive arrangement of its advertisements. Keep on and HORTICULTURE will make friends wherever it goes. It is a welcome weekly visitor, friend and adviser to

Yours very truly,

Minneapolis, THEODORE WIRTH.

MISSOURI.

Your anniversary number is especially good, for the brief time you have been in the field and the competition; think you ought to feel very proud. I like HORTICULTURE; there is a something superior and refining about it that makes me feel proud of my profession.

With best regards and good health,

Sincerely,

Kansas City, SAM MURRAY.

NEW YORK.

The anniversary number of HORTICULTURE is admirable. May it go on forever—each anniversary showing as great gains in all that goes to make such a journal of value to the trade.

Sincerely yours,

Buffalo, JOHN F. COWELL.

OHIO.

You are doing well, my boy. Keep up the good work and you may yet wear wooden shoes.

With best wishes, Yours,

Toledo, GEO. A. HEINL.

ONTARIO.

A credit to the profession, that makes such an inspiration possible, and a credit to the art and talent of which it is an expression.

Sincerely, H. H. GROFF.

PENNSYLVANIA.

HORTICULTURE'S anniversary number is certainly fine and I want to congratulate you on your success. With best wishes, believe me,

Sincerely,

Philadelphia, A. B. CARTLEDGE.

RHODE ISLAND.

The best yet, certainly a very creditable paper. Keep up the good work.

Yours truly,

Providence, RENNIE.

WISCONSIN.

The anniversary number of HORTICULTURE is certainly the highest type of scientifically conducted study of modern horticulture and I heartily congratulate you on its issue. Its value to the trade cannot be too highly appreciated. It is one of the most prominent educators, deserving great credit for elevating, by preaching the doctrines of the noblest of all arts that the world possesses, the art from which it derives its name.

Yours very truly,

Milwaukee, A. KLOKNER.

NEWS OF THE CLUBS AND SOCIETIES

NEWPORT HORTICULTURAL SOCIETY.

The sixteenth annual meeting of the Newport Horticultural Society was held Tuesday evening, Dec. 11, in Mercury Hall. President Alexander MacLellan occupied the chair. The occasion attracted one of the largest and most representative gatherings of local horticulturists seen in the hall in years.

The reports of the officers for the year upon being read were received as exceedingly satisfactory. The finances are in a better condition than last year, while the work accomplished compared very favorably with that of the years preceding. The report of the recording secretary showed a noticeable falling off in the attendance of members at meetings, one of the causes being the changing of the evening of meeting, the members not yet being fully reconciled to the change.

A committee was appointed to go to work on the proposed memorial to the late Congressman Adams of Wisconsin, who in his life time accomplished so much for the cause of advanced horticulture; this committee will find a generous response from members of the society and others in the furtherance of the object in view. Bruce Butterton was elected a delegate to attend the meeting of the Federation of Societies for Rural Progress. The next meeting of importance of the latter organization will be held in this city early in the new year.

Immediately after the disposition of the business already referred to the election of officers was proceeded with, resulting as follows:

President, Bruce Butterton; first vice-president, Samuel Speers; second vice-president, James Robertson; recording secretary, David McIntosh; financial secretary, Joseph Gibson; treasurer, Col. A. K. McMahon; sergeant-at-arms, Wm. F. Smith; executive committee, Alexander MacLellan, Dr. A. J. Anderson, Wm. J. Matson, Stewart Ritchie, Andrew Christensen, James J. Sullivan, John T. Allen, Wm. F. Smith, John W. Gibson; auditors, Thomas B. Connolly, W. S. Sisson, Wm. H. Young.

After the election of officers it was unanimously voted to hold a ball on January 9, and a committee made up as follows was appointed to make all arrangements: John T. Allen, Daniel Coughlan, Thomas B. Connolly, Robert A. Smith, Bruce Butterton, M. Anthony, Alexander Fraser. The members enjoyed themselves until a rather late hour in a social session, when refreshments were served by a committee appointed for that purpose at a previous meeting. Mr. MacLellan, the retiring president, declined re-election. Walter Mott was a noticeable visitor during the evening. D. M.

ELBERON HORTICULTURAL SOCIETY.

A large and most interesting meeting by the Elberon Horticultural Society was held on Monday, 17th. The

main feature was an able paper read by Chas. H. Totty on chrysanthemum culture. The paper touched on every point conceivable. It was a treat enjoyed very much by all. A vote of thanks was extended to Mr. Totty.

The following flowers and vegetables were staged by the following exhibitors: Mr. Peter Murray showed a fine Begonia Glorie de Lorraine; Mr. A. Bauer a beautiful bunch of stevias; Mr. James Kennedy a fine bunch of Paper White narcissus; while Mr. Henry Wood showed a fine orange tree in fruit; Mr. A. Grieb violets and leek; and Fred Wm. Dettlinger celery and cauliflower; Mr. Robertson poinsettas and mushrooms and asparagus.

All these fine exhibits were scored above the general average, and were all judged by able and experienced men. After remarks by nearly all the members present, the society then adjourned.

FRED WM. DETTLINGER,
Asst. Secy.

ST. LOUIS FLORISTS' CLUB.

Our local club held its regular monthly meeting on last Thursday afternoon. The December meeting is always poorly attended owing to the members being busy with holiday preparations. Chairman Smith of the Board of Trustees reported that a new meeting place had been engaged in the large Burlington building, but no exhibitions could be held there. It was then decided to hold these in some other hall where the public could be invited.

The flower show committee, through its chairman, Frank A. Weber, reported that the guarantee fund had reached \$2500 to date, with subscriptions coming in daily from the various business men in the city. It is hoped to make the list grow to \$7000 by next meeting and by the February meeting to complete the fund of \$10,000.

Harry L. Goodman of Chicago was present and was called upon for a few remarks. Mr. Goodman is selling pulverized manure for the Union stock yards and demonstrated his goods to the members.

G. H. Pring, who has charge of the big orchid houses at Shaw's Garden, read an essay on orchid culture, and Treasurer A. J. Bentzen read one on growing cyclamens; both were well received and were extended a vote of thanks. The treasurer's report showed a goodly balance in his hands. The next meeting will be held in the new hall on January 10 at 2 o'clock.

LENOX HORTICULTURAL SOCIETY.

The regular meeting of the Lenox Horticultural Society was held December 15th, President F. Heeremans presiding. It was decided to hold three exhibitions this year: rose and strawberry show in June, annual and perennial show in August, and the annual chrysanthemum show in October. All committees for 1907 were appointed, viz., employment, essay, entertainment, schedule; and judges for plants and indoor flowers, herbaceous plants and out-door flowers and vegetables.

GEORGE FOULSHAM, Sec'y.

MORRIS COUNTY GARDENERS' AND FLORISTS' SOCIETY.

Morris Co. (N. J.) Gardeners' and Florists' Society meeting for December was a well attended one. It was the occasion of our annual election of officers and we wanted to hear Mr. Totty talk on the new chrysanthemum. The election resulted as follows: president, Richard Vince; vice-president, Percy Herbert; secretary, E. Reagan; treasurer, Wm. Duckham. Executive committee are as follows: A. Herrington, A. McKendry, Thos. Stokes, J. Heeremans, A. R. Kennedy, Ernest Wild, C. H. Totty, Alex. Brown, O. Koch, R. M. Schultz, Wm. Mulmichel and H. B. Vyse. The retiring president J. Heeremans, received a rising vote of thanks for his efficient services during his two terms. The newly elected officers accepted the responsibilities of office in neat speeches and each promised to do his best. An unusual amount of good fellowship existed, and everybody seemed satisfied. Three new members were elected. After preparations for the 11th annual smoker were made, Mr. Totty told us of the new chrysanthemums and how they showed up at the exhibitions this fall. He spoke of Miss Clay Frick (White Duckham) as the best in the whites and Miriam Hankey the same in the pinks. The stem, foliage, and flower, together with their shipping qualities, should make them popular for a long time. Mrs. Geo. Hunt, Mrs. Henry Barnes, Kathleen Stoop, Mrs. A. T. Miller, A. R. Lee, Lady Leonard and May Godfrey were able to work out their own salvation if given a chance. The new single varieties he believes have a future being artistic, decorative, and relieving. The new French varieties came in for consideration, Prest. Loubet, Sergeant Levy and Mme. L. H. Cochet were amongst those mentioned. Mr. Elmer D. Smith's efforts as a hybridizer received high praise, and many of his introductions were recommended. The speaker received a hearty vote of thanks for his able effort after he had answered many questions.

Wm. Duckham, A. Herrington, C. H. Totty and R. M. Schultz were chosen a committee on the "smoker" which takes place January 9th next. John E. Haines sent new carnations, Imperial and Pink Imperial, to be exhibited at the meeting. Pink Imperial showed up fine and received a certificate of merit. Imperial suffered in transit and was requested to be shown again.

Our treasurer, Wm. Charlton, has been ill for a long time and the deepest sympathy is felt for him. He has been treasurer for eleven years, able, energetic, and faithful. He has declined to be a candidate and it will be hard to fill his place. E. REAGAN.

COLUMBUS FLORISTS' CLUB.

The regular meeting of our club for the month, took place last Tuesday evening. At this meeting the first of what will be a series of plant and flower exhibitions, to be held at each meeting until May next, were begun. M. B. Faxon had previously offered, as a special award for the best plant, a

year's subscription to HORTICULTURE; and this price was taken by the Fifth Avenue Floral Company, for a very finely grown Gloire de Lorraine begonia. At this meeting the plan of awarding points, to every exhibitor was commenced; and the Fifth Avenue Floral Company received 20 points for their begonia; John H. Williams 15 points for a fine Tarrytown fern; and Sherman Stephens 15 points for a Jerusalem cherry. The points awarded each meeting night, will be carefully kept account of; and at the end of the season, three prizes will be awarded to the winners of the largest point totals, as follows: \$5.00, \$3.00, and \$2.00. For the next meeting M. B. Faxon offered, the special prize of a year's subscription to HORTICULTURE to the member bringing in the best six carnations. Walter Buller was elected an active member. There was a great amount of routine business to be gone through, and it was a very late hour when the meeting finally adjourned. Amongst other matters vice-president Currie reported that the entry fees, received at the recent chrysanthemum show, paid one-third of the expenses. The committee on advancing the annual dues, advised leaving them as they are for the present at least. At the close Mrs. M. B. Faxon announced that a lunch had been prepared for the members and friends; and so a long evening ended most pleasantly. As the next regular meeting of the club comes December 25th; it was voted to postpone same to January 8, 1907.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

One hundred and ten members of the Gardeners' and Florists' Club turned out on last Tuesday evening to listen to a very inspiring and poetical paper by W. H. Wyman on The Craft and the Craftsman. Mr. Wyman held the close attention of his audience and his paper received much enthusiastic comment. The proposed change in the by-laws in reference to nomination of officers was defeated by a very close vote, lacking two votes of the necessary two-thirds. The secretary's report showed that there had been 125 new members added to the roll during the year and that the average attendance at the meetings had been 118. The landscape study class meets twice a week, with a membership of sixty students. Action was taken favoring an increased salary for the secretary, and recommending that essays and lectures be printed in permanent form.

A question concerning the relative merits of Dutch and English budded roses for garden culture brought out a lively discussion. Mr. Wyman championing the Dutch roses as being the better bloomers and good for three or four years' service, and Messrs. Craig, Duncan, Finlayson and others condemning them as the worst thing ever introduced, dear at any price.

On the exhibition table were vases of variegated Lawson, pink Lawson and seedling Venus from H. A. Stevens Co. Honorable mention was given to pink Lawson. Venus is a pleasing light pink, a little brighter than Enchantress. A vote of thanks was given S. J. Goddard for Princess of Wales violets and A. Downie for Begonia floride de Lorraine.

NATIONAL CONGRESS OF HORTICULTURE.

It is a world survey and we do not regard it essential to ascertain exact locations, to establish exact location. He may have a perfect record of the ship's course, know to a nicety the force of the wind and of the ocean currents, the number of revolutions of the propeller, and be able to tell just where the ship ought to be, but experience has taught that in addition to this he must by observations ascertain just where it is. In like way those who assay to explore the ocean of the unknown should occasionally make observations and comparisons to ascertain just where they are. We can learn something of this through a more physical exhibition of what has been and can be accomplished, but it is far more important that we come to an exact knowledge of the laws through and by which the results are obtained. This can only come through a conference between those who are studying these laws, for what seems to be a truth to one and under a certain set of conditions the experience of another and under other conditions may show what is only a seeming truth. It is well then for all those who are interested in any particular line of study to meet occasionally for council that they may ascertain how much of what we think we know is actually so, to ascertain just how far into the unknown we have sailed. To this end the National Council of Horticulture have thought it wise to call for the meeting of a Congress of the Horticulturists of the world to assemble at Jamestown, Virginia, during the latter part of the exhibition to be held there in 1907 to commemorate the 400th Anniversary of the first permanent English settlement in what is now the United States. The exact date of the meeting and the formal programme has not been decided upon, but will be announced later, but in the meantime we ask all who are interested in progressive horticulture to plan to attend the Congress and communicate with Mr. Irish, Missouri Botanical Garden, St. Louis, Missouri, U. S. A., as to what definite subject should be discussed. W. W. TRACY

AMERICAN CARNATION SOCIETY.

Everything is in readiness for the meeting in Toronto, Ont., Jan. 23d and 24th excepting the flowers for the exhibition and the attendance. The exhibit ought to be notable as the premiums offered are good and large and lots of them. The flowers, as soon as they enter Canada will have special care from the express company providing the Society label is used. This label can be procured by applying to the Secretary and it will also pass the exhibits through the customs without any delay or annoyance.

The attendance ought to be immense as the papers to be read and the discussions that will come up are unusually interesting. The rate of one and a third fare will apply to all of the country covered by the Central, Trunk Line, New England and Canadian Passenger Associations.

The premium list can be had by applying to the Secretary and in this connection he wants to publicly apologize to Wm. Scott of Buffalo, N.

Y. for a year. The first meeting of the National Council of Horticulture will be held in Buffalo, N. Y., on Jan. 1st, 1907. To reach the Secretary send exhibitors' list to the Secretary of the Society, W. W. Tracy, and get entry blanks and information needed in time to get an entry in before Jan. 16th.

JNO. H. DENLOP, President
ALBERT M. HERR, Secretary
Lancaster, Pa.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Secretary-elect P. J. Hauswirth has tendered to President Kasting his resignation as a director of the Society of American Florists and Ornamental Horticulturists and same has been accepted. President Kasting has appointed Theodore Wirth of Minneapolis to serve as a director for Mr. Hauswirth's unexpired term of two years.

Department of Plant Registration.

Central Park Nursery, Topeka, Kansas, submits for registration canna Magnificent. Foliage green; bloom rich scarlet of extraordinary size; height 4 feet.

WM. J. STEWART, Secretary.

A VISIT TO MADBURY, N. H.

A right jolly party of 23 "Skidoo Florists" stores of Boston left on the 1.15 train last Thursday, Dec. 13, for Madbury, N. H., at the invitation of W. H. Elliott to visit his "Rose Farm" at the above place. Various refreshments were served, and a good social time was had in our special car on the trip. Arriving at the greenhouses Mr. Elliott headed the crowd and piloted them through that immense house viewing with care a beautiful bench of Safrano roses, followed by Bon Silene, Cusin, Wellesley, Richmond, Killarney and Chatenay. I never saw a more beautiful or healthier lot of plants; the house and contents were certainly in perfection. Richmond and Killarney especially called forth words of praise. Two hours were spent pleasantly and intelligently in this marvelous house. Then we all went through one of those grand old New Hampshire homes, over 100 years old, viewed the stock farm with a fine lot of cattle, again walking back to the greenhouses and thence to the depot, and we were soon bound for Boston, refreshments again being served on the car. At Rockingham Junction, Mr. Palmer in a few well chosen words voiced the thanks and pleasure of the visitors, and Mr. Elliott was given three cheers. The excursion was voted one of the most successful and interesting afternoons the participants had ever enjoyed.

John McLeod of Medford, Mass., lost about \$150 worth of celery from smoke arising from the explosion of a lamp in his greenhouse.

SEED TRADE TOPICS.

Through the classes in botany in the various high schools and universities of the Province of Ontario, Canada, a few of the more enterprising seedsmen have secured specimens of all of the noxious weeds native to that Province. These have been most carefully pressed and dried, and placed in long narrow frames and hung conspicuously in the stores. The common and botanical name of each weed is given and each specimen occupies a separate compartment, protected from dust and handling, by glass.

It is needless to say that these specimens are a source of interesting and profitable study, not only to the seedsman and his employees, but to the farmers and his customers in general. The specimens if properly preserved have a very natural appearance, and groups of farmers may often be seen in animated discussion of them. As an educator, the idea would seem to commend itself to seedsmen in general and particularly those who make a specialty of grass and field seeds.

Speaking of grass seeds, it may be recalled that it was predicted in these columns many weeks ago that clover was likely to soar to higher figures even than last year. This prediction has already been verified. Starting around five dollars, it has now passed the nine dollar mark, but according to the best authorities it is high enough. Speculation may boost it yet higher, but it is quite as likely to break as to advance, and ultimately lower levels are expected on this crop.

Blue grass is still strong, genuineness Kentucky being about 11c., while the Canadian article is quoted around 6c. per lb. in quantity.

By the way, the question is often asked, even by those in the seed trade, whose education has been more theoretical than practical, what the difference is between Kentucky and Canadian blue grass. Briefly it may be stated that during the heat of summer and particularly during dry spells, the Canadian will usually turn brown, whereas the Kentucky will retain its fine natural color. As blue grass is the basis of all good lawn mixtures, the importance of the variety used becomes evident.

The scramble for onion seed has been temporarily satisfied, but whether there will be enough to go around will depend on the demand. By March first this question will be answered. If onions are low in price as now seems probable, there will be seed enough. If however onions are in good demand and bringing only fair prices, it will be difficult to supply the demand, and prices will advance. Onions will be the barometer. Watch them.

It is worthy of note that those in close touch with present conditions, the large handlers of apples, potatoes, onions, etc., are practically unanimous in the opinion that these commodities are not going to winter well, and that their condition at the present time is about what it should be in February.

THE FREE SEED HEARING.

Walter P. Stokes reports that the hearing given by the House Com-

mittee on Agriculture to parties interested, on Wednesday and Thursday of last week in Washington was very interesting and was productive of some telling points. One of the most effective of these points occurred when a member from Texas inquired sarcastically if they had any resolutions against free seeds from Texas. It so happened that one of the strongest resolutions came from the Growers' Association of Texas and this was promptly produced and read. The gentleman from Texas was very much astonished and kept very still after that. The editor of the Southern Planter made one of the brightest arguments and accused the Southern members of misrepresenting the sentiments of their constituents on the matter. Professor Massey also made a very good speech. Representative Davis of Minnesota was frank enough to acknowledge having purchased from the runners of the department extra supplies over his quota. Mr. Forbes of New York exhibited the remains of a carload of free seeds which had been refused by various voters and were finally burned to get rid of them, somewhere down in Long Island. The probabilities are that a majority of the committee will report to the house against free seeds. It is an open secret that the officials of the department are themselves anxious to get rid of the incubus. Among those present at the hearing were Alexander Forbes of Peter Henderson & Co., N. Y., W. Albee Burpee, Wm. Henry Maule, and Walter P. Stokes of Philadelphia, Henry C. Wood, Richmond, Mr. Wood of Wood, Stubbs & Co., Louisville, Mr. Hatheway representing Crossman Bros., Briggs Bros., and other Rochester interests, F. W. Belgiano of Washington, Mr. Raackhelm, Professor Massey, and Mr. Smith, the secretary for parties interested on the opposition.

OBITUARY.

Alfred F. Conard.

Alfred F. Conard, senior member of the Conard & Jones Co., of West



Grove, Pa., died on the 15th inst., aged 71. Death was due to a stroke of

MONSTER SPIREAS

A late importation just received in extra fine shape, all suitable for 7 and 8 inch pots.

	Per doz.	— 100 —	— 1000 —
Gladstone	\$1.50	\$8.00	\$75.00
Astelboides Floribunda	.70	4.25	40.00
Washington	1.25	7.00	65.00

BERLIN VALLEY

Fine large well rooted crowns from the best grower in Europe.

Per 100,	\$1.25	\$10.75	per 1000
		\$25.00	per case of 2500

We are one of the largest valley importers in the U. S.

Write today for our Florists' combination order sheet and catalogue of flower seeds.

HENRY F. MICHELL CO.

1018 Market St., PHILA., PA.

apoplexy. Mr. Conard was a Quaker of the old school, and spent all his life in Chester County, Pa. With Charles Dingee he was one of the pioneers in the mail trade in young roses and other plants. Some forty years ago they started the business of sending young roses through the mails at low prices, and in the course of time the business grew to gigantic proportions, until their customers numbered hundreds of thousands located in all parts of the world. He was one of the real pioneers in making the wilderness blossom like the rose reaching the most remote and inaccessible parts with their lovely products. That fact is the true monument to the memory of Alfred F. Conard. Many have followed in the same blazed trail but his firm was the real pioneer. Sixteen years ago through family differences Mr. Conard retired from the Dingee & Conard Co. and started the Conard & Jones Co. which has proved very successful on the same lines and has achieved an enviable reputation, especially in the improvement of the canna. Mrs. Conard survives the deceased but he leaves no children. He was a member of the Orthodox Friends.

A DESIRABLE HOLIDAY GIFT FOR YOUR EMPLOYEE.

There can be no more useful and appropriate Holiday present than a subscription to HORTICULTURE. The more he reads HORTICULTURE the better service he will render you. If you want to give five or more we will be glad to make a special discount, on application.

Other Useful Holiday Gifts.

- The Dahlia. By L. K. Peacock. Price, 30 cents.
- The American Carnation. C. W. Ward. Price, \$3.50.
- Manual of the Trees of North America. C. S. Sargent. Price, \$6.00.
- The First County Park System. F. W. Kelsey. Price, \$1.25.

SOW NOW Johnson's GIANT FLOWERING VERBENA SEED NEW CROP READY

Florists and Professional Gardeners pronounce this new crop of **GIANT Flowering Verbena** the finest on the market. The extraordinary size of the flowers, together with brilliant colors and distinctive markings, recommend this superior strain to the most critical growers. We offer new crop seed in separate colors as follow:

GIANT WHITE, PINK, SCARLET, PURPLE and YELLOW Large Trade Pkt. (1000 seeds) 25c 5000 seeds \$1.00 per ounce \$1.25. **GIANT BRILLIANT MIXED**—Large Trade Pkt. 1000 seeds 20c 5000 seeds 75c per ounce \$1.00

We can interest you with our **Surplus Dutch Bulbs** write at once.

JOHNSON SEED COMPANY, - 217 Market Street, Philadelphia, Pa.,
Herbert W. Johnson of the late firm of Johnson & Stokes, President

STATEMENT OF PLANT IMPORTS.

There were entered at the port of New York during the week ending December 11 to 17, 1906, the following plants, etc.:

From Holland:—H. F. Darrow, 1 es. plants, 8 es. bulbs; McHutchison & Co., 13 es. plants; Vaughan's Seed Store, 14 es. roots; Ralph M. Ward & Co., 4 es. plants; sundry forwarders, 9 es. plants, 18 es. flower roots.

From Germany:—H. F. Darrow, 158 es. lily of the valley; McHutchison & Co., 21 es. do.; F. R. Pierson Co., 39 es. do.; Julius Roehrs Co., 49 es. do.; general order, 191 es. do.

From England:—H. F. Darrow, 3 es. trees; L. Dupuy, 10 es. do.; sundry forwarders, 13 es. trees, 2 es. plants, 1 es. rose trees.

From France:—H. F. Darrow, 218 pkgs. seed; August Rolker & Sons, 24 es. plants; Vaughan's Seed Store, 120 pkgs. seed; sundry forwarders, 9 es. plants, 1 pkg. trees.

In selecting your bedding stock for next year do not forget those two grand begonias, Duke de Zeppelin and Lafayette. Among the singles the Bertini varieties are unrivalled. Liliput, Mandrot and Worthiana are the most distinct.

Edward Fenn of Terryville, Conn., is reported seriously ill.

THOS. J. GREY & CO.

Fresh Flower, Farm and Garden Seeds, New Mushroom Spawn, Extra quality—French, Japan and Dutch Bulbs. A full line of Agricultural Machinery and Repairs

32 South Market St., Boston
SEND FOR CATALOGUE

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

QUALITY SEEDS BULBS PLANTS
SEND FOR CATALOGUE.
ARTHUR T. BODDINGTON
342 West 14th St., New York.

MAKERS OF PURE CULTURE TISSUE
COLUMBIA, ALASKA, BOHEMIA
MUSHROOM SPAWN
Fresh Spawn Always on hand.
WRITE FOR PRICES.
COCHRAN MUSHROOM & SPAWN CO.
911 CHEMICAL BLDG. ST. LOUIS, MO

Thorburn's Bulbs

LILY OF THE VALLEY PIPS

Just arrived and are, as usual, the finest imported into this market no matter under what name. Send for prices.

SPIRAEA		per 100
Japonica—Extra Strong Clumps	.....	\$3.50
Astilboides Floribunda	.....	4.00
Compacta Multiflora	.....	4.00
Gleditsia	.....	6.50

LILIUM LONGIFLORUM		per 1000	per 100
6 to 8 inches	.....	\$27.00	\$3.00
7 to 9 inches	.....	45.00	5.00
Multiflorum, 6 to 8 inches	.....	25.00	3.00
7 to 9 "	.....	50.00	5.50

J. M. THORBURN & CO.
33 Barclay St., through to 38 Park Place
NEW YORK

LILY OF THE VALLEY
"NONPAREIL"
The finest in the country. Just what you have been looking for
\$18.00 per 1000
BRIDGEMAN'S SEED WAREHOUSE
RICKARDS BROS. Props.
37 East 19th St., NEW YORK CITY

Burpee's Seeds
PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

For Prompt Shipment—Just Imported.
SPIRAEA AND LILY OF THE VALLEY
LILIUM Auratum, Album, Roseum, Rubrum.
Joseph Breck & Sons Corp.
47-54 NO. MARKET ST., BOSTON, MASS

RAWSON'S HIGH GRADE SEEDS
for the most critical
GARDENER, FARMER
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Catalogues mailed free
W. W. RAWSON & CO.
5 Union St., ECSTON 17.1

MUSHROOM SPAWN

We have just received a consignment of English Milltrack Spawn in excellent condition.

Per 100 Lbs., \$7.50.

PURE CULTURE SPAWN

Made in America.

Per 100 Bricks, \$14.00.

R. & J. Farquhar & Co

6 and 7 South Market St., BOSTON.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Established 1848
Wm. Elliott & Sons
201 Fulton St., NEW YORK
Seeds, Bulbs, Fertilizers
and
Horticultural Sundries
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Vick's Bulbs GIVE SATISFACTION
Hyacinths, Tulips, Crocus, Daffodils, Lilies. A large and varied assortment. Send for our Catalogue.
James Vick's Sons,
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CAULIFLOWER SEED
CABBAGE SEED
HJALMAR HARTMANN & CO.,
12 Stormgade,
COPENHAGEN, DENMARK.

Comet Tomato
Those who force tomatoes should give "Comet" a trial. This variety has been the talk of gardeners around Boston the past season. Those who have seen it growing declare there's nothing to compare with it.
Seed, \$5.00 per oz. Trade packet \$1.00.
WILLIAM SIM, Clifftondale, Mass.

JAPANESE
THE YOKOHAMA NURSERY CO.
31 BARCLAY STR. NEW YORK.
LILIES
PLANTS
BAMBOO STAKES

IMPERIAL and PINK IMPERIAL CARNATIONS

You Cannot Afford to be Without these Two Excellent Varieties

Price \$12.00 per 100; \$100.00 per 1000, 250 at 1000 rates, a discount allowed when cash accompanies the order

A. J. CUTTMAN,

The Wholesale Florist of New York
43 WEST 28TH STREET

JOHN E. HAINES,

BETHLEHEM, PA.

ANNOUNCEMENT

We have opened a **WHOLESALE COMMISSION FLORISTS' DEPARTMENT** in addition to our regular wholesale **EVERGREENS** and **FLORISTS' SUPPLIES**

CONSIGNMENTS SOLICITED

HENRY M. ROBINSON & CO., 8, 11 and 15 Province St. **Boston, Mass.**
and 9 Chapman Place,

See our Greens Advertisement on page 705.

L. D. Telephone, Main 2618.

THE FLORISTS' CHRISTMAS.

Once more it is "clear the decks", for the greatest annual trade skirmish. The time has arrived when the best must be made of materials and circumstances, and persistent hustling accompanied by a good natured appreciation of the occasion and its requirements is all-powerful and necessary to success. Every indication points towards a record-breaking Christmas and if the volume of business done is disappointing to individuals, competition must be given due allowance. It is in the retail trade as in the growers', solely a question of the survival of the fittest. Here and there a few buyers remain who will overlook or tolerate the indifferent attention or inferior goods offered by some but the florist who keeps up with or ahead of the times in methods and material is sure to be able to satisfy normal ambitions. There is no florists' store no matter its location which should not have its gala dress on, so to speak, for this occasion. Many an undecided mind is often ruled by the pleased eye. It is unfair to expect the people to be purchasers and designers too.

A tremendous trade will this year be done in Christmas greens. There are a few florists who heretofore have ignored this class of trade but such was at all times unwise for the one reason, if no other, that the people will have Christmas greens and

where they purchase them they are liable to buy other things if such appeal to their inclinations. A good stock of a nice variety of green goods should be kept and under the jurisdiction of a special man who will offer them neatly and be conversant with all the requirements. Except where specifically ordered otherwise all orders for wreaths and greenery should be delivered a few days before Christmas. The early hanging of wreaths will not only relieve the crush but will also do much to induce others to buy and do likewise. As in previous years a large variety of wreaths are offered such as boxwood, princess pine, laurel and the several combinations, and especially the holly wreaths the best of which are made heavy, both sides, with clusters of the berries of *Ilex verticillatus* at top and medium bow of ribbon. These sell all the way from \$1.00 to \$3.00—special large sizes up to \$8.00, but it is not in the temporary victory of obtaining high prices where one shows keen business acumen and in the long run 'tis better to sell one hundred wreaths at \$1.00 each to fifty different people than fifty wreaths at \$2.00 each to twenty-five people. Send a boy or two out with cheap circulars to reach the masses. In energetic attempts, results the busy mart. It seems a pity that our numerous nurserymen fail to see the importance of supplying the market with well-shaped Norway spruce—the smaller sizes we mean; they are far above all others for the purposes required of a small Christmas tree and are easy to grow and make shapely.

A careful stockman is worth considerable where an extensive cut flower trade is done. Very considerable loss is suffered from ill-kept or misapplied stock where there is no watchful eye; fine flowers are easily damaged or the best customer gets the poorest. The matter of greens for cut-flower boxes is a troublesome item. Almost all flower buyers whilst demanding plenty of greens do not consider them in a monetary value—but they do cost the retailer lots of money and many a handful of expen-

sive fern is unnecessarily put into a cheap box of flowers. Except where specified very little greens need be put in; a few common ferns, a sprig of holly or leucothoe, with a bit of adiantum or asparagus to finish off will suffice. We believe in putting a small cushion of tissue paper at the head of most boxes both to protect the first flowers and to elevate them. There is lots to learn in the arranging of a box of flowers—but safe arrival at destination is better than nicety in the store.

Plants should have foliage and pots perfectly clean. There are a few novelties in the way of accessories which may be obtained from HORTICULTURE'S advertisers. A few prominent florists have had special vases made to harmonize with certain plants; for example, ardisia in green vase with red berries worked on the vase. There is a disposition to go more heavily into special vases instead of baskets. Then there are some art boxes with "Kate Greenaway" designs on the lid.

The people want higher colors for Christmas—the pink and white belong to Eastertide—but even now anything and everything may be sold if it is presented right and offered at sensible prices.

J. IVERA DONLAN.

A LIBEL ON KIRKALDY.

It was gravely reported by a contemporary last week that his Satanic Majesty was dead and buried in Kirkaldy. That is interesting if true. We have made careful inquiry but have been unable to confirm the rumor. The prevailing Christmas spirit may have given rise to this canard, but judging from the goings-on in Pittsburgh, the sand in the sugar, the ill taste of Job, the backwardness of the carnations, the practical behavior of the express companies, the number of splits from the finest ball that ever went down the alley, the costliness of salt, and various other indications too numerous to mention, we are inclined to believe that "His Nibs" is still doing business. Take no stock in that Kirkaldy proposition.

G. C. W.

LADY GAY

AND

HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druscñki. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

Catalogue mailed on request.

M. H. WALSH

ROSE SPECIALIST

WOODS HOLE, MASS.

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. *Write for Samples.* **E. A. BEAVEN, Evergreen, Ala.**

NEWS NOTES.

The Fuller Floral Co. opened for business on December 12 in Charlotte, Mich.

Louis Coleman has opened a florists' store at 241 Elm street, Westfield, Mass.

George W. Beears of Reading, Pa., has opened a new store at 53 S. Seventh street.

R. L. Gonsalvos of Waltham, Mass., opened his new salesroom at 100 Chestnut street on December 8.

Henry Konzelman, formerly with George & Alan, has opened a retail store on McMillan street, Walnut Hills, Cincinnati, O.

The Alpha Floral Co. took possession of their new and elegant quarters at 1105 Walnut street, Kansas City, Mo., on December 8.

The September Bulletin issued by the Massachusetts Board of Agriculture contains a valuable article on cranberry culture by Lucian J. Fosdick. The selection of land, setting of the vines and the work that should tend to a successful crop are clearly described. A request addressed to J. Lewis Ellsworth, State House, Boston, will secure the pamphlet free of charge.

Prominent educators and practical workers discussed school gardens at Horticultural Hall, Boston, on the afternoon of December 15, under the auspices of the Massachusetts Horticultural Society. G. H. Martin, secretary of the State Board of Education thought that a school garden would be the most effective laboratory an elementary or high school could have. Prof. Waugh of Massachusetts Agricultural College and W. A. Baldwin, principal of the normal school at Hyannis touched upon the cooperation of normal schools and agricultural colleges for the proper training of teachers. Prof. Parsons, head of the school farms in New York, stated that it was almost impossible to find teachers qualified for the work.

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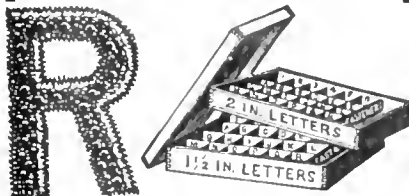
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long stem, good flowers; for delivery NOW and until Christmas in almost unlimited quantity and exceptionally

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Beautiful Carnations. Violets

Superb Illustrated Supply Catalogue just
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From 40 to 60 Growers

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO December 18	ST. LOUIS November 12	PHILA. December 18	BOSTON December 20
ROSES				
Am. Beauty, Fan. & Sp.	50.00 to 60.00	20.00 to 25.00	60.00 to 75.00	50.00 to 75.00
" Extra.....	25.00 to 35.00	12.50 to 15.00	40.00 to 50.00	35.00 to 50.00
" No. 1.....	10.00 to 15.00	8.00 to 10.00	30.00 to 35.00	12.00 to 25.00
" Lower grades.....	6.00 to 8.00	4.00 to 6.00	15.00 to 25.00	8.00 to 12.00
Bride, Maid, G. Iden Gate, F. & S.	14.00 to 15.00	5.00 to 6.00	12.00 to 15.00	12.00 to 16.00
" " Ordinary.....	4.00 to 6.00	2.00 to 4.00	6.00 to 10.00	4.00 to 8.00
Liberty, Richmond, Fan & Sp.	12.00 to 15.00	5.00 to 6.00	18.00 to 20.00	16.00 to 25.00
" " Ordinary.....	4.00 to 6.00	2.00 to 4.00	6.00 to 12.00	6.00 to 10.00
Chatenay, Fan. & Sp.	15.00 to 18.00	5.00 to 8.00	12.00 to 15.00	12.00 to 16.00
" " Ordinary.....	6.00 to 8.00	2.00 to 4.00	6.00 to 8.00	4.00 to 8.00
Killarney, Fan. & Sp.	15.00 to 18.00	..... to	12.00 to 15.00	8.00 to 16.00
" " Ordinary.....	6.00 to 8.00	..... to	6.00 to 8.00	4.00 to 8.00
CARNATIONS				
Fancy.....	6.00 to 8.00	2.00 to 3.00	8.00 to 10.00	4.00 to 6.00
Ordinary.....	4.00 to 5.00	1.50 to 2.00	4.00 to 6.00	2.00 to 4.00
MISCELLANEOUS				
Chrysanthemums, Fancy.....	..... to 35.00	5.00 to 40.00	25.00 to 35.00	8.00 to 12.00
" Ordinary.....	..... to .....	..... to .....	..... to	6.00 to 8.00
Cattleyas.....	50.00 to .....	..... to .....	..... to 75.00	50.00 to 75.00
Lilies.....	15.00 to 18.00	..... to	15.00 to	12.00 to 16.00
Violets.....	1.50 to 2.00	..... to	1.00 to 1.50	1.00 to 1.25
Gardenias.....	..... to .....	..... to .....	..... to 75.00	..... to
Lily of the Valley.....	4.00 to 5.00	3.00 to 4.00	3.00 to 5.00	3.00 to 5.00
Mignonette.....	3.00 to 4.00	..... to	3.00 to 4.00	1.00 to 2.00
Paper White, Roman Hy.....	3.00 to 4.00	..... to	3.00 to 4.00	2.00 to 3.00
Adiantum Cuneatum.....	1.00 to	1.00 to 1.50	.75 to 1.00	.50 to 1.00
" Croweatum.....	..... to 1.50	1.00 to 1.50	..... to 1.50	1.00 to 1.50
Smilax.....	..... to 12.50	..... to 12.50	12.50 to 15.00	12.00 to 16.00
Asparagus Plumosus, strings..... to 50.00	25.00 to 50.00 to 50.00 to 50.00
" " & Sprengeri bunches	35.00 to 50.00	25.00 to 50.00 to 50.00	20.00 to 50.00

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New Crop Galax Leaves

SEND ME YOUR ORDERS

G. W. CALDWELL, Manager

CALAX, VIRGINIA

(SUCCESSOR TO BLAIR GROCERY CO.)

VICTORY HAS MADE GOOD

CUTTMAN & WEBER
The Wholesale Florist
of New York
43 W. 28 St.
Grower
Lynbrook L. I. N. Y.

Place your orders early for rooted cuttings. Prices \$6 per 100, \$50.00 per 1000. DISCOUNT FOR CASH WITH ORDER

CUT FLOWER MARKET REPORTS

BOSTON The present week is a very dull period in the cut flower market. The wholesalers are busy with holly and green mostly and special flower calls are conspicuously absent. Receipts are very light just about sufficient for the regular daily or semi-weekly orders. Prices are strong on all lines, anticipatory of a scarcity. Undoubtedly there is more or less storing being indulged in by the growers but the general impression is that there will be no overstock of really desirable stock in colors.

Market conditions are improving daily. Carnations have been gaining considerable as to quantity coming in, and prices have held firm with a slight increase the past week. As for roses, choice stock, very few are to be had, while ordinary there are always enough. Narcissi and Roman hyacinths abundant, lily of the valley rather scarce, violets not plentiful and demand at times heavy, chrysanthemums still to be had, but don't move very freely. Holly, mistletoe and other Christmas trees and plants are moving out at a good pace. Everyone seems to be on a hustle, and a good holiday business is looked for.

CINCINNATI The usual dull spell preceding the holidays has been very pronounced during the past week. Stock has also slacked up in a surprising manner and it is a question whether all of the growers are off crop or are beginning this early to hold back for Christmas. Those who have made the rounds among the growers say that roses and carnations will be exceedingly scarce. Violets are quite plentiful and are selling fairly well. In bulbous stock Roman hyacinths and Paper White narcissi are moving slowly and lily of the valley is in demand. The market is well supplied with holly of a medium grade, but really first-class stock is scarce. Prices are firm on all Christmas greens.

COLUMBUS For a week it has been rainy and disagreeable every day and there has only been a fair business. The truth of the matter is, that prices have worked up so much, owing to the continually advancing rates of the growers, that over-the-counter trade is conspicuous by its absence. When carnations must be retailed up to \$2.00 a dozen and roses and other stock in proportion you cannot expect to do an enormous holiday business. So it bids fair to be this year; of course a great number of orders will be filled, no matter what the price; but the great run of transient trade, which if at all must always be at popular prices, will be lacking. Of Christmas greens there is a good supply of everything needed, and prices

about as usual. It looks as if Christmas bells would again have a great sale. Plants of all kinds are plenty, and good.

INDIANAPOLIS The past week has been a very good one, almost everything having been used up. The weather has been very changeable and it has been cloudy for some time, which will no doubt affect Christmas crops. The demand for roses has increased, the supply and quality both being good. Carnations are in unusually heavy demand. Enchantress is of grand quality, is largely grown, and a very popular variety. A good supply of paper whites, Roman hyacinths and lily of the valley are coming in, while Harrisii and callas are quite scarce. The green goods men have large orders for holly, laurel, wreaths and lycopodium, all reporting an increase over last year. Wholesalers as well as retailers are counting on the largest Christmas trade they have ever done.

LOUISVILLE Better conditions could not be expected than prevailed last week. Carnations had an exceptionally good demand, with supply and quality good. Roses have been excellent with a steady call and no lack of stock. There were some inquiries for lily of the valley and violets, which were met with stock of good quality. There is every indication of a splendid holiday business.

NEWPORT The market is active and well supplied with good roses, carnations and violets at prices a little advanced on late quotations. Plants are coming in large quantities for the Christmas trade, which promises to be very brisk and profitable. Greens are not in over supply. Christmas trees are hard to obtain at reasonable prices to the retail dealers, but there may be an ease-up on them before it is too late. From the sample of Lorraine begonias seen customers will have some good ones to pick from; the price will be a little higher than last year.

NEW YORK This week is characterized by the usual quietude that prevails

preceding Christmas. Supplies of roses are light and carnations are by no means plentiful. There are fewer Beauties in the market now than there has been for years, and it is probable that a few days will not produce many more so it seems that this rose will sell at record prices on Monday next. A continuation of the present clear weather will bring a sufficient quantity of smaller roses and carnations though there should be no surplus if trade is of last year's proportions. The violet crop is such that no apprehension need be felt in taking orders; they can be filled and with fine stock. Indications point to a full supply of poinsettias, Harrisii, narcissi, hyacinths, stoyia and callas, with green stock on call. Cattleyas and gardenias will be in request as usual and any concession in prices will mean poor stock.

PHILADELPHIA Last week opened up in lively fashion, but did not keep the pace. Friday and Saturday were away off in general volume of business. Roses are plentiful and good. If the bright weather holds there will be plenty to go around for Christmas. The figures are as high now as market will safely stand and with apparently very little kept over stock. Carnations are rather scarce. Orchids are in good demand with supplies a little on the scarce side, especially in cypripediums, on account of their being a later crop this year. Sweet peas are improving both in cut and quality. Poinsettias are too plentiful this year. More people are growing poinsettias in quantity in all sections and of course this affects the shipping trade. Locally it is as popular as ever. Bourdardia is very good at present and in generous supply. Holly is well-berried this year, but generally it is not quite so dark and glossy as it should be.

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MADISON SQ.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Dec. 15 1906	First Half of Week beginning Dec. 17 1906		Last Half of Week ending Dec. 15 1906	First Half of Week beginning Dec. 17 1906
Roses			Carnations, Ordinary	2.00 to 3.00	2.00 to 3.00
Am. Beauty, fan and sp.	40.00 to 60.00	50.00 to 75.00	Chrysanthemums	..... to 12.00	..... to 12.00
" extra	20.00 to 30.00	20.00 to 40.00	Cattleyas	50.00 to 75.00	50.00 to 75.00
" No. 1	8.00 to 15.00	8.00 to 15.00	Vinlets	.50 to 1.00	.50 to 1.00
" Lower grades	2.00 to 4.00	2.00 to 4.00	Lilies	12.00 to 16.00	12.00 to 16.00
Bride, 'Maid, Golden Gate, fan & sp	12.00 to 25.00	12.00 to 25.00	Gardenias	15.00 to 50.00	15.00 to 50.00
" ordinary	5.00 to 10.00	5.00 to 25.00	Lily of the Valley	2.00 to 4.00	2.00 to 4.00
Liberty, Richmond, fancy & special	12.00 to 25.00	12.00 to 25.00	Pignonette	..... to .....	..... to
" ordinary	5.00 to 10.00	5.00 to 10.00	Paper White, Roman Hy.	2.00 to 3.00	2.00 to 3.00
Chatenay fancy and special	12.00 to 25.00	12.00 to 25.00	Adiantum Cuneatum	..... to 1.00	..... to 1.00
" ordinary	5.00 to 10.00	5.00 to 10.00	" Croweatum	..... to 1.50	..... to 1.50
Kilparoy, fancy and special	12.00 to 25.00	12.00 to 25.00	Smilax	10.00 to 15.00	10.00 to 15.00
" ordinary	5.00 to 10.00	5.00 to 10.00	Asparagus Plumosus, strings	25.00 to 50.00	25.00 to 50.00
Carnations, Fancy	4.00 to 8.00	4.00 to 8.00	" & Spregeri, bunches	15.00 to 35.00	15.00 to 35.00

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WM. STUART ALLEN CO.
Commission Merchants in Cut Flowers
53 WEST 28TH STREET, NEW YORK
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Prompt payments. Give us a trial.

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A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
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Green GALAX LEAVES Bronze

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Metal Designs, Baskets, Wire Work & Novelties
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PLANTS, PALMS and FERNS

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Fresh cut Palmetto & Cycas Palm Leaves, Galax, Lencothoe, Ferns and Mosses. All Decorating Evergreen

Look through the Buyers' Directory
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 will find some good offers there also.

Best Flowers

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ROSES, CARNATIONS
 And all kinds of Seasonable Flowers

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**383-87 ELLICOTT ST.
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Give us a trial. We can please you.

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.
 WE HAVE VERY FINE CUT BOX WOOD.



DAGGER AND FANCY FERNS.

Fresh Northern, \$1.00 per 1000.

LYRATA, the best substitute for Smilax \$7.00 per case.
 Headquarters for all **FLORISTS' SUPPLIES**. Wire Designs,
 Cut Wire, Letters, Immortelles, Cycas Leaves, Wheat
 Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO., 8 & 10 Province St., Boston, Mass.
 Telephone, Main, 2613.



WHOLESALE FLOWER MARKETS. PER 100.

	CINCINNATI December 18		DETROIT December 14		BUFFALO December 18		PITTSBURG December 14	
ROSES								
Am. Beauty, Fan, and Sp.	50.00	to 60.00	100.00	to 100.00	50.00	to 100.00	100.00	to 12.00
" Extra	30.00	to 40.00	20.00	to 20.00	30.00	to 40.00	20.00	to 20.00
" No. 1	15.00	to 20.00	75.00	to 75.00	50.00	to 75.00	50.00	to 60.00
" Lower grades	8.00	to 10.00	10.00	to 10.00	10.00	to 20.00	10.00	to 25.00
Bride, 'Maid, Golden Gate, F. & S.	8.00	to 10.00	12.00	to 18.00	18.00	to 20.00	12.00	to 15.00
" " " Ordinary	4.00	to 5.00	6.00	to 10.00	4.00	to 15.00	8.00	to 10.00
Liberty, Richmond, Fan, & Sp.	10.00	to 12.00	12.00	to 18.00	10.00	to 20.00	15.00	to 20.00
" " " Ordinary	6.00	to 8.00	6.00	to 10.00	6.00	to 8.00	6.00	to 12.00
Chatenay, Fancy	10.00	to 12.00	12.00	to 18.00	10.00	to 15.00	10.00	to 15.00
" " " Ordinary	6.00	to 8.00	6.00	to 10.00	6.00	to 8.00	8.00	to 10.00
Killarney, Fan & Sp.	10.00	to 12.00	12.00	to 18.00	10.00	to 15.00	10.00	to 15.00
" " " Ordinary	6.00	to 8.00	6.00	to 10.00	6.00	to 8.00	8.00	to 10.00
CARNATIONS								
Fancy	5.00	to 6.00	7.00	to 8.00	5.00	to 6.00	8.00	to 10.00
Ordinary	3.00	to 4.00	3.00	to 4.00	3.00	to 5.00	4.00	to 6.00
MISCELLANEOUS								
Chrysanthemums, Fancy	15.00	to 20.00	20.00	to 25.00	8.00	to 10.00	20.00	to 30.00
" " " Ordinary	5.00	to 10.00	10.00	to 15.00	10.00	to 15.00	10.00	to 15.00
Cattleyas	10.00	to 10.00	60.00	to 60.00	10.00	to 10.00	10.00	to 10.00
Lilies	15.00	to 15.00	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Violets	1.00	to 2.00	2.00	to 2.50	2.00	to 3.00	1.25	to 2.00
Gardenias	10.00	to 10.00	4.00	to 4.00	10.00	to 10.00	10.00	to 10.00
Lily of the Valley	3.00	to 4.00	4.00	to 5.00	3.00	to 5.00	3.00	to 4.00
Mignonette	10.00	to 10.00	3.00	to 8.00	4.00	to 8.00	6.00	to 8.00
Paper White, Roman Hy.	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Adiantum Cuneatum	10.00	to 1.00	1.00	to 1.50	1.50	to 1.00	1.00	to 1.50
" " " Crowneum	10.00	to 1.00	1.00	to 1.50	1.00	to 1.50	1.25	to 1.50
Smilax	10.00	to 12.50	12.50	to 15.00	10.00	to 15.00	12.50	to 15.00
Asparagus Plumosus, strings	40.00	to 50.00	50.00	to 75.00	40.00	to 50.00	50.00	to 50.00
" " " " & Sprenger, bunches	25.00	to 35.00	20.00	to 30.00	25.00	to 30.00	30.00	to 50.00

Geo. A. Sutherland Co.
CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

You know we are in our new building, **125 North 10th, above Arch**, with a big line of **CHRISTMAS GOODS** as well as a full line of our own manufactured and imported baskets, beauty vases, Kneeling Benches and screens, gates.

Keep your "I" on the enterprising Florist Supply House of

J. STERN CO. 125 N. 10th St., Philadelphia

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Telegraph or mail orders promptly filled. Long distance telephone connections.
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- Carrillo & Baldwin, Secaucus, N. J.
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- A. Held, 1119 William St., New York. Orchids for Spring Delivery.
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- Cattleya Trilane seed established, Cattleya Gigas seed established, Cattleya Schroederi just arrived; in fine condition. Price per box of 40 plants, 8 to 10 bulbs to a plant, on application. John De Buck, Collector of Orchids, P. O. Box 78, College Point, L. I.

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Pot hangers, Kramer's \$1 doz. by exp., \$1.25 by mail. I. N. Kramer & Son, Cedar Rapids, Ia.

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Paul Niehoff, Lehighton, Pa.
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Baby Rambler roses, fine dormant stock, one year, \$12 per 100, 2 1/4 in. pot plants, extra well rooted, \$1 per 100, \$30 per M. Orders booked for delivery now or any time up to the late spring. Samples free. Brown Brothers Company, Rochester, N. Y.

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SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and orchid baskets always on hand. Lager & Hurrell, Summit, N. J.

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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

The "Just Right" kind. Send for price list. Frank W. Ball, 31 East Third Street, Cincinnati, O.

XMAS OFFERINGS.

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PAREIL.**

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SYRACUSE RED POTS.

Syracuse Pottery Co., Syracuse, N. Y.
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Tobacco Paper "NICO-FUME" **LIQUID**
 IS THE **STRONGEST, BEST PACKED, EASIEST APPLIED.**
Furnishes the Most Nicotine for the Money!
OVER 40% NICOTINE
 By far the **CHEAPEST.**
JUST NOTE PRICES!
 24 sheets.....\$ 0.75
 144 sheets..... 3.50
 288 sheets..... 6.50
 1728 sheets..... 35.10
 Pint.....\$ 1.50
 1/2 Gallon..... 5.50
 Gallon..... 10.50
 5 Gallons..... 47.25

... Manufactured by ...
THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky.

"HORICUM" **HAMMOND'S SLUG SHOT WORKS.**
"HORICUM" A Scale Killer and Fungicide
 A preparation for the destruction of the "SAN JOSE SCALE"; carefully prepared and put up in packages for general use.
 "HORICUM" can be obtained from many of the Seedsmen in the United States. A description of the article is aptly told in the pamphlet. It is put up in quarts and gallons to 50 gallon barrels. It is the Lime, Sulphur, and Salt combination, concentrated.
ABOUT "HORICUM"
 Glenside, Pa., March 31, 1906.
 Hammond's Slug Shot Works, Fishkill-on-Hudson, N. Y.
 Gentlemen: Seeing "Horicum" mentioned in Monthly Bulletin of Div. of Zoology, Penna., I would thank you to inform me where I can get a supply, say about a gallon, for trial. The San Jose Scale is very bad around this section and could no doubt push sale of the solution, especially as it is spoken of so highly in the above mentioned Bulletin.
 Yours respectfully, **H. J. HINDS.**
 P. S. Glenside is twelve miles from Philadelphia.
 Send for Pamphlet on "Bugs and Blights" to B. Hammond, Fishkill-on-Hudson, N. Y.



Kills San Jose.

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 Advertisements in this column one cent a word. Initials count as words. Cash with order.

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 4-in. boiler tubes, second hand. In fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

FOR SALE 4,000 feet of glass. Thriving town of 1,000, 24 express trains daily. No competition; 50 miles from large greenhouse, new. Bargain. Investigate immediately. A. care HORTICULTURE, 11 Hamilton Place, Boston.

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SITUATION WANTED—Private place preferred as head gardener. Married; two children; good reference. A. N., care R & J. Farquhar Co., Boston.

WANTED 200 Fitch Brunnet plants ready to put into house at once. State price and particulars. C. G., care HORTICULTURE, 26th and Market Sts., Phila.

WANTED A first class gardener as foreman of the greenhouses on an extensive private estate. Single man. Wages, \$65. Address with references L. care of HORTICULTURE, 11 Hamilton Place, Boston.

SALESMAN WANTED in wholesale commission trade. Good inducement to right party. Apply with full particulars as to appetencies, salary, etc., to "E." care HORTICULTURE, Dabson Building, 26th and Market Sts., Philadelphia. None but men of good habits need apply. Nothing fanciful implied in latter requirement common sense only. All communications strictly confidential.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

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STARVED ROSE BUSHES NEVER BLOOM
 and the successful florist wants more than the ordinary bloom and stunted stem—he wants all there is in the soil—the bush—the stem—the bloom
 Don't starve the roots.
 Put away your bushes this fall with plenty of fall and spring food for the roots.
 The richest root food, stem and bloom producer you can use is
 Wizard Brand Pulverized Sheep Manure
 It goes further than any other fertilizer, costs less, no waste—no refuse or seeds. Special prices to florists and greenhouse operators.
 Write for Booklet.
The PULVERIZED MANURE CO.
 31 Exchange Ave., CHICAGO
 W.W. RAWSON & CO. Agents for Boston

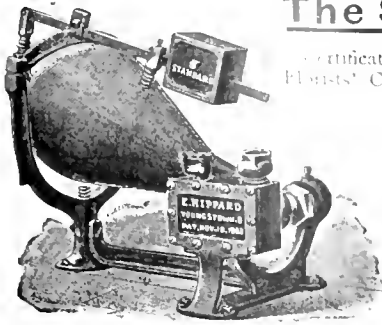
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Proper Pots Make Profitable Plants.
SYRACUSE RED POTS
 are properly made. Best clay molded thin, makes them light yet strong; insures strong, healthy plants. Such plants make profits for the florist.
SYRACUSE POTTERY CO.
 Syracuse N. Y.

RHODES DOUBLE OUT PRUNING SHEAR
 Cuts from both sides of limb and does not bruise the bark.
 We pay Express charges on all orders.
 Write for circular and prices.
RHODES MFG. CO.
 Dept. 4. GRAND RAPIDS, MICH.

Holds Glass Firmly
 See the Point #1 **PEERLESS**
 FULL SIZE N. 2
 Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
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Certificate of merit awarded at Washington, D. C. Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

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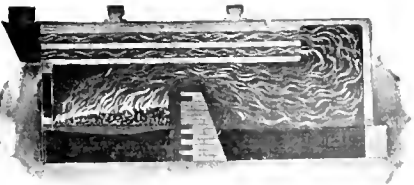
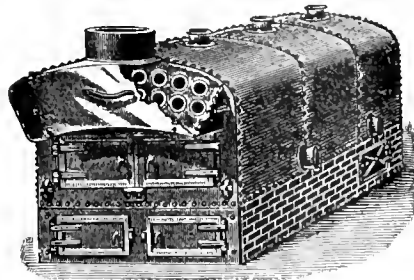
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Kroeschell Bros. Co.

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Boilers made of Steel Boiler Plate; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

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and STEAM BOILERS**

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Standard Flower .. **POTS**

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

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32 feet or longer

HOT BED SASH
PECKY CYPRESS BENCH LUMBER

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Packed in small crates, easy to handle.

	Price per crate		Price per crate
1500 2 1/2 pots in crate	\$4.88	120 7 in. pots in crate	\$4.20
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1000 3 " " " "	5.00	48 9 in. pots in crate	\$3.60
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500 4 " " " "	4.50	24 11 " " " "	3.00
320 5 " " " "	4.51	24 12 " " " "	4.80
144 6 " " " "	.16	12 14 " " " "	4.00
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Seed pans, same price as pots. Send for pricelist of Cylinders for Cut flowers, Hanging Baskets, Lawn Vases, etc. Ten percent. off for cash with order. Address Hillfinger Bros., Pottery, Fort Edward, N. Y. August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

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NOW IS THE TIME TO INSURE
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BY HAIL. For particulars address

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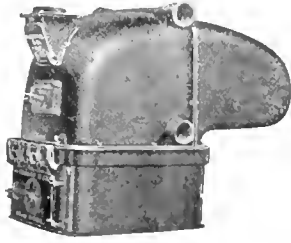
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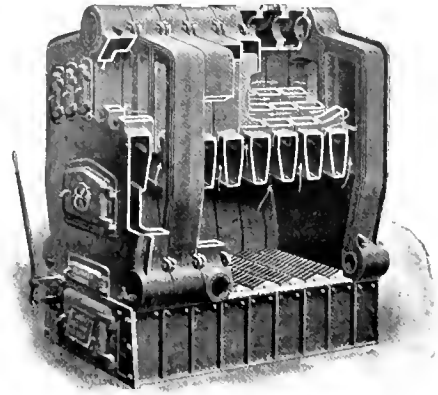


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Manufacturers of Heating and Ventilating Apparatus.
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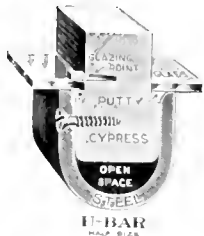


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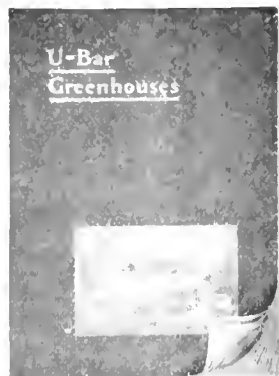
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know every U-Bar point—We want to send you this catalogue. **Pierson U-Bar Company, Designers and Builders U-Bar Greenhouses, Metropolitan Building, Fourth Avenue and 23rd Street, New York.**

HORTICULTURE

Vol. IV.

DECEMBER 29, 1906

No. 26



EDITOR OF PALM HOUSE OF W. S. SPAULDING, PEPPER CROSSING, MASS.
Lod. & Bingham Co., Boston

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
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At 11 Hamilton Place,
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DEC 31 1906



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LILIUM LONGIFLORUM

Japan-grown, 9-10 in. bulbs, case of 200 for \$15.00
Japan-grown, Multiflorum, 7-9 in. bulbs, case of 300 for 15.00
Japan-grown, Multiflorum, 9-10 in. bulbs, case of 200 for 17.00
Japan-grown Giganteum, 8-10 in. bulbs, case of 225 for 22.50
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Lily of the Valley. Just arrived. Our finest Perfection grade

for earliest forcing, immediate delivery, case of 2,000 pips for \$28.00.
Gladiolus Colvilli alba, "The Bride," \$7.50 per 1000.
Gladiolus Colvilli rubra, \$6.50 per 1000.
ASTILBE, OR SPIREA. Ready for delivery. Gladstone, \$8.00 per 100; Astilboidea floribunda and Japonica, \$5.00 per 100; Compacta multiflora, \$6.00 per 100.

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COLOR—A peculiar shade of lovely pink, with a faint yellowish cast; several shades lighter than the Lawson. Unlike most Pinks, the brightest sun does not injure the color. **SIZE**—3 to 4 inches in diameter when established. **ODOR**—Pleasing, but not strong. **STEMS**—Invariably strong, but always graceful, ranging from 12 to 30 inches during the season. **HABIT, etc.**—A very quick, a true grower, making specimen plants in a short time, even from late cuttings. (On account of its rapid growth, requires support very soon after benching. Gets away rapidly, blooms early and gives long stems right from the start. **PRODUCTIVENESS**—Prodigious is the best word we know of to use here. It is the most incessant bloomer early and late, we have ever grown. **Stock Limited. Delivery January 5th to 10th and later.**

Price \$12.00 per 100, \$100.00 per 1000

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Red Chief—Bright scarlet—early and very productive. \$12.00 per 100; \$100.00 per 1000. Average 3 in. flower. A leader in every respect.

Bonnie Maid—Clear pink edged white. \$12.00 per 100; 100.00 per 1000. Large well formed bloom. Very early and productive.

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It is both free and "fancy"—a sure money-maker. Price \$7.00 per 100; \$60 per 1000. Delivery January and later. Write for Descriptive Circular.

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KAISERIN " "	4.00	35.00
VARIEGATED LAWSON R.C.	6.00	50.00
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\$6.00 to \$10.00 per 100

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not only has one of the largest, but one of the finest collections of any firm in America. We have over a million Dahlia roots to sell this coming season. Send for prices.

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brilliant color, fine stem, the most productive ever introduced, blooms early until thrown out in July, no extra grass. All shoots make flowers. Watch the papers and see what growers say about it. None but well-rooted, healthy cuttings leave the place. Rooted cuttings ready Dec. 15, 1906. Price, \$6.00 per 100; \$50 per 1000.
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8 to 11 inch crowns	10 to 12 inch crowns
100 plants	50 plants
250 plants	100 plants
500 plants	200 plants
1000 plants	400 plants

A fine lot of plants of the variety 'Deutsche Perle' in the following quantities:

8 to 11 inch crowns	10 to 12 inch crowns
100 plants	50 plants
250 plants	100 plants
500 plants	200 plants
1000 plants	400 plants

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| Empress of India | Mme. Vander Cruyssen | Apollo |
| Bernard Andre Alba | De Schryveriana | Emperor of Brazil |

A nice lot of specimen plants, 18 to 20 inches in diameter at \$3.00 each

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HINSDALE, ILLS.

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A special selected grade for florists' use READY FOR DELIVERY.

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AURORA

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Originated and introduced by H. R. CARLTON, Willoughby, O.

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Now is the time to place your order for freshly imported Orchids delivered next spring. Our facilities for handling large consignments are second to none. Prices are very low, quality considered, fine stock of established Orchids on hand.

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Ornamental Conifers—Pinus



PINUS DENSIFLORA COMPACTA

Pines are among the oldest trees inhabiting our globe; the prints of some are found in the rocks of the Jurassic and Tertiary ages. The foliage is so different from any other conifers that nobody can fail to recognize them. They are among the most useful trees for their economical as well as ornamental value and are really nice trees when well-grown. They are found in nature in all kinds of situations, some in sand, some in swamps, from the highest altitude to the low pond, from a small bush to very big trees.

Pines are botanically classified in different sections nowadays, but for our purpose the old classification of two, three and five needles in a bunch, is good enough. There are over seventy different species known and according to a check list of the Division of Forestry of the U. S. Department of Agriculture about forty are found in the States; they have all more or less ornamental value; some are not hardy in New England or do not grow well on account of climatic conditions. I will mention only those which succeed best.

PINUS WITH TWO NEEDLES IN A BUNCH

Banksiana or *divaricata*, from the northern part of America. This is the pine which grows the farthest north. It is not a particularly handsome tree. The branches, which grow long and irregularly, are covered with short twisted needles of a light green color. It is a small growing tree which will succeed in the most exposed situation when many others would not stand.

Inops or *Virginica*, the scrub pine of the Atlantic States, is generally known as a dwarf ramified shrubby tree, but is found in tree form on the western side of the Alleghanias. It is a useful little tree to cover slopes where no obstruction to the view is wanted.

Muricata, from California, is a tree of peculiar dark green color of picturesque irregular growth and of small size, the needles long, rigid, and recurved.

Pungens is an eastern tree of irregular growth; some of the branches grow long, some short, the needles are rigid, short and a little twisted; resembles *Banksiana*.

Resinosa, the resin pine of the northern states, looks much like the well-known Austrian pine, having the same symmetrical growth, but stouter, and the needles are softer. All the pines of the Austrian type when

young are very hardy and grow in all kinds of soil.

Fig. 1. *L. austriaca*, the Austrian pine, is the most common Scotch pine. It is a tree of symmetrical growth. There are several forms, *syl. muricata*, *syl. baltica*, and *syl. densiflora*. The last is of great natural interest, the best specimen being the *var. compacta*, which has the most compact growth, and the needles are ivory colored. *var. aurea*, with a pronounced yellow foliage with normal growth, *var. compacta*, *var. imbricata*, and *var. Benoniensis*, the three last names being dwarf compact growing bushes.

Laricio and its forms from south Europe are not very hardy here, but the more northern form, *L. Austriaca nigra*, is well known for its healthy dark green color and symmetrical form.

L. Pallasiana or *taurica* grows like *Austriaca*; the needles are longer and sometimes twisted; they are all fine trees which require space to grow.

Montana, better known as *Mughus*. There is very little difference between this tree and the American *Inops* and they are often taken one for the other. *Montana* is of a more spreading habit and the needles are more twisted. There is a form growing in the southern part of Europe which takes the shape of a tree and is then called *uncinata*.

Massoniana or *Thunbergii* is a Japanese tree which looks much like the Austrian pine, with longer unsymmetrical branches. It is more curious than beautiful and is not very hardy. In Japan it is cut back and twisted into all kinds of forms.

Densiflora, another Japanese pine, the best of the two, grows to a bushy pyramid not unlike the white pine, and has the finest needles of all the two-needled pines. It is of light green color and a very graceful tree. There are a few garden forms, introduced from Japan. *D. compacta* grows to a big compact spherical form. *D. pumila* is a very interesting weeping form and a free grower. *D. aurea* and *D. argentea* var., the Sunray pines, have their needles transversally variegated with green and yellow or white with a beautiful effect. *D. aurea* takes a golden color in the fall. These three last ones are a little delicate and want good protected situations. They often lose their needles in winter on account of the yellow and white variegations which freeze, but they grow again in the spring.

PINUS WITH THREE NEEDLES IN A BUNCH

Most of the three-needled pines are not hardy here or are bad growers. The few that succeed well are:

Ponderosa, also called *Benthamiana*, is a large growing tree found over the greater part of all the western and southwestern states; it has long, rigid, slightly twisted needles. It varies more than any other American pines on account of its wide range and the difference of climate where it is found. It is one of the most distinct trees for the lawn, slow to grow at the beginning, but once established makes good growth and its long, strong needles give it a special attractiveness. *Jeffreyi* is one of its numerous forms.

Rigida, the pitch pine of the eastern states, is a nice compact, straight growing tree, with not very long needles of grass-green color.

taeda, another common pine of the Atlantic States, has short needles like *rigida* which it much resembles.

Am. Hort. Soc.

To be continued.

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Many happy returns of the day

From all accounts that have reached us the 1906 Christmas trade in florists' products has far outstripped anything recorded heretofore. The holiday plant trade shows a remarkable increase but, we are pleased to learn, not at the expense of the cut flower trade, which has also demonstrated a healthy growth. May it continue to do so.

With this issue HORTICULTURE'S fourth volume comes to a close. Advance payments—best of all tests—from subscribers for the new year are already such as to give us the gratifying assurance that a rap-

idly increasing number of readers find in HORTICULTURE their ideal. Nothing could please us better for it has been our greatest ambition to make a paper which the horticultural profession might consider good enough to be ungrudgingly paid for. With the beginning of our fifth volume we repeat what we have said in the past, that it will be a pleasure to hear from our readers as to anything that, in their opinion, we can add to our weekly contents whereby we may be enabled to render to the profession a greater service. The dissemination of useful knowledge among the horticulturists throughout the land has been and will still be our task and while we shall be glad to devote a portion of our reading columns to pleasantries and light reading yet, as heretofore, ephemeral information and pointless controversies must, in HORTICULTURE, always take a place subordinate to matters of genuine value.

The calanthe has a future in the flower market

So rapidly has the introduction of the orchid as a standard class in the commercial cut-flower trade progressed that we already find fairly regular and ample supplies of the various cattleyas, oncidiums, cypripediums and several dendrobiums and laelias available for the buyer in quest of choice material. Commercial orchid growing is, however, only in its infancy with us and the next ten years will show a much more remarkable development in this direction than anything we have yet experienced. The notes on calanthes in this issue by Charles Storer are suggestive of the possibilities with this fine subject as a Christmas specialty and should have more than a casual reading. Mr McWilliam has been breeding between the early and late-flowering calanthes with the object of having a succession in bloom all through the winter and is gradually attaining his object. Dr. Lindley's eloquent tribute to the orchid's supremacy as a decorative flower, written more than seventy-five years ago, seems appropriate here.

"For what purpose can the world have been adorned with these orchideous plants? To man or animals they are scarcely ever of any known use. No honey is secreted by their flowers; neither poison, medicine, nor food, are collected in the recesses of their stems; and their very seeds seem unfit for feeding even the smallest bird. We can scarcely suppose them provided for the purification of the unwholesome atmosphere of the forest recesses in which they delight, for their organization is that of plants whose leaves perform their vital actions too slowly to effect such a purpose. For what then can they have been formed, unless to delight the sense of man, to gratify his eye by their gay colors and fantastic forms, and to shew the inexhaustible fertility of that creative power which we recognize everywhere in Nature."

Educated gardeners wanted

Our frontispiece in this issue shows a tasteful arrangement of beautiful, well-grown plants in a well-adapted conservatory. In many respects it sets forth the development of our day in a department of horticulture which is growing so rapidly in this country that the craft seems to have been unable to keep pace with it. The splendid glass structures which are being erected by hundreds every year are conclusive evidence that the plant conservatory is rapidly gaining recognition as an indispensable adjunct of the suburban or country home and illustrate an unparalleled degree of attainment in structural beauty, stability and fitness, in the work of our greenhouse builders. The question forces itself upon us—where is the material to be found for filling all these houses as they should be filled and whence are to come the gardeners competent to manage them? That the number

AFTER ADJOURNMENT.

Referring to the recent appointment of Mr. E. H. Wilson to represent the Arnold Arboretum in an exploring expedition to western China the Journal of Horticulture (London), in a recent issue locates this great American collection of trees and shrubs at New York. We are glad to acknowledge New York's supremacy in many things but would respectfully inform our English friends that a trifle of 200 miles lies between New York and Boston's best horticultural possession—the Arnold Arboretum.

The Niagara Falls Gazette regales its readers with a story, over a column long, of a new hybrid hibiscus which Thomas Meehan & Sons have produced and will exhibit at Jamestown Exposition and a detailed account of the processes by which it was brought about. We question, however, just how much gratification the Messrs. Meehan will derive from the statement that they "received from Burbank the inspiration and recognized the great opportunities that lay in the possibilities of creating a new plant."

HORTICULTURE'S REPRESENTATIVES.

The following named gentlemen represent this paper in their various local districts, and are authorized to accept subscriptions, advertisements and news items.

BUFFALO, N. Y.—E. C. Brucker, 385-87 Ellicott St.
CHICAGO, ILL.—Peter Pearson, 920 N. Campbell Av.
CLEVELAND, O.—A. L. Hutchins, 2220 East 74th St.
COLUMBUS, O.—M. B. Faxon, 246 Oak St.
CINCINNATI, O.—Frank W. Ball, 31 East 3d St.
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There can be no more useful and appropriate Holiday present than a subscription to HORTICULTURE. The more he reads HORTICULTURE the better service he will render you. If you want to give five or more we will be glad to make a special discount, on application.

Other Useful Holiday Gifts.

The Dahlia. By L. K. Peacock. Price, 30 cents.
The American Carnation. C. W. Ward. Price, \$3.50.
Manual of the Trees of North America. C. S. Sargent. Price \$6.00.
The First County Park System. F. W. Kelsey. Price, \$1.25.
The Horticulturist's Rule-Book. Bailey. Price, 75 cents.
Chrysanthemum Manual. Smith. Price, 40 cents.
The Chrysanthemum. Herrington. Price, 50 cents.

MOVING LARGE TREES AT NEWPORT.

Andrew S. Meikle, gardener for Mr. W. S. Wells, is now busily engaged in remodelling the grounds on the estate. Through his recent purchases Mr. Wells has now an entire block in one magnificent estate which will when the present plans are completed compare favorably with the largest and finest in Newport. The work under construction includes the making of an elaborate garden after the style of one at Monte Carlo. Lindens from twenty-five to thirty feet high are planted in two rows on either side. These were moved from neighboring estates with immense balls of earth



adhering to the roots, the weight of many reaching as high as fourteen tons. Maples are utilized principally for the hiding of objectionable buildings in the distance, and it can be seen even now that the impression of the place when completed will be that of a park. Horticulturally, this estate and the work under way is interesting. It illustrates the effects that can be produced in a very short time by the moving and planting of many large trees. It is also encouraging to note the disposition to generous expenditures of money on the part of the owners for the beautification of their grounds.

THE INTRODUCER OF THE CHRYSANTHEMUM.

A hundred and seventeen years ago M. Pierre Louis Blancard brought home from China to his native town, Marseilles, the first large flowered chrysanthemum even known in Europe. Neither he nor anyone else at that time could possibly foresee the great popularity that the newcomer would attain to. It first bloomed in England in 1795 and was subsequently introduced into America although in what year no one seems to be quite sure.

It is curious that two of the granddaughters of M. Blancard have been living in England for many years. They are aged women, in feeble health and in very straitened circumstances. A fund has been started by the French

N. C. S. to help them. English chrysanthemum growers are also subscribing to the fund which it is hoped will relieve the present necessities of the two poor old Frenchwomen whose ancestor rendered so great a service to the world's horticulture. C. H. P.

SINGLE CHRYSANTHEMUMS.

Twenty Years Ahead of Time.

In 1883 and in 1884 I raised the following single chrysanthemums. They were distributed in the usual way but like some others of my efforts they were too previous to be appreciated except by a very few. Singles were equally as beautiful then as now, but they did not take. Ten or twelve of the varieties were sent to England and were catalogued by the Messrs. Cannell for a number of years. They were, James Y. Murkland, pure white petals, narrow, twisted like the pinnae of an ostrich feather, gold ring around disc, very large; Peter Henderson, pure gold, broad flat petals; Wm. Falconer, apple-red self; Pres. Arthur, crimson and gold; Mrs. C. L. Allen, most beautiful rose and white; Mr. W. K. Harris, long drooping petals, distinct gold and bronze; Helianthus, very large deep golden yellow, pointed petals; Mary Anderson, self pink; Crushed Strawberry, red and yellow; Mrs. W. K. Harris, white, pink tips; Margureite, silver white and gold; Marigold, brightest crimson and gold, four inches in diameter. I grew a specimen plant of this four feet across, with but one stake in it and the flowers touched each other like cinerarias. JOHN THORPE.

CHRYSANTHEMUM YEAR BOOK.

The English National Chrysanthemum Society are about to repeat the experiment of issuing an annual bearing the above title for free distribution amongst its members. Mr. Chas. H. Curtis, sub-editor of the Gardeners' Magazine and Mr. Harman Payne have been appointed joint editors.

The chrysanthemum year book will be ready for publication early in January, 1907. It will contain articles from the pens of many leading English authorities on chrysanthemum culture, numerous illustrations, statistical information of the highest value to exhibitors and growers, besides a series of critical and literary contributions on every subject of interest connected with the ever-increasingly popular autumn flower. Being an official publication of the N. C. S., this new book will be circulated gratuitously amongst its numerous members at home and abroad, and it is confidently expected that it will have an exceptionally large circulation amongst the members of its affiliated societies, besides receiving a large measure of support from the chrysanthemum growing public at large.

CHANGE IN ADVERTISING RATES.

Beginning with the issue of January 5, 1907, new advertising rates will go into effect.

Per inch, each insertion, \$1.00. Discounts on contracts for consecutive insertions, as follows:

One month (4 times) 5 per cent.;
three months (12 times) 10 per cent.;
six months (26 times) 20 per cent.;
one year (52 times) 30 per cent.

Page and half page spaces; special rates on application.

SPORTS.

A paper by Patrick O'Meara on the New York Horticulturist.

(Continued from page 717.)

An instance where at a bound a white sport issued from a scarlet variety is found in *Salvia splendens* alba. From *Salvia splendens*, at the base of the tube in the latter is always found a bleached white which extends less or more beyond the sheath, therefore, the white sport seems a natural progression, as the subsequent striped sport is.

The double abutilon, a sport from *A. Thompsonii* and identical in its variegated foliage and color of flowers is the only case of sporting which I can recall in that plant, although widely grown.

The carnation sports are numerous and here again they are progressive. I cannot recall, for instance, where a yellow issued from a red or white, or a white from a yellow or a crimson. It is when neutral shades are reached that sporting begins. The same is true of chrysanthemums and to a lesser extent of dahlias, both of which are very prolific in sports. It seems to be along well defined lines of color changes then that sporting follows, and the layman may well be pardoned when he arrives at the conclusion that it is the blood and is not brought about by growing conditions. If the latter theory was correct, it seems to me there would be no limit to sports while the limitations seem to be arbitrarily fixed, which is not the case with seminal reproduction.

Another phase of sporting is when the habit of the plant is changed, some examples of which I have alluded to previously. Climbing roses issue frequently from dwarf sorts, particularly in the monthly class. As far as I can recall, the flower in such cases is always identical with the parent. In the Hybrid Perpetual, and Hybrid Tea classes too, climbing sports are produced, but there is a difference very marked from the monthly sports. The latter are easily fixed and never "run back," while the others to the best of my knowledge are never absolutely fixed, and thus are constant reversions, temporary and permanent, in individual plants.

The foliage sports are many, but I will only mention one, viz., the Golden Bedder coleus which resulted as a sport from Lady Burrill, a variety with harlequin markings of dark red and yellow. It has never reverted. While on the subject of coleus, I cannot forbear from referring to a marked instance of the occurrence, wide apart, of a similar break in this plant. The golden leaved coleus originated in England and was imported by Peter Henderson. Before the plants arrived, seedlings raised from seed saved on the place from the old dark leaved sorts developed some golden varieties.

In Prof. Corbett's paper, already quoted from, he says, "Burpee's dwarf lima bean is a good example of a sport where the habit of the plant was markedly changed." This brings us into the realm of seed sports, wider and more complex than the other and I do not mean to explore it to any extent.

Prof. Bailey is authority for the statement that: "Bud variation and

CARNATION PINK IMPERIAL.

John H. H. (1906-1907)



seed variation are one in kind," and again: "I am ready to say that I believe bud variation to be one of the most significant and important phenomena of vegetable life, and that it is due to the same causes, operating in essentially the same way, which underlie all variations in the plant world." Again he observes: "I want to express my conviction that mere sports are rarely useful. Sports are no doubt the result of very unusual or complex stimuli or of unwonted refrangibility of the energy of growth, and not having been induced by conditions which act uniformly over a course of time they are likely to be transient." Again, "The vexed questions associated with bud variation are not yet greatly elucidated." Again: "All these conclusions prove the unwisdom of endeavoring to account for the evolution of all the forms of life upon any single hypothesis; and they illustrate with greater emphasis the complexity of even the fundamental forces in the progression of organic nature." Again: "Now this matter of bud variation has been a most puzzling one to all writers upon evolution who have touched upon it. It long ago seemed to me to be inexplicable, but it is no more unintelligible than seminal variation of plants." These quotations from "The Survival of the Unlike" are introduced to show how contradictory even an

eminent authority on the subject can be, at least so it appears to me, a layman. If I understand him at all, it is to the effect that all sports are the result mainly of the conditions under which the subjects are grown; that all variations are of a sportive character; that the difference between well cultivated and poorly cultivated plants is a sportive one.

The average florist and gardener is hardly prepared to accept that view, perhaps the reasoning is too subtle for him to follow. He knows that no cultivation of which he is master can make a poor variety as good as a good one; he knows that sports, as he understands them, are sporadic and many believe that by a careful study of heredity on the part of scientists the law governing sports might be discovered. But to return to the lima bean. Here again we find a cycle of change. Three sports appeared within a very short time, almost simultaneously, viz., Kummerle's, subsequently called Dreer's, Henderson's, the latter appearing with several growers at the same time, and Burpee's. Of the origin of the first two I have no specific knowledge, they merely happened; but as to the last, the raiser I had almost said the creator—claimed that a horse trod on a plant while it was young, that it never grew to be a climber, and that the beans reproduced dwarf plants. This was gener-

SEED TRADE TOPICS.

ally known in the trade and more than one grower crippled vine plants in an effort to develop a dwarf, but without success.

The White Plume celery is another notable example of a seed sport and once the break came others followed. I had almost forgotten to mention the latest and most interesting forms of sporting, viz., the ferns which have sported from the "Boston" variety. If I remember correctly, when that variety first made its appearance, there was considerable discussion as to what it really was, and it was finally classified as a sport from *Nephrolepis exaltata*. Darwin said: "Of all the causes which induce variability, excess of food, whether or not changed in nature, is probably the most powerful." Here again we have the food question. The florist and gardener believes that the amount of food which will bring his crop to the highest perfection is not excessive, possibly he is wrong. The excessive amount is that which will cause deterioration, and it is not under such conditions that sports have appeared with him. It might not serve any useful purpose, yet it seems to promise an interesting field of study for some of our scientists to thoroughly examine into sports obtained through bad variation under domestication in an effort to clear away the mists which now surround their origin.

DAHLIAS FROM SEED.

Seed should be sown in rather light soil in flat or shallow bench in greenhouse, last of February or March. When true leaves first appear they should be potted into 2-inch pots with the seed leaves just at the surface. Repot as needed and plant out when safe to set tomatoes (early May in latitude of Philadelphia and about June 1st for Boston), care being taken that the plants do not get checked, also that every seedling be saved, as generally the strongest plants are worthless and the most delicate give the best flowers and eventually develop into strong plants.

Where large quantities are to be grown the seed can be sown in hot beds or frames the same as tomatoes, but very thinly; care taken not to over water, but keep the surface stirred and allow plenty of air to prevent drawing and damping off. Handled in this way they need not be potted and can be transplanted safely to the open ground with practically no loss.

Seedlings handled in this manner, where weather will permit setting by May 15th, will commence blooming by July. Very truly yours,

L. K. PEACOCK.

INCORPORATED.

Henry E. Jaeger, New York, florist; H. E. and C. R. Jaeger, A. J. Rowley; capital, \$10,000.

Rice Bros. Co., Geneva, N. Y.; nursery stock, seeds, etc.; J. F. and T. W. Rice, O. C. Rose; capital, \$25,000.

Charles H. Fox Co., Manhattan, N. Y., natural and artificial greenhouse flowers; C. H. Fox, Phila.; J. Hirsch and W. Jacobs, New York; capital, \$25,000.

The leading retail seedsmen have been so busy during the past few weeks with holiday goods that seeds have been relegated to the extreme rear. The general opinion of the trade is that the activity in this line of goods has surpassed any previous year and there will be little in the way of really saleable goods carried over the New Year. The decoration of stores and store fronts has never been so lavishly done as it has this year. In many western cities the decorating of store fronts and even of the fronts of entire buildings has been done on a most elaborate scale, many hundreds of yards of laurel and ground pine "rope" being used on a single building. This was especially a feature at Indianapolis when the demand was in excess of the capacity of the local dealers to supply.

Now that the decorative feature has passed for this year, thoughts will turn again to the more prosaic but really important part of the seedsmen's business. A few advance copies of the catalogues for 1907 have appeared, and these are mainly from the South, but the leaders are not yet in evidence, though we may look for them immediately after Jan. 1. It is confidently predicted that the response of the seed buying public will be prompt and liberal.

It may be taken for granted that both the House and Senate Committees on Agriculture will declare against free seeds, and it is hoped they will not be overridden on the floor

of either of these bodies. In view of the strong array of facts marshalled by the seedsmen's committee, it would seem to be reflecting on either the intelligence or honesty of both House and Senate to think them capable of continuing such a thoroughly Scotched and discredited graft. But then Congress is "fearfully and wonderfully made," and people should reserve their applause until after the votes are counted, then, "maybe there won't be no applause." However, we can hope for the best, and in view of the fact that some of the heaviest blows dealt this abuse were from the home of its friends, the South, and notably from Texas, makes one optimistic. Then Bailey, from the octopus killing states, is against free seeds. Now Bailey is not afraid of any octopus. He is like the man who was not afraid of work, and to prove it he went down with his hoe in a reedy cornfield and went to sleep. Bailey is so little afraid of an octopus that he will accept a retainer from it and work loyally and energetically for it. Still he is against the free seed graft, and being an able and vigorous debater, he can prove of great assistance in defeating the appropriation.

Canners' peas are still soaring and have now passed the \$4.00 per bushel mark. Unless "seed stock" appears pretty soon, canners' varieties will not be procurable at any price. Already Admiral's Advancers, Horsford's Market Garden and Surprise are scarcely obtainable, and this situation will be worse before it is better.

CARNATION IMPERIAL.

John E. Haines, Originator.



LEADING GARNATIONS

ARISTOCRAT Beautiful Cerise
RED RIDING HOOD Scarlet

Early delivery of well rooted first class healthy cuttings. Send in your order early. Catalogue ready Jan. 1st 1907

CHICAGO CARNATION CO.,

JOLIET, ILL.
A. T. PYFER, Manager.

STERILIZING HOT HOUSE SOILS.

One of the expenses of the hot-house plant or vegetable grower has been the replenishing of soils worn out by use. When the soil of a green house has been used a certain length of time it becomes practically "dead" or "sterile" and no amount of fertilizing will make it productive. It in reality becomes a breeding place for the various fungus diseases which infest the crops and growers have heretofore been obliged to remove a greater portion of the dirt and replace it with fresh soil. Even this, while it remedied the soil some was not complete and proved expensive. The problem has at last been solved and soil sterilization is no longer an experiment, but a reality. The method is to run steam pipes perforated with small holes, through the entire length of the bed. These are buried about a foot in the soil and attached to the steam boiler. When all is ready the steam is turned on and left for 5 to 8 hours or until the soil seems thoroughly cooked. The theory advanced is that the extreme heat does the work. It has long been known that farm land once burned over by dead grass, or in spots by brush heaps are thereafter much more productive; this is no doubt partially due to ashes, but not all.

The Michigan Agricultural College has taken up the subject and is now making some expensive experiments. They have laid pipes made of porous substance, and also tested an apparatus made like an old-fashioned spike-toothed drag, the teeth being made of perforated iron pipes attached to a

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have the finest stock of recognized Hardy Rhododendrons, Azaleas, Andromedas, high class Evergreens and specimen Conifers. Ask for special list of plants grown for the American trade.

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frame work and all connected with each other. The whole arrangement is placed with the teeth downward on the soil to be sterilized and the teeth forced into the soil. This of course will do away with the expense of burying pipes. The success of the first experiment is assured and ere another year many of the green-house men here will be equipped and ready.

W. S. STEVENS.

Grand Rapids, Mich.

CATALOGUES RECEIVED.

Henry Nungesser & Co., New York; wholesale price-list of grass and clover seeds.

Chas. H. Totty, Madison, N. J. Catalogue of novelties in chrysanthemums, carnations, roses, etc.

The Mitchell Greenhouses and Nurseries, Mitchell, S. D., "The Newburys," proprietors. Wholesale and retail list of trees, shrubs, plants and flowers.

R. Vincent, Jr., & Son, White Marsh, Md. Descriptive geranium catalogue for 1907. Unquestionably the most comprehensive catalogue of geraniums ever published in this country. It is adorned with many half-tone illustrations of great beauty and the cover bears colored portraits of two striking varieties.

The Morehead Mfg. Co., Detroit, Mich. send a neat folder giving description and testimonials in favor of the Morehead Tilting Return Steam Trap, which has been advertised here-in in HORTICULTURE. The Morehead is the standard and no steam heated greenhouse can afford to be without this money-saving device. This folder tells why.

Burpee's Farm Annual for 1907 is out. This will be good news for the universal man who is looking for "Seeds That Grow." Especially interesting are the pages devoted to the Bush Lima Beans, two new "creations" in this class, being recorded as 1907 novelties the "Fordhook" and the "Burpee-Improved." \$1,000 in cash prizes are offered for superior culture and reports on these specialties, and we advise the reader of this note to send for the schedule giving rules on awards thereof.

Kelway's Manual of Horticulture,

55th edition, issued by Kelway & Son, Langport, Somerset, England, has just come to hand. A book of 100 pages, illustrated with many hundreds of superb halftones and two colored plates, this publication outclasses the ordinary catalogue and is, indeed, what its name implies, a manual which one may sit and pore over and find much to learn. It contains so much that to particularize would demand space far beyond our limits. We can only say that there is not one page of the 100 that the plant lover will not read with deep interest.

GERANIUM

Wholesale catalogue and price list contains descriptions of seventy-five of the best standard sorts and 100 imported novelties, sent free to trade only.

R. VINCENT, Jr. & SON
WHITE MARSH, MD.

LADY GAY

AND

HARDY GARDEN ROSES

in choice varieties. Field grown plants, first quality stock including Frau Karl Druscni. New Hardy Hybrid Tea Dean Hole. Killarney and Souvenir de Pierre Notting. Herbaceous Paeonies. Hollyhocks and Phlox.

Catalogue mailed on request.

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Dwarf Choicest Mixed, 1/2-trade pkt., 25c; trade pkt., 40c; oz., \$1.25
Grandiflora Choicest Mixed, trade pkt., 20c; oz., 50c. (Also all other sorts.)

SALVIA, (Scarlet Sage)

Bonlire, (Clara Bodman), 1/2 trade pkt., 40c; trade pkt., 60c; oz., \$2.50
Ball of Fire, (New dwarf), 1/2-trade pkt., 30c; trade pkt., 50c; oz., \$3.00
Splendens, trade pkt., 25c; oz., \$1.25 (Also all other sorts.)

VERBENA

(Michell's Mammoth Fancy)

Mammoth Fancy Mixed, trade pkt., 30c; per oz., \$1.50.

VINCA, (Mammoth Strain)

Pure White, Pink, White with Pink Eye, any of the above, 20c per trade pkt.; per oz., 60c.
Mixed, All colors, 15c per trade pkt.; per oz., 50c.

Write today for our special combination flower seed list and order sheet, for florists.

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ANNOUNCEMENT

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CONSIGNMENTS SOLICITED

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and 9 Chapman Place,

See our Greens Advertisement on page 705.

L. D. Telephone, Main 2618.

PHILADELPHIA NOTES.

Jno. Thatcher, who has been in charge of the Le Boutilier gardens at Wynnwood for the past ten years, moves to Chester, West Virginia, Jan 1st, to take charge of the Smith estate. The best wishes of his many friends go with him. Mr. Thatcher hails from England and was trained at the celebrated Enville gardens, where our Burtons and Lonsdales and many others who have made their mark came from.

Henry F. Michell reports the Christmas trade in plants and greens as very satisfactory. Everything was sold out clean by the 24th. This company's store was the best decorated and had the best assortment of any retail seed store here. Philip Pfrend, the manager of this department, is an adept at "spick-and-span" and knows how to get out the orders.

H. H. Battles has been making a specialty of imported Etruscan and Pompeian ware this season. Little pieces of art that readily bring ten dollars for the original are imitated in this country for as low as fifty cents. But Mr. Battles sticks to the

originals, and has no trouble in getting the price. With a few orchids inserted, these rival the most lavish display of costly exotics. There is a prevalent belief in Philadelphia that no other city has the spirit of true taste and that other places and people care only for show and glitter. This is interesting if true; but we are inclined to believe there are exceptions.

A. B. Cartledge assures us that there has never been a better Christmas for the florist than the one just passed. The demand for cut flowers, made-up baskets, wreaths, bouquets, and designs has never been surpassed. The people had the money to spend, and they spent it, and it was gratifying to find that they leaned to sensible and artistic things of lasting quality, whatever the price, rather than to the cheap and flashy.

The wisdom of providing plenty of artistic Parisian baskets with decorations of red and green for the Christmas trade is enlarged upon by Robert Kift, who submits that the public know what they want when they see it, but that they must see it first.

Wm. Graham, known as an aggressive member of the flower trade here, is particularly clever in putting a design on paper in colors and this has won for him many an order in competition. This is a valuable pointer for the ambitious beginner with imagination and artistic leanings.

The great Christmas business this year is modestly attributed by Robert Crawford to the goodness of the times and the increasing culture of the public, but we are inclined to believe that the push and energy of the firm had something to do with it.

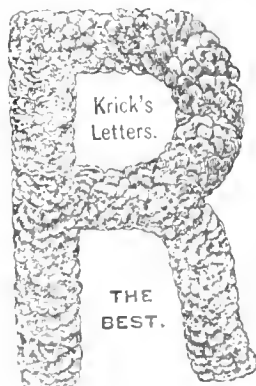
I have interviewed dozens of others in regard to their Christmas business and their opinions in general as to how the retailer's Christmas business should be conducted. One and all have echoed the sentiments contained in the foregoing and all are agreed that it has been the best Christmas they ever had. The cold here was intense both Monday and Tuesday, which was tough on deliveries.

FLORIST CLUB OF PHILADELPHIA.

The next meeting of the Florist Club of Philadelphia will take place on New Year's Day. Open house will be the order afternoon and evening with free refreshments. S. S. Skidelsky is to read a paper on our credit system, its uses and abuses—so there will be a feast of reason as well as a flow of soul. Many other interesting things will be discussed. Everyone should make it a point to be there. Samuel S. Pennock will preside and well tell all who care to enquire how he managed to get through the upper and nether millstone without getting crushed. That is a great feat during the holiday rush. Jno. Westcott has recovered his health, and will be able to give a good account as to the progress of arrangements for the convention in August.

At the meeting of the State Horticultural Society at Urbana, Ill., which closed on the 15th inst., the following officers were elected: President, G. J. Foster, Normal; vice-pres., S. G. Soverhill, Tiskilwa; sec., W. V. Lloyd Kimmundy.

TRADE NOTICE



Owing to the advance in material in the manufacture of immortelle letters, I am forced to advance the price of letters on Jan. 1st 1907, as follows, viz:—

Per 100
1 1/2 & 2 in. \$2.75
2 1/2 in. 3.00

All other goods manufactured by me are not affected at this time.

Thanking you for past favors, and hoping for a continuation of the same, I remain yours respectfully,

W. C. KRICK

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75 NEPHROLEPIS BOSTONIENSIS
75 NEPHROLEPIS PIERSONI

In 5 and 6 in. pots that will retail readily for 50 and 75c each. Price in lots of 25 at 30c each or the entire lot of 150 at 25c each. Also a few

... SPECIMEN FERNS ...

Scottii, Elegantissima, Exaltata, in large pans \$2 each; cash or satisfactory reference.

E. W. BREED, 94 Prescott St., Clinton, Mass.

CARNATIONS — Rooted Cuttings

	Per 100	Per 1000
LAWSON	\$1.50	\$12.00
ENCHANTRESS	2.00	15.00
QUEEN	1.50	12.00
RED LAWSON	2.00	15.00
ROBERT CRAIG	6.00	

WARWICK GREENHOUSES
James Burke, Mgr. WARWICK NECK, R.I.

SOUTHERN WILD SMILAX

We are booking orders now for future delivery for Fancy Holly and Beaven's Fadeless Sheet Moss. Write for Samples. E. A. BEAVEN, Evergreen, Ala.

OBITUARY.

Mrs. George Burton.

The joyful Christmas-tide was sadly marred in Wyndmoor, Pa., this year. The usual merry gatherings—families, relatives and friends, so conspicuous a feature of the community in years past—were turned to mourning this year on account of the death on Christmas Day of Mrs. George Burton. The funeral will be held on Saturday. The sympathy of all goes out to the sorrowing family in this hour of bereavement. When the old are laid with their fathers in eternal rest, is one thing; when the young and good go before their time, is another; and it wrings the heart strings correspondingly. Everything good that can be said about the devoted woman, wife and mother, belongs in rich measure to the dear departed. Especially are our sympathies due to Mr. Burton and the children. We cannot say less; to say more were needless. Requiescat in pace.

Albert Woltemate, a well-known florist of Germantown, Pa., passed away on December 17th. Heart disease was thought to have been the cause. Mr. Woltemate was a very popular man, a member of the Pennsylvania Horticultural Society and Germantown Horticultural Society. In the latter society he was an earnest worker. He is survived by a widow.

John Winship, aged 87, died on December 15, at Philadelphia. He was a native of Newcastle-on-Tyne but had spent nearly fifty years in this country and acquired an enviable reputation as a grower of greenhouse plants.

George H. Lamberson, secretary of the State Board of Horticulture, died on December 4 at his home in Portland, Ore.

Isaac Rogers, for many years a florist at Long Branch, N. J., died on Dec. 14 at Trenton, aged 60.

John W. Wielandy, aged 76, of Santa Fe, N. M., died at St. James, Mo.

NEWS NOTES.

R. W. Zobel has opened a retail store at 518 Broadway, Albany, N. Y.

A. J. Boothman has opened a retail store in the Tanner block, Adams, Mass.

A greenhouse belonging to Mr. Schrader of Bull's Head, N. Y., was totally destroyed by fire on Dec. 15.

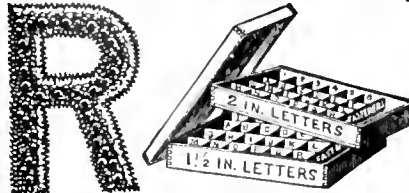
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Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers

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Long Stem, good Flowers, for delivery
NEW YEAR'S and later

\$15.00, \$25.00 and \$35.00 per 100

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1217 Arch St., PHILA.

Store open from 7 A. M. to 8 P. M.

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ROSES				
Am. Beauty, Fan. & Sp.	50.00 to 60.00 to	60.00 to 75.00	50.00 to 75.00
" Extra.....	25.00 to 35.00 to	40.00 to 50.00	35.00 to 50.00
" No. 1.....	10.00 to 15.00	..... to	33.00 to 35.00	12.00 to 25.00
" Lower grades.....	6.00 to 8.00	..... to	15.00 to 25.00	8.00 to 12.00
Bride, 'Maid, Golden Gate, F. & S.	12.00 to 15.00	..... to	12.00 to 15.00	16.00 to 25.00
" " Ordinary.....	4.00 to 6.00	..... to	6.00 to 10.00	6.00 to 12.00
Liberty, Richmond, Fan & Sp.	12.00 to 15.00	..... to	18.00 to 20.00	25.00 to 40.00
" " Ordinary.....	4.00 to 6.00	..... to	6.00 to 12.00	6.00 to 15.00
Chateaux, Fan. & Sp.	15.00 to 18.00	..... to	12.00 to 15.00	12.00 to 20.00
" Ordinary.....	6.00 to 8.00	..... to	6.00 to 8.00	6.00 to 12.00
Killaroe, Fan. & Sp.	15.00 to 18.00	..... to	12.00 to 15.00	8.00 to 20.00
" Ordinary.....	6.00 to 8.00	..... to	6.00 to 8.00	6.00 to 8.00
CARNATIONS				
Fancy.....	6.00 to 8.00	..... to	8.00 to 10.00	4.00 to 7.00
Ordinary.....	4.00 to 5.00	..... to	4.00 to 6.00	2.00 to 4.00
MISCELLANEOUS				
Cattleyas.....	50.00 to .....	..... to .....	..... to 75.00	50.00 to 75.00
Lilies, Callas.....	15.00 to 18.00	..... to	15.00 to	12.00 to 16.00
Violets.....	1.50 to 2.00	..... to	1.00 to 1.50	.75 to 1.00
Gardenias.....	..... to .....	..... to .....	..... to 75.00	..... to
Lily of the Valley.....	4.00 to 5.00	..... to	3.00 to 5.00	3.00 to 5.00
Nigmonette.....	3.00 to 4.00	..... to	3.00 to 4.00	1.00 to 2.00
Paper White, Roman Hy.....	3.00 to 4.00	..... to	3.00 to 4.00	2.00 to 3.00
Adiantum Cuneatum.....	1.00 to .....	..... to .....	.75 to 1.00	.50 to 1.00
Croweanum.....	..... to 1.50	..... to .....	..... to 1.50	1.00 to 1.50
Smilax.....	..... to 12.50	..... to	12.50 to 15.00	12.00 to 16.00
Asparagus Plumosus, strigis..... to 50.00 to to 50.00 to 50.00
" & Sprenger bunches	35.00 to 50.00 to to 50.00	30.00 to 50.00

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Place your orders early for rooted cuttings. Prices \$6 per 100, \$50.00 per 1000. DISCOUNT FOR CASH WITH ORDER

CHRISTMAS MARKET REPORTS

BOSTON Boston's Christmas trade was undoubtedly the heaviest on record. It was not so conveniently handled as on some past occasions for the weather all through the preceding week was such that buyers put off ordering until the last, and Monday saw an unprecedented crush in the various retail stores. On the other hand the wholesalers found the moderate temperature conducive to simple packing and complaints of frozen flowers were rare. The demand for all classes of material, colored flowers particularly, was much greater than that of a year ago and, as predicted by HORTICULTURE, prices were higher on some things than for many years—so much so that out-of-town florists could not do much more than get the cost out of flowers purchased on the wholesale markets. Naturally there was more or less protest but it availed not. Carnations in colors sold all the way from \$1 to \$10 per 100 according to quality, while the whites brought from \$3 to \$6. American Beauty roses ranged all the way from \$8 to \$100, and the market was very strong on Brides and Bridesmaids which brought from \$1 to \$25, and Richmonds which ran from \$8 to \$60, the latter rivalling American Beauty in size and finish. Violets were strong on Saturday, but on Monday experienced a setback. The market was unexpectedly good on Harrisii lilies and lily of the valley, and very weak on smilax, adiantum, stelia and chrysanthemums. The trade on evergreens far surpassed that of other years, holly especially finding an enormous sale. Plants made a record also. Poinsettias, Lorraine begonias and azaleas were the main stock but there was a fair sprinkling of other things. Very little adornment was attempted, but pot covers and baskets sold well. When the smoke had cleared away it developed that there were many violets left over in the retailers' hands and white carnations in the wholesalers' stock and that azaleas, in large sizes especially, were still to be found in quantity in most of the stores.

BUFFALO The market up to tonight (Monday) is pretty well cleaned up on everything. Flowers of all kinds sold at a rapid rate and good prices prevailed all along the line. Holly and all greens sold out clean. Full report next week.

COLUMBUS At this writing it is only possible to forecast the outcome of our Christmas business, but I feel safe to say, that if the craft here as a whole call it, after Monday's business, an average holiday trade that everybody under the combined unfavorable circumstances will be fairly well satisfied. The greatest clog to a large business has been the very high rates

of the growers for everything in the line of cut flowers; when the retailer must demand up to \$21.00 a dozen for American Beauty roses, \$2.00 a dozen for carnations, and everything else at a proportionate price, the great rank and file buy very sparingly. Again, the weather the past week has been simply atrocious. And still again, potted plants of all kinds are only fair in quality. I will report fully next week.

INDIANAPOLIS The usual dull business the week preceding Christmas prevailed. A few transient orders constituted about all the business done. All the stores made big preparations for Christmas trade. There are certainly two or three times the number of azaleas to be seen and many more poinsettias than in previous years, while all the varieties of ferns and decorative plants are very prominent. So far, trade in Christmas greens has been brisk, nothing scarce up to the present time. Holly is especially fine and selling well.

NEW YORK The volume of Christmas cut flower sales at wholesale in this market were very large but it is doubtful if the total equalled that of Christmas, 1905. As a whole the cut flower business was disappointing to many who looked for a complete sweep, as only a few lines were entirely exhausted by the demand. A convincing explanation is not easy to find; the uncomfortable weather may have contributed; it may be that the medium-priced buyer, who is really the great consumer, was scared off until too late by the prices quoted by dealers just previous to the holiday; also there is no doubt that the retailer bent his best energies to the disposal of plants, of which all had an enormous stock, and took advance orders for cut flowers only when such were proffered or when a plant sale could not be manipulated as a substitute. The predictions made last week that the supply of roses would be light were not verified. It is true that the growers shipping American Beauty roses regularly to the New York market were able to supply only a very small cut but the high local quotations attracted large shipments from Pennsylvania and by Monday it became evident that there would be more than a sufficiency of roses of all kinds and top prices were not maintained in all cases. Brides and Bridesmaids lingered and, finally, as the day wore on concessions from opening prices were freely offered but buyers were wary and a considerable number remained unsold in the hands of the wholesale dealers. Brides, particularly the higher grades, were not in request but this was to have been expected. Killarney was the great leader in the pink rose class

and good price prevailed except on stock where color was taken. Liberty and Richmond also showed an excellent call but there was enough for all. The cut of carnation was not exceptionally heavy but though the quality was very fine they did not move readily as a rule. Of course, the bright reds were well cleaned up at top quoted figures but Enchantress did not prove a good seller and many of these were left unsold in fact, some of almost every variety were represented among the left-overs. Cattleyas and gardenias sold well at good figures. There were few violets on hand at the close of business, Tuesday and, considering the cold weather, may be said to have done well, owing probably to the moderate selling price, which kept them moving. Poinsettias, hyacinths, narcissi, green stock, stelia, magnonette, etc., were all too plentiful.

The plant trade was tremendous. It began in earnest several days ahead of Christmas and never before has the material been of so choice a character. It may also be said, truthfully, that never before has it been offered in such artistic and altogether attractive shape. There was a noticeable falling off in the quantity of primulas, cyclamens and other small plant stock and an increase in size and number of cattleyas, orange trees, dracenas and crotons. Many things such as Dracena Godseottiana, for instance, heretofore seldom seen in commercial abundance were used in the makeup of fancy hampers and jardinières. Ericas were magnificent, so were Lorraine begonias. Poinsettias from three inches to three feet were everywhere. Azaleas were hardly in the same abundance as last year but, as a rule, they were of the irregular branched type, preferable to the flat-topped style of past seasons and were well-flowered. The most favored receptacles for plant arrangements were braid hampers and Venetian zinc lined boxes, made of plaster of paris in good imitation of old discolored marble. Combinations such as papilio cyclamens and pink Japan lilies cypripediums and violets, looked beautiful in these receptacles, with a sash of ribbon of appropriate color. Practically nothing was sent out without more or less ribbon and lace adornment but the artificial decoration was usually done with exquisite taste and the leading stores were thronged with people many of whom were attracted simply to admire, by the gorgeous display of trimmed plants which filled the windows and towered from floor to ceiling on temporary stagings which filled every available foot of space. A good many plants are still in retailers' hands but they are mostly standard stock and do not represent any proportionate loss.

(For other markets see page 733)

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Dec. 22 1906	First Half of Week beginning Dec. 24 1906		Last Half of Week ending Dec. 22 1906	First Half of Week beginning Dec. 24 1906
Roses			Carnations, Ordinary	3.00 to 4.00	3.00 to 5.00
Am. Beauty, Ian and sp.	75.00 to 100.00	100.00 to 150.00	Cattleyas	..... to 75.00	50.00 to 75.00
" extra	35.00 to 50.00	75.00 to 100.00	Lilies	.75 to 1.50	.75 to 1.75
" No. 1	15.00 to 25.00	25.00 to 75.00	Lilies, Callas	..... to 20.00	..... to 20.00
" Lower grades	3.00 to 8.00	3.00 to 15.00	Gardenias	75.00 to 100.00	75.00 to 125.00
Bride, 'Maid, Golden Gate, Ian & sp	15.00 to 25.00	12.00 to 30.00	Lily of the Valley	3.00 to 4.00	3.00 to 6.00
" ordinary	3.00 to 8.00	4.00 to 8.00	Pignonette	3.00 to 8.00	2.00 to 8.00
Liberty, Richmond, fancy & special	15.00 to 25.00	25.00 to 75.00	Paper White, Roman Hy.	..... to 2.00	2.00 to 3.00
" ordinary	3.00 to 10.00	4.00 to 15.00	Adiantum Cuneatum	.50 to .75	.75 to 1.00
Chatenay fancy and special	15.00 to 20.00	20.00 to 10.00	" Croweanum	..... to .....	..... to 1.50
" ordinary	3.00 to 8.00	4.00 to 10.00	Smilax	10.00 to 12.00	12.00 to 16.00
Kil'arney, fancy and special	15.00 to 20.00	20.00 to 35.00	Asparagus Plumosus, strings	25.00 to 35.00	25.00 to 35.00
" ordinary	3.00 to 8.00	4.00 to 12.00	" & Sprengert, bunches	15.00 to 25.00	15.00 to 25.00
Carnations, Fancy	6.00 to 15.00	8.00 to 20.00			

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" Extra	75.00 to	75.00 to	30.00 to	60.00	75.00 to	100.00
" No. 1	40.00 to	50.00	25.00 to	25.00	50.00 to
" Lower grade	15.00 to	20.00	10.00 to	15.00	20.00	25.00
Bride, Maid, Golden Gate, F. & S.	15.00 to	12.00	18.00 to	18.00	18.00 to	.....
" Ordinary	6.00 to	8.00	6.00 to	10.00	4.00 to	15.00
Liberty, Richmond, Fan, & Sp.	12.00 to	15.00	11.00 to	18.00	10.00 to	40.00
" Ordinary	5.00 to	10.00	6.00 to	10.00	8.00	10.00
Chatenay, Fancy	12.00 to	15.00	12.00 to	15.00	10.00 to	15.00
" Ordinary	8.00 to	10.00	6.00 to	10.00	8.00	8.00
Killsbrey, Fan & Sp.	10.00 to	10.00	10.00 to	10.00	10.00 to	25.00
" Ordinary	10.00 to	10.00	10.00 to	10.00	8.00	10.00

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Fancy	6.00 to	8.00	1.00 to	8.00	5.00 to	15.00	8.00 to	10.00
Ordinary	3.00 to	5.00	3.00 to	4.00	3.00 to	5.00	4.00 to	6.00

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Lilies, Callas	to	15.00	15.00 to	20.00	15.00 to	20.00
Violets	1.00 to	3.00	2.00 to	2.50	2.00 to	3.00
Gardenias	to	4.00	to	.....	to	.....
Lily of the Valley	3.00 to	4.00	4.00 to	5.00	3.00 to	5.00
Mignonette	to	3.00	to	8.00	4.00 to	6.00
Paper White, Roman Hy.	3.00 to	4.00	3.00 to	4.00	3.00 to	4.00
Adiantum Cuneatum	to	1.00	1.00 to	1.50	1.50 to	1.00
" Crownatum	to	1.00	to	1.50	1.00 to	1.50
Smilax	12.50 to	15.00	12.50 to	15.00	15.00 to	15.00
Asparagus Plumosus, strings ..	40.00 to	50.00	40.00 to	75.00	40.00 to	50.00
" & Sprengeri, bunches ..	25.00 to	35.00	20.00 to	30.00	35.00 to	50.00

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Julius Roehrs, Rutherford, N. J.
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DRACAENAS.

Dracaena terminalis from bench, fine \$25.00 100. Carl Hagenburger, West Mentor, Ohio.

FERNS.

A. Leuthy & Co., Roslindale, Mass.
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H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Whitman.
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H. N. Eaton, So. Sudbury, Mass.
Boston Ferns.
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Benj. Connell, West Grove, Pa.

F. R. Pierson Co., Tarrytown, N. Y.
Tarrytown Fern
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FLORAL PHOTOGRAPHS.

Floral Photographs. Foley's 226-228 1-2 Bowery New York.

FLORISTS' FERTILIZER.

Pulverized Manure Co., 31 Union Stock Yards, Chicago.
Sheep Manure, Wizard Brand.

?
Is Your Name In The Above List? If Not, Why Not?
?

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston, Mass.
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G. A. Sutherland Co., 34 Hawley St., Boston, Mass.
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FLORISTS' SUPPLIES.

N. F. McCarthy & Co., 84 Hawley St., Boston, Mass.
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M. M. Roblison & Co., 811 Province St., Boston, Mass.
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The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
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Reed & Keller, 122 W. 25th St., New York.
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J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
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J. Stern & Co., 1928 Germantown Ave., Philadelphia
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H. Bayersdorfer & Co., 1129 Arch St., Philadelphia.
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FLORISTS' WAGONS.

Edward Higgins, 1 W. 28th St., N. Y.
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FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
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Fred C. Weber, 4323-28 Olive St., St. Louis, Mo.
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J. Brettmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
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Thos. Young, Jr., 41 W. 28th St., New York
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Eyres, 11 N. Pearl St., Albany, N. Y.
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George H. Cooke, Washington, D. C.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Young & Nugent, 42 W. 28th St., New York.
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Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Av. & 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.
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FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.
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A. H. Hews & Co., Cambridge, Mass.
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Hilfinger Bros., Ft. Edward, N. Y.
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Syracuse Red Pots.

Syracuse Pottery Co., Syracuse, N. Y.
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GALAX.

N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Robinson & Co., 811 Province St., Boston.
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Michigan Cut Flower Co., Detroit.
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N. Leakes & Co., 53 W. 28th St., N. Y.
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GLADIOLI.

Arthur Cooper, Meadowdale, Pa.
N. Y.
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GLASS.

Boston Plate & Window Glass Co., Boston.
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GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
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GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square, New York.
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Hitchings & Co., 1170 Broadway, New York.
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A. T. Stearns Lumber Co., Neponset, Boston.
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King Construction Co., N. Tonawanda, N. Y.
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J. C. Moulger Co., 117 East Blackhawk St., Chicago, Ill.
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Weathered Co., Box 789, New York.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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HARDY FERNS AND SUPPLIES.

N. F. McCarthy & Co., 84 Hawley St., Boston.
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H. M. Robinson & Co., 811 Province St., Boston, Mass.
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The Kervan Co., 20 W. 27th St., New York.
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Michigan Cut Flower Co., 38 and 40 Miami Ave., Detroit, Mich., Wm. Dilger, Mgr.
Fancy Ferns
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E. A. Beaven, Evergreen, Ala.
Endless Sheet Moss.
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N. Leakes & Co., 53 W. 28th St., N. Y.
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HARDY PERENNIALS.

M. H. Walsh, Woods Hole, Mass.
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HEATING APPARATUS.

Lord & Burnham Co., 1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Square, New York.
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Hitchings & Co., 1170 Broadway, New York.
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John A. Scollay, 73 & 75 Myrtle Ave., Brooklyn, N. Y.
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Gurney Heater Mfg. Co., 188-200 Franklin St., Cor. Pearl, Boston, Mass.
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Kroeschell Bros., 35 Erie St., Chicago.
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HORICUM.

Hammond's P. & S. S. Works, Fishkill-on-Hudson, N. Y.
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HOT-BED SASH.

The A. T. Stearns Lumber Co., Neponset, Mass.
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Hitchings & Co., 1170 Broadway, N. Y.
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Lord & Burnham Co., 1133 Broadway, N. Y.
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JAPANESE PLANTS.

Kobama, 1000 Broadway, N. Y.
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KENTIAS.

Godfrey A. ..., 200 ...
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A. Lenthy & Co., Roslindale, Mass.
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LEADING RETAIL FLORISTS.

Alex. McConnell, New York.
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Thomas Young, Jr., New York.
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Fred C. Weber, 4323 Olive St., St. Louis, Mo.
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J. Brettmeyer's Sons, Detroit, Mich.
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George H. Cooke, Washington, D. C.
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Samuel Murray, 1017 Broadway, Kansas City, Mo.
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Gude Bros. Co., 1214 F St., Washington, D. C.
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Eyres, 11 N. Pearl St., Albany, N. Y.
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Young & Nugent, 42 W. 28 St., New York.
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Mills, the Florist, Jacksonville, Fla.
Telegraph or mail orders promptly filled.
Long distance telephone connections.

Theodore Miller, 4832 Delmar Bvd., St. Louis, Mo.
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P. J. Hauswirth (temporary address) 13 Congress St., Chicago.
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William J. Smyth, Michigan Av. & 31st St., Chicago.
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Wm. H. Rock Flower Co., Kansas City, Mo.
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Park Floral Co., Denver, Colo.
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MANETTI ROSE STOCK.

Thos. Meehan & Co., Inc., Dreshertown, Pa.
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MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co., 911 Chemical Bldg., St. Louis, Mo.
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NICO-FUME.

Ky. Tobacco Product Co., Louisville, Ky.

NICOTEEEN APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.
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NURSERY STOCK.

John Waterer & Sons, Ltd., Amerham Nursery, Banshot, England.
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Cottage Gardens Co., Queens, N. Y.
Specimen Nursery Stock.
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ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
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Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
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Julius Roehra Co., Rutherford, N. J.
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Carillo & Baldwin, Secaucus, N. J.
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A. Held, 1119 William St., New York.
Orchids for Spring Delivery.
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PALMS.

A. Lenthy & Co., Roslindale, Mass.
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PATENTS.

Siggers & Siggers, Washington, D. C.
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PEONIES.

Edward Swayne, West Chester, Pa.
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POT HANGERS.

Pot hangers, Kramer's \$1 doz. by exp.
\$1.25 by mail. I. N. Kramer & Son, Cedar
Rapids, Ia.

PRUNING SHEARS.

Rhodes Mfg. Co., Grand Rapids, Mich.
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RHODODENDRONS.

John Waterer & Sons, Ltd., American
Nursery, Bagshot, Eng.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Rosea and Ramblera.
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E. H. Pye, Upper Nyack, N. Y.
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Benj. Connell, West Grove, Pa.
Crimson Ramblera.

Bassett & Washburn, Hinsdale, Ill.
Rooted Cuttings of Kaiserla, Pres. Carnot,
La Detroit.
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Paul Niehoff, Leighton, Pa.
Rose Aurora
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Baby Rambler roses, fine dormant stock,
one year, \$12 per 100, 2 1/4 in. pot plants,
extra well rooted, \$4 per 100, \$30 per M.
Orders booked for delivery now or any
time up to the late spring. Samples free.
Brown Brothers Company, Rochester, N. Y.

SEEDS.

T. J. Grey & Co., 32 So. Market St.
Boston, Mass.
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Joseph Breck & Sons,
51 and 52 N. Market St., Boston, Mass.
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W. Atlee Burpee & Co., Philadelphia.
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J. M. Thorburn & Co.,
33 Barclay St., New York.
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A. T. Boddington, 342 W. 14th St., N. Y.
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H. F. Mitchell Co., 1017 Market St.
Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Grass Seed Mixtures.
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James Vick's Sons, Rochester, N. Y.
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W. W. Rawson & Co., 5 Union St., Boston.
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Hjlsmar Hartmann & Co.,
12 Stormgade, Copenhagen, Denmark.
Cauliflower and Cabbage Seed.
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Rickards Bros., 37 East 19th St. New York.
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Johnson Seed Co., 217 Market Street,
Philadelphia.
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Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and
Tree Seeds.

SHEEP MANURE.

Pulverized Manure Co.,
31 Union Stock Yards, Chicago.
Wizard Brand.

SHEET MOSS.

E. A. Beaven, Evergreen, Ala.
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SPHAGNUM MOSS.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. Lager &
Hurrell, Summit, N. J.

Fresh, clean, 5 lb. bale, \$1.25; 2 bales,
\$2.25; 5 bales, \$5.00; 10 bales, \$9.50. Cash
I. B. Abers, Chatsworth, N. J.

SPIRAEA.

J. M. Thorburn & Co., New York.
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H. F. Mitchell Co., Philadelphia.
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F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
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STEAM TRAP.

E. Hippard, Youngstown, O.

TOMATO SEEDS.

Wm. Slm, Cliftondale, Mass.
Comet Tomato.
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VENTILATING APPARATUS.

Lord & Burnham Co.,
1133 Broadway, New York.
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Pierson U-Bar Co., 1 Madison Sq., N. Y.
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Hitchings & Co., 1170 Broadway, N. Y.
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John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
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Weathered Co., 46 and 48 Marlon St., N. Y.
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Foley Mfg. Co., 471 W. 22nd St., Chicago.
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J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.
The Chicago Lifter.

VIOLETS.

H. K. Carlton, Willoughby, O.
Violet, Gov. Herrick.
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WILD SMILAX.

E. A. Beaven, Evergreen, Ala.
Southern Smilax.
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WIREWORK.

Reed & Keller, 122 W. 25th St., New York.
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Wirework. Write for our catalogue.
Holton & Hunkel Co., Milwaukee, Wis.

The "Just Right" kind. Send for price
list. Frank W. Ball, 31 East Third Street,
Cincinnati, O.

WHOLESALE FLORISTS.

Boston.

N. F. McCarthy & Co., 84 Hawley St.,
Boston.
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H. M. Robinson & Co., 15 Province St.,
Boston.
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George A. Sutherland Co., 34 Hawley St.,
Boston.
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Welch Bros., 226 Devonshire St., Boston.
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Buffalo.

Wm. F. Kasting, 383-87 Ellcott St., Buf-
falo, N. Y.
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Chicago.

Chas. W. McKellar, 51 Wabash Av., Chicago.
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Peter Reinberg, 51 Wabash Av., Chicago.
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A. L. Randall Co., 19-21 Randolph St.,
Chicago.
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E. F. Winterson Co., 45-49 Wabash Av.,
Chicago.
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Fourman Bros. Co., 35 Randolph St.,
Chicago.
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Detroit.

Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Dilger, mgr.
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WHOLESALE FLORISTS—Continued
New York.

J. K. Allen, 106 W. 25th St., New York.
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Wm. Stuart Allen Co., 53 W. 25th St.,
New York.
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C. W. Eberman, 53 W. 30th St., New York.
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J. S. Fenrich, 110 W. 28th St., New York.
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Ford Bros., 48 West 28th St., New York.
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H. E. Froment, 57 W. 28th St., New York.
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Alex. J. Guttman, 43 West 28th St.
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E. C. Horan, 55 West 28th St., New York.
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Philip F. Kessler, 55 W. 26th St., New York.
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A. H. Langjahr, 55 W. 28th St., New York.
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James McManus, 42 W. 28th St., New York.
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Chas. Millang, 50 West 29th St., New York.
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Frank Millang, 55-57 W. 26th St., New
York.
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John I. Raynor, 49 W. 28th St., New York.
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W. F. Sheridan, 39 W. 28th St., New York.
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Trendly & Schenck, 44 W. 28th St., New
York.
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Hicks & Crawbuck, Inc., 76 and 78 Court
St. Brooklyn, N. Y.
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A. L. Young & Co., 54 W. 28th St., N. Y.
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John Young, 51 W. 28th St., New York.
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Philadelphia.

W. E. McKissick, 1221 Filbert St., Phila-
delphia, Pa.
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Leo Nlessen Co., 1217 Arch St., Phila-
delphia, Pa.
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The S. S. Pennock-Meehan Co., 1608-18
Ludlow St., Philadelphia, Pa.
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Edward Reid, 1526 Rantead St., Philadel-
phia, Pa.
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Pittsburg.

J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.
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Pittsburg Florists' Exchange, 228 Diamond
St., Pittsburg, Pa.
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New Offers in This Issue.

**CARNATIONS ARISTOCRAT AND
RED RIDING HOOD.**

Chicago Carnation Co., Joliet, Ill.
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CARNATIONS ROOTED CUTTINGS.

Warwick Greenhouses, Warwick Neck, R. I.
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FERNS.

E. W. Breed, 94 Prescott St., Clinton,
Mass.
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**GERANIUM WHOLESALE CATA-
LOGUE.**

R. Vincent, Jr. & Son, White Marsh, Md.
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IMMORTELLE LETTERS.

W. C. Krick, 1164 66 Green Ave., Brooklyn.
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JAPAN LILIES.

Johnson Seed Co., Philadelphia.
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ORCHIDS, IMPORTATION 1907.

Julius Roehrs Co., Rutherford, N. J.
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**PHLOX DRUMMONDII, SALVIA,
VERBENA, VINCA SEED.**

Henry E. Mitchell Co., Philadelphia.
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CALIFORNIA NOTES.

A month before San Francisco's epochal event of the year it was noted in HORTICULTURE that Professor George Compere, a noted entomologist of the State University, had gone abroad in search of parasites of the red and purple scales, to destroy which by fumigation the citrus growers of the state have been and now are spending more than \$250,000 annually. He returned this week on a Japanese liner, bringing with him a few thousand tiny flies that he found in China at the home of the red and purple scales. These flies are internal parasites, and from them Compere expects to breed enough to rid the citrus belt of the harmful scales. He also brought with him a collection of ferocious aphid-eating ladybugs for distribution in California orchards. Compere left New York March 1 of this year and visited France, Spain, Algiers, Italy, Australia, China, Ceylon, India and Japan.

Professor E. J. Wickson, dean of the State College of Horticulture, also returned this week from a trip to Hanford, California, where he attended the convention of the fruit growers of the state, before whom he read a paper on "The Horticultural Uses of the University Farm." His description of the horticultural features that will be created on the new university farm was as follows:

First—It will have standard orchards of all fruits and varieties, a source of material for wise pomological studies as well as court of last resort for all questions of identification and nomenclature; also be a source of cuttings and scions necessary to test these questions locally whenever issues arise.

Second—Aside from these standard collections there will be commercial orchards of variety to demonstrate the best methods of handling in actual practice the trees and fruits which they bear. At times each year any one interested can go to the farm to learn pruning, spraying, fumigating, irrigation and all other practical arts of culture, and other times when fruit picking, drying, etc., will be demonstrated.

Third—There will be a full outfit of buildings for the different methods of fruit preservation and all operations will be actually performed and taught.

Fourth—The growth of vegetables will be undertaken on a commercial basis, both under rainfall and irrigation, and variety tests will also be constantly in progress. Forcing operations will be provided for.

Fifth—Methods of propagation of trees and plants will be constantly pursued for instructional purposes and as introductory to nursery practice with all classes of growths—ornamentals, fruit trees and forestry plantings.

Sixth Plant protection, to be secured by an understanding of the various injurious insects and plant diseases and the best ways to cope with them or to avoid them, will be amply demonstrated and inculcated.

Seventh—There will be constant research and experiment work in pomology, plant breeding, protection from pests and diseases, all of which will constitute horticultural uses of the farm and be effective not only in advanced instruction, but in the promotion of horticultural science.

CRAFT AND CRAFTSMAN.

AN ADDRESS BY E. J. WICKSON, DEAN OF THE STATE COLLEGE OF HORTICULTURE, AT THE UNIVERSITY FARM, HANFORD, CALIF.,

Some men succeed in every business and every legitimate avocation, while some others do not succeed in those same pursuits, under equally favorable conditions. The difference, therefore, between success and failure does not necessarily lie in the craft but in the craftsman himself. And it is equally true that no man, however successful he may be, or may have been, in one department of our many-sided activities, will succeed equally well in every other, or any other.

It is, then, of the greatest importance, that every man selects for his craft that which he likes, and likes because of his adaptability thereto. It is my good fortune this evening to address a company of gentlemen who have chosen their craft and are in the earnest pursuit of it. The production of fruits, vegetables and flowers, the decoration of the home, the lawn and the landscape, is an avocation worthy of the best there is in the best of men.

Your field is broad—so broad that the man has not yet been born who can say, with any approximation to truthfulness, he has mastered it. This fact alone makes your calling one of peculiar interest to a thoughtful man. Mother Earth is so full of mystery, and delights so often in doing the unexpected, that one is kept ever on the alert. He knows that the unexpected is sure to happen. Then again Nature guards so jealously the citadel to her secrets that only observing mortals are allowed to profit from her. The wisest of men succeed only by the most careful observation and practical, persistent application. Every plant has its own peculiarities,—it will succeed in one soil and will not in another. Nothing is more capricious than a living plant, and the higher the order, the more exacting its demands. Hence the soil, the temperature and all the conditions that have to do with the plant, must be reckoned with before the actual work of production has begun. The man who does not carefully consider this feature of his problem, acts the part of the man who builds his house upon the sand, without giving due regard to the foundation thereof. Disastrous consequences are sure to follow.

The time was, when people in general thought that the boy who was stupid in his books, not capable of making a lawyer, or a doctor, or a minister would do to make a cultivator of the soil. But the time has come when men realize that it takes as good brains to compel nature to give her best, as to do anything else that is worth the doing. It is one thing to cultivate the soil, it is quite another to compel nature to do her best. How much of human history may be connected with the product of a single seed? The little acorn that you thoughtlessly throw into the soil may bring forth a plant that shall grow for a hundred years; men may come for generations to it for shelter and protection. It then may have attained such proportions that it will serve as a keel to a great vessel that does business in all the seas, among the nations.

(To be continued.)

CHRISTMAS MARKET REPORTS.

NEWPORT—Local florists reported that the Christmas plant market was about twenty per cent higher than was obtained last year, but of course, as the quality was much superior, the extra cost to purchasers was more apparent than real. Nearly all the choice Christmas plants came from out-of-town growers and the fact that a good demand existed for such stock ought to convince local growers that if they could be induced to grow the like there would be a profit in the business. Lorraine begonias had first call and they were well worthy of it. Begonia Turnford Hall appeared in one or two small lots, but it was well received, and there is promise of a good future for it; poinsettias were again favorites. Cyclamens were excellent and sold readily. Azaleas showed up in good condition and were cleared out early. Solanums were in fair condition. Primulas were small but sold fairly well. Ardisias were of better quality than I have seen in many years. Carnations were in good supply. Roses were also good and sold well. There were some excellent Harrisii lilies in; they sold at from \$2.00 to \$3.00 per dozen.

PHILADELPHIA—Christmas trade in Philadelphia while good cannot be said to have exceeded the normal. There was no glut and no special scarcity in any line. Orders were filled in nearly every instance more or less satisfactorily. Night work with the wholesale shipping houses on Saturday, Sunday and Monday was the rule as usual and all are now glad the rush is over. Orchids were perhaps the scarcest article on the list. Among the retail houses the briskest demand was on decorated plants and "made-up" baskets with ornamental designs and fixings—the rustic and herbiboned predominating. In the latter it taxed the resources of most of the dealers to get help enough to do this making-up. They simply had to stop it, and put all hands on the general business. Many novel and elegant basket designs were in evidence. Cyclamens were not as well flowered as usual. Azaleas were fine, as were also poinsettias and dracaenas. We saw no really striking novelty around in the plant line. Berried plants, such as anemans, skimmias, hollies, etc., were plentiful and in good demand.

LOS ANGELES NEWS.

It appears that Los Angeles is fast coming to the front with her up-to-date flower shops and magnificent displays of chrysanthemums, carnations, roses and other flowers to welcome her winter visitors.

Several changes and alterations are being made towards its advancement. A. E. Borden, who for several years was manager for the Redondo Floral Co., has gone into business for himself and has opened up a first-class floral store on West Third street.

J. W. Woltskill has just opened his new store on West Fourth st., which old time florists say is the finest this side of Chicago.

POT MAKERS FOR 140 YEARS
A. H. HEWES & Co. Inc. CAMBRIDGE, MASS.
 KIND EVERY OF WARE FLORIST

GREENHOUSE GLASS AND PRES- ENT TARIFF RELATION.

The printed report of the proceedings of the twenty-second annual convention of the Society of American Florists, held at Dayton, Ohio, last August, is now out and for the benefit of those who were not present at the meeting, they will find on pages 78 to 85, the action which was taken upon the discussion of President Kasting's address, relative to the cost of glass for greenhouse work.

It will be noticed in that report that it was suggested that the first step for practical results would be to find from the Committee on Ways and Means, what was likely to come up.

The Hon. Butler Ames, one of the Massachusetts Congressmen, stands as a leader and member in favor of tariff revision, and in reply to a letter addressed to him, as to what action would be likely to be taken upon revision by those who favored such course, he makes his reply as follows:

House of Representatives U. S.,
 Washington, D. C., Dec. 8, 1906.

Benjamin Hammond,
 Fishkill-on-Hudson, N. Y.
 Dear Sir: Congressman Ames wished me to acknowledge receipt of your letter of the 6th instant with its enclosure in reference to the proposed revision of the tariff, and to say in reply that this matter has not yet reached a point where the majority of this Congress have indicated that they are favorable to a revision.

Yours respectfully,
 J. A. LEGARE,
 Private Secretary.

It will thus be seen from the letter received from the Chairman of the Committee of Ways and Means of the House of Representatives, already published, and this letter above, that there is no expectation of any real work being done at the present session of Congress. What may develop during the winter, which will lead up to an extra session next year, remains yet to be seen, but there is no doubt but what if the florists as a body will stand together, that their collective influence would have much weight.

BENJAMIN HAMMOND

GREENHOUSES BUILDING AND PROJECTED.

New.

Cheshire, Ct.—F. A. Ives, one house.
 Monroe, Mich.—Otto H. Cron, one house.

Additions.

Portsmouth, R. I.—Reginald Norman, one house.
 Traverse City, Mich.—Frank M. Paine, improvements.

Prof. Waldron and President Worst of the agricultural college at Fargo, N. D., will probably apply to the next legislature for an appropriation for two new greenhouses. They think \$5,000 will cover the bill.

LIST OF PATENTS.

Issued December 11, 1906.

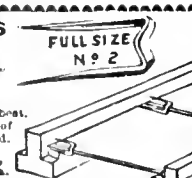
- 837,967. Heating Stove or Furnace. Fred A. Schlosser, Mansfield, Ohio.
 837,977. Transplanter. Ross S. Thornton, Lexington, Nebr.
 837,985. Draft-Equalizer. Archibald E. Walburn, Wichita, Iowa.
 837,986. Harrow Attachment for Plows. Willis Walker, Sedalia, Colo.
 838,036. Switch-Operating Device. Lewis W. Knowles, Augusta, Maine.
 838,100. Weeding Tool. James R. Gilbert, La Grange, Ill.
 838,116. Fruit Picker and Gatherer. Lyman S. Holmes, Schenharie, N. Y.
 838,193. Spraying Apparatus. Frederick Kocchel, New York, N. Y.
 838,199. Transplanter. Lewis Miller, Elwood, Ind.
 838,208. Adjustable Hose Rack. Charles Nuhring, Cincinnati, Ohio.
 838,229. Greenhouse. John Wilson, Short Hills, N. J., and Samuel O. Hoyt, Brooklyn, N. Y.
 838,248. Ventilator. James H. Fulton, Hanlin Station, Pa.
 838,345. Combined Seed Planter. Joseph W. Little, West Point, Miss.

Issued December 18, 1906.

- 838,521. Rotary Cutter for Lawn-Mowers. Adelbert B. Case, Springfield, Mass.
 838,585. Reversible Window Sash. Jefferson G. Robbe, Canon City, Colo., assignor to William P. Nelan, Denver, Colo.
 838,856. Fertilizer Distributer. Edward L. Hahn, Muscatine, Iowa.
 838,904. Mowing Machine. George Robinson & George Cutsforth, Riddles, Oregon.
 838,947. Seeder. Melvin H. Brown- ing, Perry, Ill.
 838,990. Rake Clearer. Ubald B. Herbert and Harry J. Brown, Wallingford, Vt.

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

Holds Glass Firmly
 See the Point
PEERLESS
 Glazing Points are the best. No rights or lifts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
 714 Chestnut St., Phila., Pa.



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WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order.

FLORISTS' WAGONS FOR SALE

Three florists' open wagons, three florists' top wagons and three sets of harnesses. Can be seen at 1 West 28 St., New York.

EDWARD HICCINS.

FOR SALE—Greenhouse Pipe

4 in. boiler tubes, second hand, in fine condition, absolutely free from scale and with ends cut square. Sample and prices on application. Kroeschell Bros. Co., 35 Erie St., Chicago.

FOR SALE—4,000 feet of glass. Thriving town of 4,000, 24 express trains daily. No competition; 50 miles from large greenhouse, new, Bargain. Investigate immediately. A. care HORTICULTURE, 11 Hamilton Place, Boston.

POSITIONS WANTED for head gardeners and assistants; for further information apply to W. W. Rawson & Co., 5 Union St., Boston, Mass.

SITUATION WANTED—Private place preferred as head gardener. Married; two children; good reference. A. N., care R. & J. Farquhar Co., Boston.

WANTED—200 Ulrich Brunner plants ready to put into house at once. State price and particulars. C. G., care HORTICULTURE, 9th and Market Sts., Phila.

WANTED—A first-class gardener as foreman of the greenhouses on an extensive private estate. Single man. Wages, \$65. Address with references L. care of HORTICULTURE, 11 Hamilton Place, Boston.

SALESMAN WANTED in wholesale commission trade. Good inducement to right party. Apply with full particulars as to experience, salary, etc., to "F." care HORTICULTURE, Dobson Building, 9th and Market Sts., Philadelphia. None but men of good habits need apply. Nothing fanatical implied in latter requirement—common sense only. All communications strictly confidential.

BOSTON PLATE & WINDOW GLASS CO.

GREENHOUSE GLASS

German and American

261 to 287 A St., BOSTON 20-22 Canal St.

Standard Flower.. POTs

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

W. H. ERNEST,

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

Look through the Buyers' Directory and Ready Reference Guide. You will find some good offers there also.

NIKOTEEN APHIS PUNK
 THE ORIGINAL AND GENUINE
NICOTINE FUMIGANT
 STRONGEST AND MOST UNIFORM

PRICE 60¢ PER BOX OF 12 LONG SHEETS \$6.50 PER CASE OF 12 BOXES

NIKOTEEN LIQUID
 FOR SPRAYING OR VAPORIZING
 PRICE \$1.50 PER PINT BOTTLE \$13.00 PER CASE OF 10 PINT BOTTLES

NICOTINE MFG. CO. ST. LOUIS MO.

Ready Packed Pots Promptly Shipped

Our method in having **SYRACUSE RED POTS** packed in cases of our own construction allows prompt shipping and very little chance for breakage. Catalog tells—get one.

SYRACUSE POTTERY CO.
 Syracuse N. Y.

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Send other business direct to Washington. Saves time and assures better service. Personal attention guaranteed. Twenty-five years' active service. SPECIALTY: "Working on the Failures of Others."

SIGGERS & SIGGERS
 PATENT LAWYERS
 Box 9, National Union Building
 Washington, D. C.

STANDARD FLOWER POTS
 Packed in small crates, easy to handle.

Price per crate		Price per crate	
1500 2 in. pots in crate	\$4.85	120 7 in. pots in crate	\$4.20
1500 2 1/4 " " "	5.25	60 8 " " "	3.00
1500 3 " " "	6.00	HAND MADE	
1000 3 " " "	5.00	48 9 in. pots 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 " " "	4.16	12 14 " " "	4.80
		6 16 " " "	4.50

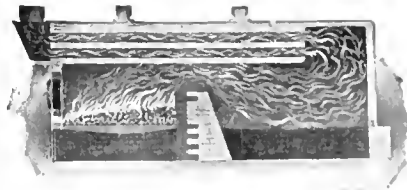
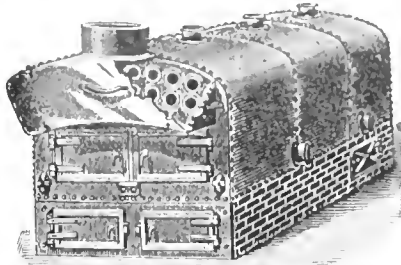
Seed pans, same price as pots. Send for price list of Cylinders for Cut Flowers, Hanging Baskets, Lawn Vases, etc. Ten percent. off for cash with order. Address **Hilfinger Bros., Pottery, Fort Edward, N. Y.** August Rolker & Sons, Agts., 31 Barclay St., N. Y. City.

RHODES DOUBLE CUT PRUNING SHEAR

Cuts from both sides of limb and does not bruise the bark.

RHODES MFG. CO.
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Kraeschell Bros. Co.
 Greenhouse Boiler,
 35 Erie St., CHICAGO.



Boilers made of Steel Boiler Plate; shell, firebox sheets and heads of steel; water space all around front, sides and back. Write for information.

CYPRESS SASH BARS
 32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES
 ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices
The A. T. STEARNS LUMBER CO.
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WEATHERED COMPANY
 BOX 789, NEW YORK
GREENHOUSE BUILDING AND HEATING

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 SEND FOR CATALOGUE OF
SCOLLAY HOT WATER and STEAM BOILERS
JOHN A. SCOLLAY
 73 and 75 Myrtle Avenue
 BOROUGH OF BROOKLYN, N. Y. CITY

NOW IS THE TIME TO INSURE
 YOUR GLASS AGAINST DAMAGE
 BY HAIL. For particulars address
John G. Esler, Saddle River, N. J.

GURNEY HEATERS
 FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
 NEW YORK OFFICE 111 FIFTH AVE. 74 FRANKLIN ST. BOSTON

BOSTON OFFICE REMOVED TO 188-200 FRANKLIN ST., COR. PEARL.

LET IT STRIKE YOU

FOLEY MFG. CO. CHICAGO.
 471 W. 22ND ST. CHICAGO.

GREENHOUSE MATERIAL
 OF ALL KINDS
 INCLUDING APPARATUS
 FOR VENTILATING FITTINGS &c.

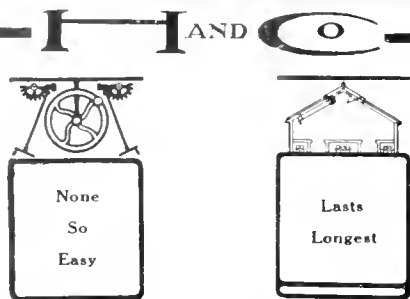
HOT-BED SASH
 SEND FOR FREE ILLUSTRATED CATALOGUE

If you are having delay in getting your roof material, send your orders TO US and don't be in trouble. We will handle any order in the time agreed. Try us.
FOLEY MANUFACTURING CO.,
 471 W. 22d Street, Chicago

RING CONSTRUCTION CO.
 GREENHOUSE CONSTRUCTION AND EQUIPMENT
 WRITE FOR CATALOGUE AND PRICES

GREENHOUSE CONSTRUCTION LUMBER
John C. Moninger Co.
 117 E. Blackhawk St., CHICAGO

Have You Read the Advertisements this Week?



ON THE LOOKOUT

The florist is a progressive chap — wants new things — things that give him an advantage over the man without them or makes competition possible with the man having them. But there are a few time-tried things that are so simple, so good, so sure, it costs you money and experience to change — our ventilating apparatus is one of these things — no criss-cross levers — no chains or cables — just the gear and arm principle. Easy to put up — easy to operate.

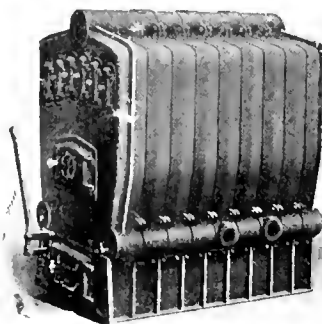
HITCHINGS AND CO.

GREENHOUSE DESIGNERS AND BUILDERS.

Manufacturers of Heating and Ventilating Apparatus.

1170 Broadway,

NEW YORK.



About Putting in Your Own Heating Plant

Yes, you perhaps will save a little at the first cost, but heating a greenhouse is not an ordinary plumber's proposition, it demands the skill of years — that is, if you want economy. By some little wrinkle such as knowing the exact grade to insure a positive flow, we might save dollars, and dollars. Say, it was only 15c a day — that means \$273.00 in five years. The question is, can you afford these local plumbers' experiments? Don't it pay to employ experts, people you know, know their business?

LORD & BURNHAM CO.

Greenhouse Designers and Manufacturers

1133 BROADWAY, cor. 26th Street, N. Y.

BOSTON Branch: 819 Tremont Building



HERE is what Thomas Proctor, Superintendent for R. W. Paterson, Lenox, Mass., says about U-Bar houses. "So far as the style of construction is concerned, I believe that the U-Bar type is as much superior to the very best type of the ordinary iron frame construction as the iron frame houses

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